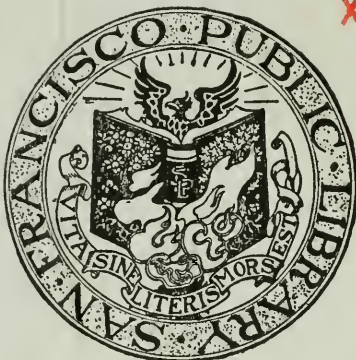


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SAN FRANCISCO, CALIF., JULY 5, 1930

Thirtieth Year, No. 27
Published Every Saturday



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Devoted to the Architectural, Building, Engineering and Industrial Activities on the Pacific Coast

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\$12,548,929 IS BUILDING EXPENDITURE IN SAN FRANCISCO FOR PAST SIX MONTHS

Building construction undertaken in San Francisco during the month of June involved a expenditure of \$2,232,809, bringing the activities of the past six months to \$12,548,929. During the month of June, 565 permits were granted, making the total number of permits for the six month period register 2,411.

June, 1929, operations called for 585 permits having a valuation of \$3,303,317.

Frame building construction, mostly homes, proved the biggest unit of the June operations, 142 permits being issued. Public building construction, two projects, followed with a \$691,695 expenditure. Alterations, additions and repairs to standing structures called for an expenditure of \$324,175.

Following is a complete tabulation of the June, 1930, activities as compiled by John B. Leonard, superintendent of the Bureau of Building In-

Class	No. of P'mts	Cost
A	1	\$ 40,000
B	4	165,000
C	17	243,550
Frames	142	768,889
Alterations	399	324,175
Public Bldgs.	2	691,695

Total 565 \$2,232,809
Compilation of the figures for the first six months of each year for the past five years, shows the 1930 operations as the lowest on record, both in the number of permits issued and estimated valuation.

NUMBER OF BUILDING PERMITS AND ESTIMATED VALUATION FOR FIRST SIX MONTHS OF EACH YEAR FOR PAST FIVE YEARS

	1926		1927		1928		1929		1930	
	No.	P'mts Est. Cost	No.	P'mts Est. Cost	No.	P'mts Est. Cost	No.	P'mts Est. Cost	No.	P'mts Est. Cost
January	786	\$ 5,153,504	692	\$ 3,528,955	611	\$ 3,710,925	536	\$ 2,778,323	610	\$ 1,431,953
February	753	4,711,886	623	3,210,978	676	2,398,450	570	2,314,112	495	1,144,062
March	1,010	3,944,343	900	4,685,162	856	4,240,494	610	2,701,111	584	3,502,312
April	981	7,299,451	963	4,939,212	744	3,701,861	656	2,816,146	587	1,356,653
May	827	2,634,875	905	4,979,792	661	2,635,116	765	4,307,352	570	2,881,110
June	832	8,479,058	838	3,926,432	668	2,310,136	585	3,303,317	565	2,232,809
Totals	5,189	\$32,223,117	4,921	\$25,270,531	4,216	\$18,996,982	3,722	\$18,220,361	3,411	\$12,548,929

S. F. BUILDERS ENJOY ANNUAL EXCHANGE SMOKER

Members of the San Francisco Builders' Exchange celebrated the annual banquet and buffet-luncheon of that organization last Thursday evening. A record crowd was on hand to enjoy a program of entertainment with something doing every minute.

Charles Smith, plastering contractor, with his tenor voice carried off highest honors on the entertainment program.

Miss Carmen Brock entertained with songs, followed by Hal Burmeister in vaudeville selections.

Comic songs with guitar accompaniment were featured by E. Westerland and vocal selection by R. Swall. Operatic selection were offered by Mr. Tognally.

An Egyptian dance by Miss Alma Warsel and a Hula dance by Miss Irene Cortway were features of the evening's entertainment.

Miss Jessie Douglas accompanied the various artists on the piano.

Following the entertainment a buffet luncheon was served and festivities continued until midnight.

William H. George, president of the exchange, announced the entertainment features assisted by Emil Hlogberg, chairman of the Exchange Entertainment Committee.

STOCKTON DEEP WATER PROJECT BIDS ARE ASKED

Bids will be considered August 26 by Major J. R. D. Matheson, U. S. District Engineer at Sacramento, for the construction of levees along the San Joaquin River, in connection with the Stockton Deep Water Project.

The specifications are prepared for two contracts, one for dragline dredging, and one for clamshell dredging. Four types of levees are to be constructed.

The specifications divide the work into several units. Those for drag line work call for removal of an estimate of 478,800 cubic yards and construction of 47,625 linear feet of levee between Mormon channel and Burns cut-off; removal of 268,700 yards and construction of 46,650 feet between Burns Cut-off and Turner's Cut; removal of 50,000 yards and construction of 3300 feet of levee between Hog Island and Head ranch; and removal of 66,100 yards and construction of 44 and Mandeville Island.

Total yardage to be moved by the dragline dredgers will be \$63,600.

The clam shell work calls for removal of 1,827,700 yards between Mormon Channel and Turner's Cut; 325,400 yards from Turner's Cut to Spud Island; and 464,000 yards between the west end of the McDonald Tract and Camp 8, Venice Island. Total yardage will be 2,617,100.

STATE EXCHANGE TO MEET IN RICHMOND AUGUST 30

Richmond will act as host to the annual convention of the California State Builders' Exchange, August 30. As that date precedes a holiday, a large attendance is expected from every section of the state, Harry R. Cayford, secretary of the state organization, announces.

Sessions will begin at 9 A. M. on the 30th, and continue throughout the day and evening, with an enjoyable social program being planned for the "in between" hours of the day.

This convention will mark the completion of the incorporation of the state body, and election of 11 directors who will serve under the new regime will be held. These directors will name the officers for the coming year.

Incorporation was considered a necessary step to further the interests of the Builders' Exchange movement in California, and to bring about effective co-operation with the National Association of Builders' Exchanges. Much more can be accomplished through unification of effort, and it is expected that the coming convention will be the largest ever held by the California State Builders' Exchange.

Marin Lumber Supply Company plant at Sausalito suffered a \$15,000 fire loss June 30.

ROAD TO PROSPERITY IS OUTLINED BY STEEL CHIEF

Speech of Chas. F. Abbott, Executive Director, American Institute of Steel Construction, Inc., at the Convention of the Steel Founders Society of America, Greenbriar, Va., June 27, 1930.

A casual analysis of our industrial situation will show conclusively that in the majority of instances reasonable returns are not being obtained. Our country's most valuable possessions rest in its natural resources, valuable in peace times as well as during emergencies. Why, then, should we permit our oil, lumber, coal, cotton and mineral deposits to be taken from our preserves and disposed of at a loss or without a reasonable profit?

Under such conditions our financial institutions are facing real hazards, possible unemployment and satisfactory wage adjustments, our transportation systems feel the pinch. In fact, the welfare of all of our people is vitally concerned unless industry is capable of receiving a fair return on its capital investment.

Should we question any number of industrial leaders we will find many reasons given that are preventing profitable operation. Some of them are attributable to inadequate legislation or obsolete laws; others are based upon individual selfishness, obsolete plants and machinery, and inefficient management and methods of distribution. No doubt all these contribute to the causes but the fact remains that no authentic information has been produced on this question that concerns national progress and welfare.

The seriousness of the situation so closely allied to public interest should command the appointment of a council or commission to consist of representatives of finance, labor, industry and economists that would give intensive study to the situation and develop the real causes through fact-finding, and then publish them as a semi-official endorsement which could be received by the public as the result of an impartial study of competitive men, able and capable of determining causes. With such information at hand, a program of remedy or relief could be prepared and such action taken as might be deemed advisable to insure or encourage profitable operation.

Today, industry is confronted with the Sherman Anti-Trust Law that is uncertain in its applications and its interpretations. Some of the restrictions were passed about forty years ago to cover conditions existing at that time but which are now obsolete. Unsatisfactory interpretations of the present law are confusing and no doubt contribute to the failure of industry to apply proper methods of control.

Industry experienced a sign of relief in the Codes of Trade Practice suggested by the Federal Trade Commission and energetically took advantage of the opportunity only to be informed that the Department of Justice did not approve the rules in their entirety and, therefore, the Code of Trade Practice movement was thrown into a state of chaos and so far without any of the benefits that were thought possible.

Undoubtedly legislation is not alone responsible for there are many evils that should be eliminated through the initiative of each industry itself as well as by each individual through a spirit of cooperation to promote better methods and eliminate the unethical, unfair, competitive relations now also, gather too disastrous to business.

Over-production is one of the greatest hazards under present-day conditions. Plant capacities increased for

An appeal for greater industrial cooperation was voiced before the convention of the Steel Founders Society of America by Charles F. Abbott, Executive Director of the American Institute of Steel Construction, at Greenbriar, Va. Mr. Abbott advocated the creation of a national commission of business men to study the causes of the lack of profits, and an appeal to President Hoover to appoint such a commission.

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war purposes were in excess of consumption possibilities in peace times and yet there are many inspired by a degree of selfishness who are attempting to operate at a 100% capacity in the belief that mass production will solve their problems when consumption figures fall far below this capacity output. Such a condition inspires competitive rivalry and methods that are ruinous to prices and fair profits. This policy is unsound and uneconomical and against public welfare. It would seem reasonable that some change in the present legislation could be brought about in order that production could be controlled in conformity with consumption possibilities and without the destructive influences of overproduction.

The whole question is one that concerns every industry and it should be approached by a coordinated undertaking that would include all the interests involved. Unless initiative is assumed by industry, then it is possible that we may experience a form of regulation or governmental control in order to insure prosperity. No farsighted business man wishes to encourage governmental interference in industry; yet if industry itself is to fail in its responsibility the government will undoubtedly insist upon some action to eliminate the deficiencies.

It is suicidal to run to Congress every time we have a business problem. That is merely inviting paternalism, and paternalism is the rape of individual opportunity. Businessmen must learn how to regulate themselves if they wish to avoid state socialism. Individual opportunity is eco-

nomic freedom, it has been truly said, and if we deliberately sacrifice that we will be headed on the road to Russification, we will sacrifice our political freedom.

It is recognized as the right of the American consumers to have full liberty in purchasing such goods as they think they have need for. We have no right to deny those goods to anyone who wishes to buy, and neither have we any right under the law to prevent the marketing of goods by any competitor. A monopoly is considered prima facie evidence as a restraint of trade because its intentions are believed to be for the purpose of curtailing production, and of depriving the public of something that it may have need of.

A manufacturer has just as much right to legal protection as has the consumer. He should be accorded as much protection from the vicious acts of his competitors as are consumers.

The thousands of industrial cooperative organizations are now in existence and are in a position through well prepared programs and mechanism and personnel to contribute to a large extent in any undertaking designed to encourage more profitable operation. They constitute the logical leadership but under existing uncertainties they are fearful to pursue any activity that might be questioned. Their proper activities should be clearly defined, and they should be permitted to function in a constructive manner. The only practical plan to bring about the desired relief is for industry to take the initiative, coordinate their thoughts and requirements into a plan based upon fact-finding and then insist upon the relief that is essential to their permanency and future prosperity.

Why should we organize a trade association? Why should I join and contribute time and money? Should there be any doubt of the answer, the view of the conditions confronting us?

The facts are convincing. We have left the days when individuals could fight each other and prosper. We have entered a new economic era where cooperation among competitors offers the only hope of meeting the new and changed conditions.

The steel pipe manufacturers have no organization and complete reliance is placed upon individual effort to prevent the displacement of steel pipe by competition. As a result of this lack of cooperation a large volume of business is lost, due to the more active unified effort on the part of competing organized industries.

Owen D. Young, Chairman of the Board of the General Electric Company, has said that the solution of business problems lies in group action.

Charles M. Schwab made the statement that would be cooperation among the various elements of the steel industry would be worth more than a billion dollars.

Those few remaining industries that are still in a state of disorganization, are groping in the dark, while the effective work of a competitive organized industry is creating excess plant capacities for them as markets decline by substitution of products. Destructive competition follows as a logical conclusion, prices become demoralized and profits are dissipated. Programs of standardization, simplification, education and reduced costs become impossible. The new era with its intriguing crosscurrents and influences will-

mately will lead these few delinquent industries into a condition of chaos.

There is only one answer and that is to move ahead as times and conditions change and to move so fast that competing industries are left behind. There are too many sitting with corpses in business today. What they need is new business, new enthusiasm, and new life. This is not a time when individuals can supplant the need for organized, cooperative effort.

Here is a responsibility that must not be overlooked and that it is a serious one no well informed business man will deny. There is only one possible way to proceed. Industry must organize, clean its house and fight or find itself hopelessly confused if responsibility is to be left to individual action.

Those who refuse to join their industry organization who refuse cooperation and prefer to go-it-alone can well afford to consider just what may be in store in the future if their insistence upon riding free is to be continued.

It is these few individuals in each industry that present the real hazards against the successful operation of all trade organizations. They are the weak links in the chain. There is more to be done through self-respecting cooperation than through that kind of competition which exists between yeggmen and even they have a standard code which they recognize. Unfortunately, there is to be found a small minority that refuse any cooperative action, and who prefer to ride while the other fellows pay. They are the small, disgruntled group that retards the progress and prevents constructive work. They feel that they are gaining while they actually lose.

In some foreign countries the law compels membership in their industrial organizations. From an economic standpoint this requirement is constructive. The non-cooperator in these days is a real obstruction of sound conditions. His isolated position, his refusal to do his part to advance his industry and his eagerness to take undue advantage of all the constructive work being accomplished by his competitors stamps him as an obstructionist. Banking institutions could well afford to recognize this liability as distinguishing between the majority who are enhancing credit risks while the indifference of the small minority encourage bad conditions that impair profits and credits.

There is ample proof that a thorough organization of our industries is essential if we are to experience prosperity and to preserve it.

There are many questions that can receive attention in constructive programs of trade organizations, among which are the following:

- Standardization and Simplification
- Codes of Trade Practice
- Code of Standard Practice
- Standard Specification
- Educational Meetings
- Standard Handbook
- Cooperative Advertising
- Research
- Uniform Cost System
- Sales Training

It is not my purpose to develop all the results that are possible, but I will emphasize some of them.

Research—Research, for the purpose of developing new uses and broadening the market is one of the most important of all activities. If conducted by an organized industry, the expense to each individual is not a large item though the benefits are very great.

As a result of Research the American Institute of Steel Construction has developed the battled steel plate floor construction, the use of steel in residences and is furthering a program to develop the practical use of steel in dams, and in other large potential markets.

This is one of the means of meeting the excess capacity problem, by stimulating a greater consumption by the development of new uses. The application of research to technical problems not only tends to reduce costs, but to make possible more intelligent and economical uses.

Costs—Extreme pressure to obtain business has resulted in price-cutting reaching a point where only the relatively few most efficient plants earn a reasonable profit and even their margin has lately been seriously jeopardized as a result of unrestricted competition. Under such highly competitive conditions there comes a time when the margin between irreducible costs and profits with the most efficiently operated concerns finally narrows to the point where prices will not recede further. There is no need for any cost figures when selling prices are to be fixed by a system of outguessing competition.

The principal purpose of obtaining accurate costs is to establish a base upon which profits may be added. The sum total then becomes the sales price. This method eliminates all consideration of what competition may do and is the only process than can insure successful operation. The acceptance of more constructive methods is essential before there can be any need for cost prices. Eventually this need will become recognized. Profits will then become the incentive with less consideration devoted in trying to guess what price competition may quote.

The use of accurate costs advances intelligent competition. Inaccurate costs, obsolete equipment or inefficiency in operation develops the ignorant, destructive form of competition from which the best organized concerns become infected wherever ignorance prevails.

The plants operating on the basis of the highest efficiency are the most useful advocates of distributing intelligent cost data and the collection of statistics realizing that their participation serves as the most effective means of influencing others who may be operating ill-advisedly from weakening the market or indulging in destructive competition.

The practical approach to the problem rests in education, to bring about a complete recognition of the vital need for profits which becomes possible only when all members accept and apply the means by which profits can be obtained. This method calls for control to be vested in costs upon which selling prices will be based.

The acceptance of a Uniform System of Cost Accounting would standardize methods and place all on an equal basis. Reduction in costs will then depend upon improved methods and the elimination of waste and lower prices will go to those who become the most efficient. This is as it should be as personal initiative and ability can then become a spirit of rivalry between management and those that manage the best can profit the most. Intelligence supersedes ignorance and competition regains the stimulating influence necessary to a healthy business condition.

Salesmanship—One of the most important problems in business today is selling, based upon a fair price to the customer and which will yield a reasonable profit to the manufacturer. Cut out all the frills and the solution of the problem rests with each individual seller. He can solve that problem to his own satisfaction and to his own financial success if he refuses to be bluffed into a sale at a price which will not cover his costs and a reasonable profit.

"That is fine," you say, "but I must meet my competitor's price or lose the business. I know my competitor is selling below cost and I have got to meet his price." And that is exactly where we begin to dig the graves. Is it necessary to sell at cost or at a loss for no other reason than the fear that if you don't, the other fellow will?

Is capacity production at a net loss more desirable than 60 or 80% output at a profit? If one competitor wastes his capital assets, must every other seller in competition match his destructive, ignorant policy? The fact that there are many in every line who are making a profit proves that knowledge and self restraint are not without their rewards.

There are concerns in highly competitive industries that are displaying that courage year in and year out. True, they may not have the big volume but they have not been drowned in red ink!

Destructive competition and the absence of approved selling methods have brought many customers to the point where they regard low price as the only consideration in their purchases. The falsity of this conception is apparent to all of us, but if it is to be dissipated we must give salesmanship the same consideration they give all the other elements of business.

It takes courage to look a carload order square in the face and say "No" if the order is not in accord with your established terms and prices. Of course, you can't get all orders without price being the inducement in some cases, but there are many other factors worth talking about. When the price is once submitted, there should be no further concessions. That is salesmanship.

Real salesmanship begins when prices have been established on a basis of total cost plus a reasonable profit and when orders are obtained without concessions affecting either terms or prices. The difficult part of salesmanship is not in selling to people who have already made up their minds to buy at the price quoted, but in selling to those who either do not want to buy or who are not willing to pay a fair price.

Study the selling policies of the automobile industry and you will find them well standardized. The prices and terms established by each company are the same to all. There are no secret rebates. The buyer has confidence in the industry because he knows that when he is ready to buy he can make his purchase without feeling that haggling with the salesman might have resulted in a better price.

Compare this policy with that of an industry where there is no standardization in selling policy. Each sales proposal is subject to varying terms and prices for the same article. Imagine the state of mind of the buyer, his confusion and lack of confidence, his inability to find a dependable basis for a comparison of values. How can he possibly determine whether he has obtained the best price? In the former instance, public interest is protected and confidence sustained. In the latter, public welfare is disregarded, confidence is displaced by uncertainty, and waste exacts a penalty that in the end the public must pay. There is no essential difference between the sale of an automobile, structural steel, steel castings, a toothpick, or an airplane.

To sell steel castings successfully we must not only talk about their superior qualities, we must dramatize them. We must build up our case.

point by point, and prove superiority. We must focus attention to tests, and demonstrate convincingly the reasons why steel castings are the best of all for certain purposes. We must point out their economy, their durability, and prove that their use over a period of years represents the lowest ultimate cost.

In a number of industries there is actually severe trade depression, due largely to inefficient methods that have obliterated all semblance of salesmanship. If the tendency in this direction continues at the present rate, it threatens to develop into trade prostration of the worst kind. The best hope of checking this trend lies in convincing sales executives that volume should not be the sole aim of business.

We must learn that fair volume, coupled with fair profit, is far more desirable than maximum volume coupled with minimum profit or no profit at all. Price-cutting is a direct result of unreasonable selfishness for business. Minds filled with rancor, hate and jealousy and suspicion, will be met with similar mistrust. Confidence and faith in one another, as Judge Gary stated, is vital, if progress is to be made.

A successful plan to remove the destructive, unfair business conditions existing within an industry is to fill it so full of constructive, fair methods that there will be no chance for the evil practices to flourish.

There is altogether too much competition in this country on poor quality. Poor quality businesses are not making expenses as a general rule. The solution is to produce a quality article, trademark it, guarantee its purity and quality, and then advertise it intelligently.

Why worry about the price-cutter? Every time he cuts a price, he is only adding to his own difficulties. Why not let him do all the worrying?

We must not talk prices and say that we can beat our competitor's prices. We must talk quality and service for the consumer is willing to pay the price if you can convince him on the two vital factors of quality and service.

Price is entirely a mental reaction. It is too high if the customer thinks it is and it is cheap if that reflects what he thinks. It is our duty to create in the customer's mind, the belief that our price is right, and that we are asking him only what we are entitled to get.

It is a very easy thing to reduce prices below a reasonable minimum, but it is an extremely difficult proposition to bring prices back to a level where reasonably profitable returns are to be experienced.

The buyer who is interested in the prosperity of his company must recognize that his ability to succeed depends upon his success to sell the merchandise of his company at a profit. He is not only a buyer but he should have an equal interest in the problem of selling. To jeopardize the interests of his principal sources of supply, forcing prices below cost in a vain attempt to obtain a cut-price or concession is the direct means of undermining the whole business structure.

The buyer and the seller are as dependent upon each other as are the producer and distributor of the product. In the long run, buyer and seller alike will be adversely affected by any influence which undermines the stability of the other. The best assurance for the consistent prosperity and progress of both and of American business as a whole, lies in active

co-operation to foster constructive influences and stamp out those such as price-cutting which are responsible for destructive competition that menaces the welfare of all concerned.

There is a failure in some industries on the part of some to fully recognize the economic position of the small plant or customer. In the steel industry the mills should not overlook the fact that the small concerns are the missionaries working the highways and byways, developing new customers for steel products, educating and promoting a steel consciousness. It is these small concerns that solicit the small orders but in the aggregate they represent a large and important volume. The larger unit is not equipped mentally or in any other way to extend service to these smaller users, therefore, reliance must be placed upon the smaller organizations.

We must not forget that the backbone of American industry consists of the small companies, the retailers and similar units. Their rights and preservation should be completely recognized by defined policies that are fair and in keeping with conditions.

In some of the distributing industries there is a tendency on the part of some of the larger concerns to look with disfavor upon the small competitor. Trade organizations have taught them that extermination does not pay. They might be successful in exterminating one group today only to find another crop tomorrow less controllable and less subject to education. A far better policy is to recognize the ones already in existence and by constructive leadership subject them to helpful education and thereby preserve the spirit of co-operation as reflected by the industry. The public and the ultimate consumer must be made conscious of steel for castings. They must be made acquainted with the merits and advantages of steel for castings and their superiority should be convincingly emphasized.

The industry or concern who fails to place proper valuation upon public opinion as the controlling factor in our industrial progress will be outstripped by a more alert competitive material.

Advertising—To supplement efficient selling and the promotion of the market for steel castings you must not overlook the importance of a public undertaking and recognition of the merits and advantages as exemplified in the use of steel itself. The ultimate consumer can be influenced to express a preference if he has first been convinced on the point of superiority.

There are many available records of success in advertising highly technical products and the list is a long one. Steel in buildings, bridges, refrigerators, automobiles, railway cars, furniture, ball bearings, and other uses are all included in the list. The regrettable part is that the user, not the producer, of steel is doing most of the advertising for the steel industry. These constructors recognize the value of emphasizing steel as an important sales argument.

With proper study and under efficient supervision advertising can be applied to any commodity no matter how technical its character may be or whether or not it loses its identity as a component part of a product that includes other materials. In the last analysis it is the customer, consumer or the public that says whether castings will be of steel or some other competitive product.

Assessments—There are altogether

too many who still look upon organization assessments as an item of expense. During dull periods the treasurer, or some other official not thoroughly informed in regard to marketing conditions, is inclined to reduce expenses and begins with the trade organization. There are others who refuse support because they feel they can gain while the other fellow pays.

Here is where we must begin with our education. If members of an industry are to hold fast to the idea that assessments are items of expense instead of an investment, then we might just as well abandon all idea of co-operative effort.

Assessments are usually obtained by a nominal charge levied on shipments and they should represent in the neighborhood of 1 per cent on gross sales. Small and insignificant charges make no impression one way or the other, except that they strike the treasurer as being items of expense. The way to make them stick is to levy assessments that are large enough to be felt. That is the only means of developing the investment consciousness.

In most organizations assessments are considered as an item of cost and included within the sales price. The customer pays and the amounts are then transferred to your institute whose Board of Directors invest them in a constructive program that benefits the entire industry, as well as each individual.

What difference does it make whether the assessments amount to 20 cents or 50 cents per ton, as long as all pay on a proportionate basis? In any event, 20 or even 50 cents per ton is sold on a competitive factor one way or the other, and the company that refuses to pay loses far more than it gains.

The intelligent farmer realizes that he can not succeed by plowing the ground and reaping the harvest and doing nothing else. He attaches great importance to the fertilization and to scientific soil promotion. He recognizes the need of returning to the soil a part of that which he has taken out. Moses in his law-giving wisdom demanded a tithe. It is the same in industry. We must be willing to pay for what we get or we will continue a policy of starvation, and in the end, we will find that we have no business at all. Markets must be promoted and protected, new uses must be developed. It would be impossible for any single company to undertake such an activity because of the large expense involved.

When business men will give heed to the obvious way out of their difficulties, they will be in a better position to plan intelligently. When industry holds fast to the fundamental law of profitable business it will become profit-minded and that is a long way toward the goal of success. There is no substitute, however, for individual responsibility and no hope of effective co-operation without it.

The era of narrow, selfish individualism is passing. We must enter upon a new era of co-operation and cordial understanding between buyer and seller, producer and distributor and the individual units of our various industries. Only upon such a foundation can a sound economic structure be erected. Individuals and organizations alike must learn that neglect of the spirit of "live and let live" so ably expounded by Judge Gary, produces little but friction, heat, rancor, and impairment of earnings.

THE OBSERVER

What He Hears and Sees on His Rounds

An improvement in the supply of capital now available for real estate loans in comparison with the supply available six months ago is reported by the National Association of Real Estate Boards following the completion of its 15th semi-annual survey of the real estate market, a survey made by the Association from the collected reports of 423 local real estate boards representing the principal cities of the United States and Canada.

This improvement in the supply of available capital, the National Association points out, indicates that the fundamental problem for increased construction—the problem of supplying funds for wise building projects—is now presenting itself as a less difficult one, probably due to the fact that capital is less disproportionately diverted directly or indirectly into speculative fields and will tend to be placed increasingly at the disposal of the home builder.

Comparing the situation today and six months ago, when the first results of the stock market debacle were being felt, the report shows that today 30 per cent of the cities report an equilibrium between supply and demand in real estate mortgage loans and capital, 48 per cent report that desirable loans are seeking capital and 22 per cent report that in the mortgage money market capital is seeking loans. The report six months earlier showed that in 53 per cent of the cities real estate loans were seeking capital; 19 per cent reported a surplus of capital seeking investment, and 28 per cent reported equilibrium between supply and demand.

In the present survey no effort was made to gather statistics on the actual amount of money now available for construction in the various cities reporting. The National Association is now engaged in an investigation to determine just what sums are now ready to be used for building purposes.

Alexander Legge, chairman of the Federal Farm Board, suggested to the National officers of the Mortgage Bankers Association of America in session at Chicago June 21 that a definite program of co-operation be developed between the Board and farm mortgage bankers throughout the country.

"Mortgage bankers in your organization lending millions of dollars of insurance funds on the security of farm lands are in a strategic position to assist the farmer directly and to help the Farm Board keep in direct touch with farm problems," said Mr. Legge. "The Farm Board looks favorably upon the appointment of a Committee properly representative of mortgage bankers and insurance company investors to advise the Board with reference to economic questions involving land utilization and trends in agricultural finance."

Declaring that acreage reduction is vitally necessary to the success of the Marketing Act, Mr. Legge cited a leading manufacturer's statement recently that farm production should not be controlled or restricted. "This manufacturer, at the time, was running his own factory at 70% capacity. If he were running at 100% capacity, as he advises the farmer to do, he would be broke in twelve months," he observed.

In line with Mr. Legge's proposals the Mortgage Bankers authorized ap-

pointment of the Contact Committee suggested, and a plan of co-operation will be carried into effect immediately.

The services performed by trade associations have become an almost indispensable factor in business success, Hugh P. Baker, manager of the Trade Association Department of the Chamber of Commerce of the United States, told the members of the National Association of Purchasing Agents at their 15th annual convention in Chicago last week.

The trade association, he said, has become a permanent part of American business life. "Conditions are such in industry today," he declared, "that if for any reason the association serving a particular industry were wiped off the map, in six months doubtless the industry would have to come together again for unified action in meeting its common problems."

"There is plenty of evidence," he continued, "that the trade association has come to stay. In this connection, it is interesting to note the changing attitude of the bankers of the country toward trade associations. More and more the bankers are coming to determine the credit to be extended business men upon the basis of the ability of the business men to get together with his competitors for the sound upbuilding of the business or the industry of which he is a part. Bankers are less and less interested in the little fellow or the big fellow who thinks he can run his business off in a corner by himself without affecting his competitors or without affecting his industry. The fact that the American banker is recognizing the importance of the trade association, is evidence enough that he thinks the trade association has come to stay. Another evidence of the permanency of the trade association is the fact that no large industry in this country is without a trade association."

Eight European nations will be visited by students of the School of Architecture of the University of Southern California who go on the annual "vagabond" summer tour sponsored by the Trojan Institution, according to the itinerary announced today. The trip will be conducted under the direction of Dean Arthur C. Weatherhead and Prof. S. Raymond Johnson of the S. C. architectural faculty.

The latest trend in modern architecture will be studied by the mobile students in various cities and countries, emphasis being placed on American work as contrasted with that of other nations. Six units of credit will be granted those who pass an examination following completion of the tour.

Important points of interest in the Trojan itinerary include Paris, Versailles, Madrid, Seville, Rome, St. Gothard, Heidelberg, Brussels, The Hague, and London. Washington, D. C., and other eastern cities will be visited on the return journey.

Foreign schools to be visited are the Paris Beaux-Arts, the Fontainebleau summer school, and the American Academy in Rome.

The "class" will return to Los Angeles about August 15.

In addition to S. C. students the group will include some architects and draftsmen who are not interested in making the trip for college credit.

Low money rates and mounting contracts for public construction activities were seen among the more favorable factors in a non-committal analysis of current business conditions made in public last Monday by Julius H. Barnes, chairman of the national business survey conference.

"Our conviction is that interested individual judgment should form its own opinion, without being influenced by any attempt at interpretation," Barnes said.

He pointed out that rediscount rates at the New York Federal Reserve Bank are the lowest that have ever prevailed in the system. Customers' rates at commercial banks have declined on a par with two years ago, he noted.

Barnes reported that for the year to June 26th, public works and public utilities construction exceeded last year's volume by over \$110,000,000. As against this gain, however, his statement showed a decrease of more than \$110,000,000 in non-residential building fell behind \$500,000,000. Total building contracts for all classes this year to June 26th were disclosed at \$2,375,000,000, against \$2,864,000,000 for 1920.

May foreclosures and delinquencies on mortgages were materially reduced under a year ago.

Usual May decline in bank savings negligible this year. Increase shown for first part of June.

Fewer delinquencies in collections on installment purchases.

Petroleum production has been curtailed almost to the level recommended by the federal oil conservative board.

The report brought to light unfavorable features as well, notably the 6 per cent decrease in car loadings in the first twenty-three weeks of 1930; May automobile production 30 per cent under May a year ago; declines in iron and steel output and drops in metal prices.

The Portland Cement Association, which has been conducting an intensive safety campaign for a number of years, is now under way for its 1930 campaign. The rules have been issued, and the awards will be made to the winning plants at the spring meeting. Each winning plant will be invited to send delegates. The Association has decided that a lost-time accident must be defined as one in which the injured loses more than the remainder of the shift or day in which the accident occurred, and in determining whether a given accident is chargeable, the committee shall be guided by the rulings of the California State Industrial Accident Commission.

The safety work of the various mills is planned to fit the particular operation. In some plants the safety committee includes the foremen and department heads, with the plant doctor and nurse. These committees hold monthly meetings. The foremen are expected to invite a few men to each meeting. General plant safety meetings are held at intervals of several months, and at such times two or three departments are shut down and the men brought together for twenty or thirty minutes for safety talks.

New orders of fabricated structural steel in May, as reported to the Department of Commerce by the principal manufacturers were 75 per cent of capacity as compared with orders of 53 per cent of capacity in April, and 59 per cent a year ago. Shipments of fabricated-structural steel in May represent 70 per cent of the capacity of firms reporting this item as against 76 per cent in April and 81 per cent a year ago.

HERE — THERE — EVERYWHERE

Roy Eakle was re-elected president of the Richmond Builders' Exchange at the tenth annual banquet meeting of that organization last Thursday night. Frank Mero was elected first vice-president; Carl Overaer, second vice-president; P. M. Sanford, secretary of the board; and James Walker, treasurer. Other directors are Andrew Nelson, E. H. Higgins and Jas. Walker.

Construction of dwelling, office and industrial buildings in Germany shows a decline in 1929 of 11 per cent from the figures reached in 1928, and it is estimated that the 1930 figures will probably be 20 to 25 per cent below the figures of 1928. According to an official estimate, dwellings are 80,000 short of the existing demand, but lack of capital is making new house construction difficult.

Failure of private builders to follow the lead of public works and public utilities in expanding building operations shown by figures reported to the U. S. Department of Commerce is nullifying the efforts of the administration to ameliorate the unemployment situation.

So badly has residential construction slumped so far this year that all gains by public works and utilities construction have been wiped out.

For the five months ended with May construction contracts awarded in 37 states aggregated \$2,037,000,000, a decline of \$449,000,000, or 18 per cent, below the total for the corresponding period last year, despite the fact that contracts for public works and utilities, totaling \$538,000,000, an increase of \$101,000,000, or 21 per cent over last year, broke all existing records.

Total construction awards in these states so far this year are the lowest since 1921, according to figures compiled by the department today, and residential building contracts, totaling only \$483,000,000, a drop of \$431,000,000 or 47 per cent, from 1929, are lower than they have been for many years.

Non-residential contracts for commercial, industrial, education and certain other classes of building, but not including public works, totaled \$1,012,000,000, a drop of \$118,000,000, or 11 per cent, and were the lowest for the same period of any year since 1925.

Comparing current figures with averages for the previous five years, it was pointed out at the department, shows a decline of 19 per cent in all contracts. Residential contracts are 55 per cent below the average and non-residential awards 4.5 per cent below, this being only partially offset by the increase of 35 per cent in public works and utilities.

NAPA COUNTY GOES 5-DAY WEEK FOR BUILDERS

The five-day week will be adopted for Napa and surrounding communities as a result of an agreement reached by a committee of the Building Trades Council and directors of the Napa County Building Exchange. The plan, which will take the place of the present system whereby members of building trades work a half day on Saturdays, will go into effect Monday, July 14, according to C. C. Mooney, secretary of the Council.

Trades affected by the plan are electricians, plumbers, carpenters, painters, mill workers, brick layers and all others engaged in the building industry. The present scale of wages will prevail, according to Mooney.

ALONG THE LINE

Clyde Laird, for the past seven years investigator for the district attorney's office in Contra Costa County, a licensed surveyor and engineer, has filed his nominating papers for the office of county engineer. The office is now held by R. R. Arnold.

Vladimir O. Oglou, 1710 Franklin St., Oakland, has been granted a Provisional Certificate to practice architecture in California, by the State Board of Architectural Examiners, Northern District, it is announced by Albert J. Evers, Secretary of the state body.

Bradford Pump Manufacturing Co., of San Jose, has appointed Euk L. Baughn sales manager. Mr. Baughn was formerly San Francisco district manager for the Byron Jackson Pump Co.

John L. Vincenz, deputy county surveyor of Fresno County, has been appointed postmaster at the new Meadow Lakes Postoffice, according to word from Washington. Vincenz is secretary of the Meadow Lakes Company, operators of the Meadow Lakes resort on the Fresno Lakes Highway above Anberry.

The fact that unnecessary noise presents a serious problem in receiving increasing recognition from various individuals and organizations. An account is given in the June issue of the Monthly Labor Review of the results of some of the studies and experiments dealing with the effects of noise on working efficiency. It has been shown that excessive noise reduces efficiency and that the practical effect of the use of quieting treatment for workrooms or the elimination or lowering of the disturbing noises has been an increase in output or a reduction in the number of errors. Experiments carried out in the psychological laboratory of Colgate University in which the effect of noise on the working efficiency of four expert typists was measured, showed that under quietest conditions the increase in speed amounted to 7.4 per cent for the fastest typist, while the average energy expenditure of the four persons was reduced nearly 30 per cent.

GENERAL BUILDING CONTRACTOR OFF THE PRESS

The new contractors' publication recently announced by F. W. Dodge Corporation has been mailed to its readers.

The first issue features articles by such prominent persons as William Joshua Barney, President of the Barney-Eylers Construction Co., T. B. Seales of the Geo. A. Fuller Construction Co., Stanley Newman, prominent Boston Waterproofing engineer, John Russell Jr., safety engineer for Public Service Production Co., and others. The new magazine is profusely illustrated and gives evidence of being the subject of much artistic care and attention. It features a 16-page portfolio of interesting progress photographs of building construction.

Theodore Crane, Associate Professor of Building Construction at Yale University is the editor of General Building Contractor.

TRADE NOTES

The International Steel Company of Seattle and Hickok & Hickok of Portland and San Francisco have consolidated and have adopted the name of Pacific H. B. A. Steel Company, Inc. The Seattle office is located at 292 First Ave. South. Offices and warehouses will be maintained in Portland and San Francisco also.

Hercules Motors Corp., Canton, Ohio, has named Walter F. Radtke, Pacific Coast sales representative with headquarters in San Francisco. Radtke formerly represented the Hercules interests in the Mid-Continent states.

Independent Pneumatic Tool Co., Chicago, Ill., has purchased the Co-chise Rock Drill Mfg. Co. of Los Angeles, which will operate as a unit of the Independent Company. There will be no change in personnel or methods. The plant of the Co-chise company will be expanded and its products will be incorporated in the present line of the Independent Company.

Zemco Electric Manufacturing Company, Ltd., of Alameda, has been incorporated and will engage in the manufacture and sale of electrical apparatus and materials. Directors of the concern, which is capitalized at 1000 shares, no par value, are J. M. and Ethel Zarwell of Alameda and W. E. Padfield of Oakland.

TRADE LITERATURE

The Rigid Conduit Section of the National Electrical Manufacturers Association sets forth in a new booklet the merits of rigid conduit as a means of providing a maximum protection for all wiring systems, and claims this product the only type of raceway which is not limited in use by any restrictive requirements and regulations. Copies of this booklet are given free upon request to George H. Sicard, secretary, Rigid Conduit Section, 603 Gas & Electric Building, Utica, N. Y.

PLUMBERS LICENSE FEE AT FRESNO TO BE RAISED

Probability of an increased city license fee for master plumbers of Fresno loomed with the receipt by Commissioner of Finance William Glass of a communication requesting such a move.

Glass said that the present city license fee of the plumbers is \$10 annually. It is expected that this fee would be raised to \$100 annually.

The move is being made against "pirate" plumbers who do free lance work about the city without maintaining a headquarters or paying city taxes. Approximately thirty-five master plumbers would be effected by the increase.

Information received in Fresno from other sections of the state shows that other cities are charging a high license fee in order to protect their local plumbers, Glass said.

ARCHITECT'S PART IN STATE WORK DESCRIBED BY DRAFTSMAN

Like any other art, craft, science, business or profession, the architectural practice of the present day is a product of evolution, says Harry W. Dellaven, chief architectural draftsman of the State Department of Public Works, in California Highways and Public Works. The appropriation of the title Architect was the result of a gradual process. Today an architect is a professional person whose occupation consists in originating and supplying artistic and scientific data preliminary to and in connection with the construction of buildings, their appurtenances and decorations; in supervising the operations of contractors, and in preparing contracts between owners and contractors.

Probably no one man could unite, with any great degree of excellence, all the attributes which could be alleged as essential to the complete architect. This ideal state is attained through the acquisition of an organization of specialists, competent in all the technical requirements of the building industry. Such is the Division of Architecture of the State Department of Public Works.

It is this organization that supplies the architectural service required by fifty different points of activity controlled by the state. Many of these points are institutions, and in effect are small cities with very unusual type of buildings required for their particular need. The accumulation of data on this specialized service renders this office more efficient in the production of the drawings and specifications for subsequent buildings at a much less office expenditure than was charged against the first.

There is an average of approximately \$10,000 worth of business produced daily by the Division of Architecture. The method in which part of this business is produced is after this manner:

Executing preliminary studies for all state buildings and developing the problems;

Investigating and selecting materials of construction, both concealed and exposed;

Preparing working drawings in detail, including scale and full-size detail. This method shows the contractor exactly what is required, and permits us to push the contractor to the limit after the contract is awarded and robs him of the usual excuse for delays, "Waiting for Details";

Designing and selecting fixed and movable furniture;

Interpreting building laws, etc.

The following subdivisions are found in the Division of Architecture: Structural Design, Mechanical Design, Electrical Design, Surveying, Estimating, Specifications, and Superintendents of Construction.

The buildings constructed by the state are mostly of the one- and two-story type, built of reinforced concrete or brick because of their use and the nature of their occupants. State buildings of all kinds are noted as suitable for their purpose—strong, substantial and durable. They are the acknowledged criteria of good construction. This office has always given the first consideration to the importance of these factors.

Architecture may be defined as the art of building beautifully and constructing soundly. There is no formula that produces good architecture

The architectural draftsman plays an important part in making a design a success, as it is he who develops the working drawings. He must be able to interpret in building terms the designer's idea in the form of drawings that the contractor can understand. Each set of drawings are thoroughly checked before being sent out for bids. This eliminates any chance of costly extras due to mistakes or misunderstanding on the part of the contractor as to just what is required.

The drawings for most of the buildings are made on tracing cloth in ink, and after all prints have been made, are filed as a permanent record. Should any change be made during construction, it is noted on the original drawings that a change order has been issued. In this way future alterations or additions can be made without making trips to the job and measuring the existing work, which saves considerable time.

In some instances the work is done by day's labor or inmate labor, and the Division of Architecture acts in the same capacity as general contractor, ordering all material. In this case, requisition drawings are made showing shape and quantity of material required for such as mill-work, sheet metal, ornamental iron, cast stone, terra cotta, etc., and bids are taken for each material separately.

The final link in our service to the state is superintendence. We make this a real service.

STEEL JOIST INDUSTRY TO MEET AT CLEVELAND

Representatives of all interests in the steel joist industry will meet in general conference under the auspices of the Division of Simplified Practice of the Bureau of Standards, Department of Commerce, at the Hotel Hollenden, Cleveland, Ohio, July 15, to discuss a tentative simplified practice recommendation covering the sizes of and the allowable loads for steel joists. In the past, much confusion has arisen in the design of this product because joists made by the different manufacturers varied notably in capacity. Designers, therefore, could not completely specify this type of construction without naming the product of some particular manufacturer. It is felt by those who have compiled the tentative table of sizes and allowance loads that its use will prove helpful to all concerned.

NOTED ELECTRICAL ENGINEER JOINS U. OF C. FACULTY

Announcements of the appointment of Dr. Leonard Franklin Fuller as leading professor of electrical engineering, effective July 1, is made by President W. W. Campbell. A search for an electrical engineer with credentials corresponding to the requirements of the position to be filled by Dr. Fuller, has been conducted by the university administration during the past nine months.

Dr. Fuller was graduated as a mechanical engineer from Cornell University, and he holds the degree of doctor of philosophy from Stanford University. He has had an extensive engineering service with leading cor-

porations engaged in the manufacture of electrical apparatus, and with well-known telegraph and radio corporations. He is at present vice-president of the Federal Telegraph Company with headquarters in Palo Alto. He is engaged in directing the development of the technical and economic features of improved plans for conducting short-wave radio communication between stations separated by great distances.

The appointment of Prof. Fuller is one of several steps recently taken by the University to carry out the plan of reorganizing the administration of the engineering colleges, as approved by the Regents of the University at their stated meeting in May.

PAVING LEVY SYSTEM IN OAKLAND TO CHANGE

Walter N. Frickstad, city engineer of Oakland, has advised the city council that he will put into effect a new method in levying assessments for paving or similar work.

Frickstad explained that paving has become expensive, through the restriction of competition, royalty paving and construction of unnecessarily expensive types of pavement. Much property has been confiscated because of high assessments.

Up to this time, corner lots have been assessed for full frontage on both streets. Hereafter the rate will be levied only on the side of the residence, Frickstad declared.

Relief for the corner lot brings assessments below the point of confiscation and will tend to increase assessments against interior lots. Out of plain justice, the dues of one group should not be allowed to confiscate the property of others.

COMING HALF-YEAR PROMISES "GREAT RESULTS"—HOOVER

President Hoover announces that public works construction during the first six months of the year totaled \$1,700,000,000, exceeding by over \$200,000,000 the boom year of 1929.

In a radio address from the White House study to the governors' conference at Salt Lake City on June 30, the chief executive said the second half of the year "promises even greater results" and asserted the "splendid endowment of our country of fortitude, courage, boundless energy and resources, together with the unity of effort is the guarantee of recuperation."

"To definitely organize so as to prevent the activity in public works from receding like other activities in depression, and to speed them up in anticipation of future needs so as to alleviate unemployment in such a time is a new experiment in the economic life of the first importance," Mr. Hoover said in thanking the governors for their co-operation following the stock market depression of last fall.

RAGNER MONSON BANKRUPT

Ragner Monson, San Francisco builder, has filed a voluntary schedule in bankruptcy in the Federal Court placing his debts at \$208,913. Assets are set at \$377,000, of which \$299,000 is said to be in real estate. Principal secured creditor is the Western Building and Loan Company, 1920 Broadway, Oakland, with a \$121,150 claim.

PORTLAND LICENSE ORDINANCE AT STANDSTILL

Portland's building contractors' licensing ordinance is still in practical suspension and there is at present no indication that the proposed new ordinance, modeled after the California state license law, will be adopted for some time to come. As the situation now stands anyone who applies to the city license bureau for a contractor's license can have it without examination or meeting any qualification requirements other than the payment of a \$10 fee.

The virtual suspension was caused by a considerable amount of dissatisfaction on the part of contractors with the operation of a classification section inserted by a revision of the ordinance and with a bond requirement section. The council repealed both the classification and bonding sections and the entire examining board resigned.

A new contractors' ordinance was drawn up by a committee of builders and later, at the suggestion of the chief of the city bureau of licenses, remodeled in line with the California law. This seems to be fairly satisfactory to all but one group of contractors. They and the author of the latest draft have been told to get together by the commissioner of public works, who says hat nothing will be done with the ordinance until they come back with an agreement.

BULLARD-DAVIS ORGANIZES SUBSIDIARY COMPANY

Bullard-Davis, Inc. (Del.) a subsidiary of Davis Emergency Equipment Co., 67 Wall St., New York City, manufacturers and distributors of first aid and safety equipment, announce the formation of a wholly-owned subsidiary company: Davis Emergency Company, Ltd., 1268 Mission St., San Francisco.

This office will be under the management of Herbert Brendlen.

This company is the exclusive Western representative for the sale of first aid kits and supplies, gas protection equipment, linemen's safety equipment and trouble finders, which are manufactured by the Davis Emergency Equipment Company, Inc.

The California company will also act as representatives for the following products sold by Bullard-Davis, Inc. (Del.) Miscellaneous safety equipment, safety clothing and safety shoes.

The former representative in the 11 Western states, was the separate corporation of Bullard-Davis, Inc., of California.

Neither the E. D. Bullard Company, successor to Bullard-Davis, Inc., of California, nor Mr. E. W. Bullard are new in any way connected with the long established Bullard-Davis, Inc. (Del.) and the Davis Emergency Equipment Company, Inc.

CERAMIC GLAZING SUBJECT TO TESTS

Greater durability of ceramic glazes may result from recent tests made at the Bureau of Standards, according to a statement issued by the Department of Commerce. The test was developed for the purpose of comparing the strains existing between glazes or other ceramic finishes and the bodies to which they are applied, according to the statement, which follows in full text:

A new test has been developed by the Bureau of Standards for comparing the strains existing between different glazes or other ceramic finishes and the bodies to which they are applied. By its use these strains may be so adjusted that the finishes will be in sufficient compression to prevent crazing from subsequent expansion of

the body without causing initial slivering.

The new test is particularly valuable because the measurements are made on combinations of glaze and body prepared and treated almost exactly like those intended for regular use and because of the simplicity and cheapness of the apparatus required. A modification of the test provides a comparison of the moisture expansions of different bodies.

FIVE-DAY WEEK SATISFACTORY AT SACRAMENTO

"Apparently the five-day week in Sacramento is working out with little or no friction," says L. S. Patterson, Secretary of the Sacramento Builders' Exchange. "Practically all building trades mechanics have been idle the past three Saturdays and to date there has been no serious objections from the contractors. In several instances it has been necessary to carry on emergency work or to clean up work started before the five-day week became effective. In each case permission to work has been granted."

BUILDERS ORGANIZE AT SAN LUIS OBISPO

Twenty-one representatives of the construction industry attended a meeting in San Luis Obispo County last week and formed the San Luis Obispo County Builders' Exchange. During the business session K. J. Hanak, secretary, was authorized to canvass the county for new members and to explain the purposes and aims of the builders' exchange to those who affiliate.

2630 CORPORATIONS IN STATE LOSE BUSINESS RIGHTS

Approximately 2600 California corporations forfeited their right to do business in this state when Secretary of State Frank C. Jordan struck their names from the state rolls.

Non-payment of state taxes was the reason for their losing their franchises. They were delinquent in payment of the 4 per cent net income tax levied on banks and corporations.

The total delinquencies do not amount to more than \$100,000, records of the companies showed, with most of them relatively small concerns.

MONTEREY PRESIDIO WILL GET NEW CONSTRUCTION

Keeping pace with the general building activity on the peninsula, the United States Government is preparing to spend approximately \$180,000 for new construction at the Monterey Presidio.

By this expenditure the government hopes to prepare the military reservation for concentration of all summer training camps at the Presidio.

Colonel J. L. Topham, post quartermaster, announces that a \$20,000 contract for erection of a unit of six latrines and one small latrine has been awarded to S. H. Hooke. Work will get under way immediately.

At the same time Colonel Topham announced that contracts totaling \$25,000 had been awarded to the Pacific Gas & Electric Company for the installation of mains, and to the Arrowsmith Company of San Francisco for installation of gas heaters and appliances.

On June 25 bids were opened for the erection of two cavalry stables to cost \$20,000.

STEEL REINFORCING BARS UP FOR SIMPLIFICATION

A proposal to revise the simplified practice recommendation on Steel Reinforcing Bars is now before the manufacturers, distributors, and users of this product for their consideration and signed acceptance, according to an announcement just made public by the Division of Simplified Practice of the Bureau of Standards, Department of Commerce.

The original recommendation, adopted by all interests, effected a reduction in the number of cross-sectional areas of reinforcing bars from 32 to 11. The equivalent cross-sectional area for each of the 11 sizes retained was expressed to three decimal places.

The revision, proposed by the standing committee of the industry, will limit the equivalent cross-sectional areas of the bars to two decimal places.

This modification was recommended as a means of further simplifying the work of engineering design where reinforced concrete is used and if accepted by the industry will be effective September 2, 1930.

FORTLAND ARCHITECTS AWARD-ED POSTOFFICE PROJECT

Morris H. Whitehouse and Associates, architects of Portland, Ore., have been commissioned to proceed with working plans for the proposed new postoffice and federal courts building to be erected at Portland, according to word from Washington, D. C. The cost of the proposed structure is set at \$1,237,500. The building will cover a ground area of 116,000 square feet and will house the postoffice, federal court chambers and other important branches of the Federal Government.

JOINS ASSOCIATION

Union Supply Company of Monterey has been admitted to membership in the Associated Leaders of Lumber and Fuel Dealers of America, it is announced by H. A. Hansen, manager of the Monterey Concern. The Union Supply Company now will have all merchandise bonded at to correct count, grade and weight. They will also be able to offer complete financing of home building and remodeling.

DIAMOND MATCH COMPANY IS TO REORGANIZE

According to word from New York, directors of the Diamond Match Company have determined to proceed with the preparation of a plan for reorganization and recapitalization of the company. President Fairbairn announced. He said it is expected the plan, which the board is convinced will benefit stockholders, will be submitted to the stockholders during the latter part of the summer.

PROTEST CONTRACT AWARD

Protests against the award of contracts for city supplies to Los Angeles firms, in direct competition with San Francisco firms, are on file with the Supplies Committee of the Board of Supervisors.

Frank Brown, business agent of the Molders' Union, told the committee that the city water department had recommended the acceptance of the bid of a Los Angeles firm to supply \$20,000 worth of pumps for the wells now being sunk in the Sunset District.

The committee took the matter under advisement.

GENERAL ELECTRIC COMPANY OFFERS UNEMPLOYMENT INSURANCE

General Electric Co. has just offered an unemployment insurance plan for its employees which is available to any of the company's works upon affirmative vote of 60% of the eligible employees. The plan is contributory—the company and workers sharing cost equally. Employees contribute 1% of their earnings so long as they are making 50% or more of average full-time earnings. Payments to contributing employees temporarily laid off, will be 50% of their average full-time earnings; or, if they are working part time, the difference between actual earnings and 50% of average full-time wages. Maximum payment is \$20 per week for not more than 10 weeks in any consecutive 52.

If payments from the fund should rise to 100% or more of normal receipts all employees of the works, and the general and district commercial men, general manufacturing, engineering, and administrative employees will be required to contribute to the fund until the emergency is over. All employees of one year continuous service are eligible to participate.

The plan provides that 3% of the contributions paid into the fund will be available for relief of employees and former employees in need; up to 2% may be used for loans to participating employees; 70%, together with all emergency payments and interest

on funds, will be available for unemployment relief. The fund will be administered by a trust giving equal representation to the company and participating employees. General Electric guarantees 5% interest on funds, will pay administrative expenses the first two years.

Coincident with announcement of the plan, Gerard Swope, G. E.'s president, made public a set of regulations given to various works managers for the stabilization of activities and prevention of involuntary unemployment. When business is increasing administrative officers are directed: to increase working force slowly, but to use overtime before doing so; to transfer employees between departments to care for temporary emergencies; to postpone maintenance work as much as possible.

When work begins to fall off plant managers are directed: to cease hiring; to cut out overtime; to transfer employees between departments; to build for stock; to expedite maintenance and renewal work; to cut normal work-week down to 50% if necessary; to drop new employees with less than one year of service—single persons with no dependents—first, when other means fail; always to give at least one week's notice and to notify employees whether layoffs are temporary or permanent.

NEW TAX FORMULAS FOR ADJUSTING MOTOR VEHICLE RATES URGED BY ENGINEER

When you paid your last motor vehicle registration fees, did you stop to consider whether the amount was an equitable proportion of the total of taxes you paid for the use of the highways?

Charles F. Marvin, Jr., mechanical engineer of the U. S. Bureau of Standards, has worked out a simple method of distributing equitably the total motor-vehicle tax levy as determined by the State. Mr. Marvin's method apportions among the various classes of vehicles and among the units within a class tax payments corresponding as nearly as possible to the amount and character of the use of the public streets and highways by each vehicle. His system also includes a workable basis for levying fuel tax and registration fees. Results of his investigations are printed in the May issue of "Public Roads," the official research magazine of the Bureau of Public Roads, U. S. Department of Agriculture.

Mr. Marvin uses three formulas in which he substitutes certain values which have been arrived at after careful investigation of relative costs to the State resulting from operation of average vehicles of different gross weights and which allow for the relative economic and social desirability of the different weights of vehicles as units of transportation. The first formula is for the total of motor vehicle tax payments. Subtraction of the annual proceeds of the fuel tax gives the amount to be collected in registration fees.

The total tax on a vehicle, he holds, should depend on three major factors entering into the use of the highways—the weight imposed upon the road surface by the vehicle and its load, the number of miles it travels during the taxable period, and the type of

tire with which the vehicle is equipped. So important in the matter of taxation is the gross weight of the loaded vehicle that it is a primary factor in Mr. Marvin's formulas. His formulas provide a gradual and consistent variation in tax throughout the whole range of gross weights.

As the actual gross weight of a vehicle varies with the number of passengers or the quantity of goods carried and also depends on the character of the equipment and the amount of fuel, oil, and water in the tanks, it is necessary for the State to designate what the taxable gross weight of any given vehicle will be.

To distribute taxes fairly not only according to gross weight, but also according to miles traveled, it is most equitable Mr. Marvin believes, to collect as much of the tax as is reasonable in the form of a fuel tax.

Solid tires are considered more destructive to roads than pneumatics on a similar vehicle. Consequently, a somewhat higher tax for solid tires is justified, Mr. Marvin believes. These tires have little effect on fuel consumption and the difference must be made up in the registration fees. For registration fees he considers most equitable a formula which gives a gradually increasing difference in tax for the heavier vehicles, and suggests a higher value for the algebraic expression representing solid tires than for pneumatic.

According to the registration fee formula, the equation determines small fees for light cars, which are taxed equitably by the fuel tax alone, and is chiefly effective for the heavier trucks and busses for which the fuel tax is inadequate.

Mr. Marvin's method of tax distribution permits a wide range of tax schedules to take care of the various

classes of vehicles and is readily adaptable to the requirements of any State. The formulas may be modified to suit changing conditions, and without alteration of the basic method of rating vehicles or the system of collecting fees. He believes that for some years to come, the three factors—weight, miles traveled, and tire type—may be used as the basis for rating all vehicles and for determining fees in all States. However, it will not be reasonable to use the same amounts or ranges of fees everywhere and for all time. Costs of highway construction, the types of road, and the total mileage of roads, vary from State to State and from time to time.

In working out the formulas, Mr. Marvin has acted on the theory that an equitable tax system is one that will distribute the cost among the different vehicles in such a manner that each vehicle is assessed according to the justification for taxing it. He believes the greatest justification for taxing is to defray the expenses incurred by the State as the result of the operation of motor vehicles. The first approximation to an equitable system, he assumes, would be one which would tax each vehicle in proportion as that vehicle is responsible for these expenses.

Taxes should also be imposed, Mr. Marvin says, so that they will penalize, wherever possible, those vehicles which are inefficient in their use of the highway or of the Nation's fuel resources. In each State taxes should determine for itself how much it wishes to spend on highways and what percentage of this amount should be financed by motor vehicle taxes.

The fuel tax possesses several advantages over registration fees, chief of which is that it automatically taxes a vehicle directly in proportion to the number of miles traveled. It brings more revenue per mile from the heavy truck than it does from the light passenger car, and taxes the fully loaded vehicle more than the empty one. The vehicle that is overweight, overpowered, and which has an inefficient engine and improperly adjusted carburetor, or excessive friction in any of its parts, pays a higher tax per mile than the well-designed and well-cared for vehicle of the same capacity.

At present there is no generally accepted basis for determining the amounts of fees for the various classes of vehicles or for the units within a class. Neither is there any agreement as to how the total tax levied by a State should be apportioned between the fuel tax and registration fees. Each State has selected its own method of levying fees with the result that at the present time vehicles are rated variously according to chassis weight, unladen weight, capacity, gross weight, horse-power, piston displacement, value, tire width, or tire type, as well as on several different combinations of two or more of these characteristics. Some States rate passenger cars and trucks on the same basis. All States impose fuel taxes of from 2 to 6 cents a gallon, but there is no consistent relation between the amounts of the fuel taxes and the amounts of registration fees.

IN NEW QUARTERS

The Vibbs Company of California, manufacturer of paint spraying equipment, etc., with head office and factory at Toledo, Ohio, is occupying new quarters at 831 Howard Street, San Francisco. According to A. O. Narveson, Pacific Coast manager, the company outgrew its former location at 512 Mission Street, and floor space has been increased 100% by this removal. The concern is carrying a much larger stock, and all the Pacific Coast States are served from this Western branch.

Building News Section

APARTMENTS

Contract Awarded.
APARTMENTS Cost, \$25,000
SAN FRANCISCO. N Greenwich St.
 W Steiner St.
 Three-story and basement frame and
 stucco apartments (12 apts.)
 Owner—G. B. Guaraglia, 2250 Chest-
 nut St.
 Plans by J. MacFarland, 2250 Chestnut
 Street
 Contractor—Henry Simmons, 2250
 Chestnut St.

Contract Awarded.
APARTMENTS Cost, \$168,000
LOS ANGELES, Cal. 939 S Serrano
 Street
 Seven-story and basement class A re-
 inforced concrete apts. (76x130-ft.)
 Owner—J. Braunstein.
 Architect—F. A. Brown, 1489 W Wash-
 ington St., Los Angeles.
 Contractor—Far West Const. Co., Pa-
 cific National Bank Bldg., Los An-
 geles.

Plans Completed.
APARTMENTS Cost, \$160,000
SAN FRANCISCO. Richmond District.
 Six-story steel frame and brick apts.
 (42 2-3-4- and 5-room apts.)
 Owner—Name Withheld.
 Architect—Irvine & Ebbets, Call Bldg.
 Sub-bids will be taken shortly.

Plans Being Prepared.
APARTMENTS Cost, \$40,000 each
SAN FRANCISCO. W Twenty-fifth
 Ave. S Cabrillo St.
 Two three-story and basement frame
 and stucco apartments (6 2-room
 and 6 3-room apts.)
 Owner and Builder—Fred Anderson,
 156 Granada St., San Francisco.
 Architect—Irvine & Ebbets, Call
 Bldg., San Francisco.

BONDS

GILROY, Santa Clara Co., Cal.—
 Gilroy Grammar School District will
 call election at once to vote a direct
 tax to secure funds to finance re-
 modeling of Church Street School.

CALISTOGA, Napa Co., Cal.—
 Trustees of the Calistoga Grammar
 School District contemplate election
 to vote bonds to finance erection of
 a new school. Previous election was
 defeated by a slight majority.

AUBURN, Placer Co., Cal.—City
 defeats proposal to issue bonds of
 \$7000 to finance erection of a head-
 quarters building for the fire depart-
 ment and \$33,000 to finance erection
 of a city hall and memorial building.

LE GRAND, Merced Co., Cal.—Le
 Grand High School District defeats
 proposal to issue bonds of \$75,000 to fi-
 nance construction of an auditorium,
 gymnasium and shop building at the
 high school grounds.

MARYSVILLE, Yuba Co., Cal.—Lin-
 da School District defeats proposal to
 issue bonds of \$9500 to finance erec-
 tion of two-classroom addition to pres-
 ent school.

FRESNO, Fresno Co., Cal.—Orange
 Center School District defeats propo-
 sal to vote bonds of \$3500 to finance

repairs and wing addition to the
 present school.

CHURCHES

Plans Being Prepared.
CHURCH Cost, \$100,000
SACRAMENTO, Sacramento Co., Cal.
 39th and J Sts.
 Two-story brick church.
 Owner—Roman Catholic Bishop (St.
 Stephen's Parish).
 Architect—Harry Devine, California
 State Life Bldg., Sacramento.
 Bids will be taken in about 4 weeks.

Preparing Working Drawings.
CHURCH Cost, \$30,000
NORTH OAKLAND, Alameda Co.
 Two-story frame and brick veneer
 church (auditorium to seat 570).
 Owner—Colored Baptist Church.
 Architect—Chas. W. McCall, 1404
 Franklin St., Oakland.

Plans Being Prepared.
CHURCH Cost, \$—
MADERA, Madera Co., Cal.
 Church educational unit.
 Owner—First Baptist Church, Madera
 Architect—Geo E. Merrill (Denomina-
 tional Architect), New York City.
 New York.

FACTORIES AND WARE- HOUSES

Contract Awarded.
WAREHOUSE Cost, \$43,778
SAN JOSE, Santa Clara Co., Cal.
 Race St. and Moorepark Ave.
 One-story reinforced concrete ware-
 house.
 Owner—United States Products Corp.,
 Premises.
 Architect—Binder & Curtis, 35 W-
 San Carlos St., San Jose.
 Contractor—R O. Summers, 17 N-
 First St., San Jose.

Contract Awarded.
PACKING SHED Cost, \$8172
SALINAS, Monterey Co., Cal.
 One-story vegetable packing shed.
 Owner—Monterey County Ice & De-
 velopment Co., Salinas.
 Architect—None.
 Contractor—E. M. Britt and Angus
 L. Vitelle, Salinas.

A Demonstration of the SKILSAW PORTABLE ELEC- TRIC HAND SAW

Will solve your cutting problems.
 (Four Models, 1/2 to 1 h. p.)

ELECTRIC HAMMERS ELECTRIC DRILLS GRINDERS, BUFFERS

PETER H. NELSON

Labor Saving Portable Electric
 Tools.

1222 Mission St.
 San Francisco

UNderhill
 1267

Plans Being Completed.
PLANT Cost, 1st unit, \$50,000
SAN JOSE, Santa Clara Co., Cal.
 Berryessa Road (15-acre site).
 One and two-story reinforced con-
 crete meat packing plant.

Owner—Continental Packing Co., Ltd.
 (represented by W. H. Luhrback,
 and Geo. F. Cokely), 1217 Park
 Ave., San Jose.
 Architect—Lescher & Mahoney, Pho-
 nix, Arizona.

Bids will be taken in one week by
 owner.
 All communications should be ad-
 dressed P. O. Box 334, San Jose.

Reinforcing Steel Contract Awarded.
BUILDING Cost, \$25,000
SAN FRANCISCO. N Mission St. bet.
 Fifth and Sixth Sts.

Two-story reinforced concrete build-
 ing.
 Owner—Mrs. T. Lyons.
 Architect—G. F. Ashley, 525 Market
 Street.
 Contractor—G. P. W. Jensen, 320 Mar-
 ket St.

Reinforcing Steel—W. C. Hauck Co.,
 289 San Bruno Ave.

As previously reported, excavation

awarded to Sibley Grading & Teaming

Co., 165 Landers St.

MODESTO, Stanislaus Co., Calif.—
 Until July 9, 7:30 P. M., bids will be
 received by H. E. Gragg, city clerk, to
 construct pump station. Certified
 check 10% payable to Mayor required
 with bid. Plans obtainable from Frank
 Rossi, city engineer.

Preparing Plans.
WAREHOUSE Cost, \$70,000
SAN PEDRO, Los Angeles Co., Cal.
 Ocean and Seaside Aves.
 Four-story reinforced concrete Class
 A warehouse (100x100 feet).

Owner—Crescent Wharf & Ware-
 house Co., Berth No. 233, San
 Pedro.
 Architect—J. C. Longueville, 1616
 Chelsea Road, San Marino.

Electrical Contract Awarded
MFG. PLANT Cost, \$35,000
SAN FRANCISCO. S Harrison St. W
 First St.

Two-story reinforced concrete manu-
 facturing plant.
 Owner and Builder—James Hjul, 128
 Russ St.

Plans by Owner.
 Lessee—Dalmo Mfg. Co., 449 Bryant
 Street
 Electric Work—Coney & Kuchel Elec.
 Works, 454 5th St.

As previously reported, plumbing
 awarded to Rodoni-Becker Co., 455
 10th St.

Contracts Awarded
CHEMICAL PLANT Cost, \$5,000,000
NICHOLS, Contra Costa Co., Cal.
 Near Pittsburg on 613 acre site.
 Chemical plant (comprising group of
 fireproof structures).

Owner—Shell Chemical Co. (subsidiary
 company of Shell Oil Co., San
 Francisco).

Architect—Eng. Dept. of Owner, Shell
 Oil Bldg., San Francisco.
 Contractor—George Wagner, Inc., 181
 South Park, San Francisco.

Electric Work—O. H. Armstrong Co.,
 2850 Howard St., San Francisco.

Contracts awarded on a portion of
 the work only.

Sub-Contracts Awarded
FACTORY Cost, \$80,000
BERKELEY, Alameda Co., Cal. No. 735 Zrayson Street.

Alterations to Class A factory.
 Owner—Philadelphia Quartz Co., Sixth and Grayson Sts., Berkeley.

Plans by Owner.
 Contractor—W. E. Lyon, 354 Hobart St., Oakland.

Concrete Materials—Contra Costa Building Material Co., 808 Gilman St., Berkeley.

Corrugated Asbestos Roofing—Johns-Manville Sales Corp., 159 New Montgomery St., San Francisco.

Structural Steel—Moore Drydock Co., Balfour Bldg., San Francisco.

Reinforcing Steel—McGrath Steel Co., 250 San Bruno Ave., San Francisco.

Sub-bids are wanted on glass and brick work.

OAKLAND, Calif.—Kenyon Electric Co., 626 13th St., at \$5,000 awarded contract by City of Oakland Port Commission, 424 Oakland Bank Bldg., for electric wiring for light and power at 9th Ave. Pier.

Low Bidder On Concrete Pile Driving.
INDUSTRIAL BLDG. Cost, \$—
SAN FRANCISCO. SE Russ St. and Howard St.

Three-story reinforced concrete industrial building.
 Owner—Eng-Skell Co., 208 Mission St.
 Engineer—A. C. Grewank, 208 Mission Street.

Low Bidder—M. B. McGowan, 74 New Montgomery St.

Work is being done by day's labor on 1-story wood and tile shed, 4,000 feet square. Roofing bids will be taken shortly.

WAREHOUSE Cost, \$45,000
 including equipment
LIVE OAK, Sutter Co., Cal.
 Fireproof warehouse and processing plant.

Owner—Walnut Growers Assn., N. F. Todd, President, Live Oak.
 Architect—Albert C. Martin, Higgins Bldg., Los Angeles.

Work will be started in about thirty days

Plans Being Figured—Bids Close July 15.

WAREHOUSE Cost, \$65,000
FRESNO, Fresno Co., Cal. R and Inyo Streets.

Two-story and basement brick distributing plant and warehouse, (100x150 feet).

Owner—United Grocers Inc. (J. B. Rhodes, Mgr.), Fresno.

Architect—Swartz & Ryland, Brix Bldg., Fresno.

Contract Awarded.
CLEANING WORKS Cost, \$3500
 (Machinery) \$5000

SAN JOSE, Santa Clara Co., Cal.
 One-story cleaning and dyeing works.
 Owner—De Luxe Dyeing & Cleaning Works, L. Seeliger, Prop.

Architect—None.

Contractor—A. M. Jensen, Los Gatos

Sheet Metal and Ventilating—Fred Berryman.

Preparing Working Drawings.

CREAMERY Cost, \$—
SAN FRANCISCO Eighteenth and York Sts. (137-62x200 ft.)

Two-story and basement Class B concrete creamery (foundations laid for two additional stories to be added later).

Owner—Challenge Creamery & Butter Assn., 807 Montgomery St., San Francisco.

Architect—Dodge Riedy, Pacific Bldg., San Francisco.

Bids will be taken in three or four weeks.

Completing Plans.
FACTORY Cost, \$25,000
OAKLAND, Alameda Co., Cal. 46th and Telegraph Aves.

Two-story reinforced concrete factory and warehouse.

Owner—Margaret Burnham Candy Co., 3800 Piedmont Ave., Oakland.

Plans by George Koster, 2355 Leavenworth St., San Francisco.

Bids will be taken in 17 days.

Plans To Be Prepared.
PLANT Cost, 1st unit, \$50,000

SAN JOSE, Santa Clara Co., Cal. Berryessa Road (15-acre site).

Meat packing plant (reinforced concrete construction).

Owner—Continental Packing Co., Ltd., (represented by W. H. Luhrback, and Geo. F. Cokely, San Jose).

Architect—Not Given.

More definite information will be given shortly.

GARAGES AND SERVICE STATIONS

Sub-Contracts Awarded.
GARAGE Cost, \$31,900

WATSONVILLE, Santa Cruz Co., Cal.
 One-story concrete garage.

Owner—W. W. Bendell, 213 Main St., Watsonville.

Architect—A. W. Story, Pajaro Valley Bank Bldg., Watsonville.

Contractor—F. T. Willstrom, Watsonville.

Reinforcing Steel—Soule Steel Co., Rio-alto Bldg., San Francisco.

Plumbing, Sheet Metal and Roofing—P. J. Freiermuth Co., Watsonville.

Painting—Jack Seekins, Watsonville.

Plastering—Robert Orr, Watsonville.

Glass—Central Hardware & Glass Co., 613 4th St., San Francisco.

Electric Wiring—Justrite Elec. Co., Watsonville.

Steel Rolling Doors—Kennerson Mfg. Co., 361 Brannan St., San Francisco.

Steel Sash—Fenster Window Co., Hunter-Dulin Bldg., San Francisco

Plans To Be Prepared.
GARAGE Cost, \$70,000

SACRAMENTO, Sacramento Co., Cal.
 Ninth St. bet. H and I Sts.

Fireproof garage and service station.

Owner—Austin J. Brennan, Goldfield, Nevada.

Architect—Selected.

Agents—Guer & Harrigan, 900 7th St., Sacramento.

More definite information will be given within a few days

Plans Completed.
GARAGE Cost, \$33,000

OAKLAND, Alameda Co., Cal. 26th and Webster Sts.

Two-story reinforced concrete garage and salesroom (100x200 ft.)

Owner—Fred E. Reed, Inc.

Architect—Reed & Corlett, Oakland Bank Bldg., Oakland.

Bids will be called for as soon as financing arrangements are completed

Construction To Start Soon.
GARAGE Cost, \$70,000

SACRAMENTO, Sacramento Co., Cal.
 9th St. bet. H and I Sts.

One-story brick garage and service station.

Owner—Austin J. Brennan, Goldfield, Nevada.

Plans by Mr. Look, Sacramento.

Contractor—Mr. Rae, premises.

GOVERNMENT WORK AND SUPPLIES

HAWTHORNE, Nevada.—National Electrical Supply Co., Washington, D. C., at \$2,784 (Item 2x) awarded contract by Bureau of Yards and Docks, Navy 11-partment, to furnish and install refrigerators and machines at the Naval Ammunition Depot, Hawthorne, Nev. Smoot-Holman Co., Inglewood, Calif., at \$1,140 awarded contract for show cases in connection with same project. Work provided for under Spec. No. 6146.

WASHINGTON, D. C.—Bids are being received by Bureau of Supplies and Accounts, Navy Department, Washington, D. C., to furnish and deliver miscellaneous supplies and equipment as noted in the following schedules, further information being available from the Navy Department Officer, 100 Harrison St., San Francisco:

Bids Open July 8

Western yards, steel and iron, sch. 3655.

Western Yards, rubber hose and washers, sch. 3654.

Mare Island, 1 motor-driven plate banding roll, sch. 3669.

Bids Open July 15

Mare Island, 400,000 lbs. white lead, sch. 3662.

Mare Island, 3300 lbs. copper tubing, sch. 3695.

Mare Island, 7000 lbs. dry cuprous oxide, sch. 3664.

Boston, Brooklyn and Mare Island, 8 motor-driven vegetable peeling machines and spares, sch. 3667.

Mare Island, 6 laundry washing machines, sch. 3681.

Puget Sound, 1 joggling hydraulic press, 1 do, sch. 3682.

Western yards, sheet rolled zinc, sch. 3674.

Western yards, tungsten and high speed steel hacksaw blades, sch. 3657.

Mare Island, 1 air motor-driven timber sawing machine, sch. 3678.

Bids Open July 18

Fuel oil for U. S. Navy reserve storage, navy yard, Pearl Harbor, T I., sch. 3700.

Bids Open July 22

Mare Island, 15,000 lbs. rolled manganese nickel, sch. 3707.

PRESCOTT, Arizona.—Following is a partial list of prospective bidders to erect postoffice, bids for which will be opened July 14 by Supervising Architect, Treasury Department, Washington, D. C.:

James T. Taylor, 1st National Bank Bldg., Ft. Worth, Texas.

English Const. Co., 1311 H Street, N. W., Washington.

Chas. Tottis, Prescott, Ariz.

Devault & Delitrick, Inc., Massillon Road, Canton, Ohio.

Walter Petersen, Wilkinson Bldg., Omaha, Nebr.

Yeager & Sons, Danville, Va.

G. F. Campbell Building Co., 406 California Bank Bldg., San Diego, Cal.

McGinty Const. Co., Phenix, Ariz.

Hiram Lloyd Building & Construction Co., Syndicate Trust Bldg., St. Louis.

Los Angeles Const. Co., 4516 W Pico Blvd., Los Angeles, Calif.

The H. W. Underhill Const. Co., Inc., 35 N. Vasco Ave., Wichita, Kas.

English Const. Co., 15 W 91st St., New York City.

M. H. Golden, 404 California Bank Bldg., San Diego, Calif.

OAKLAND, Cal.—Until July 24, 3 P. M., bids will be received by U. S. Engineer Office, Customhouse, San Francisco, for dredging in Oakland Harbor. Specifications obtainable from above office.

SACRAMENTO, Cal.—Until July 7, 3 P. M., under Order No. 2148-1660, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver Rio Vista, Solano County, 5000 lbs. welding rods, 3-in. by 14-in. long, in 50 lb. bundles.

Site and Lease Building Bids Being Taken—To Be Opened July 9.
GARAGE. Cost, \$500,000.
SAN FRANCISCO. Within one-half mile radius of intersection of Market St. and the Embarcadero.
One- or two-story reinforced concrete garage.
Lessee—U. S. Government.
Architect—Supervising Architect Treasury Dept., Washington, D. C.
Bids are to be opened in Washington.

Under previous bid opening, following bids were received. Price is given for an average yearly rental for a period of ten years:

Roy Sealey, Los Angeles, 5th and Howard Sts., 69,700 sq. ft., \$47,250.

Joseph Greenback, San Francisco, NE Union and Battery Sts. (2-story building) 44,200 sq. ft., \$34,750; (2-story building) 58,000 sq. ft., \$41,250; (3-story building) 67,500 sq. ft., \$45,000.

Zellerbach Levinson Co., Clay and Embarcadero, 62,000 sq. ft., \$78,000; Beale and Brannan Sts., 53,000 sq. ft., \$65,250; 60 Beale St., 57,000 sq. ft., \$36,000.

American Trust Co., San Francisco, Washington, and Embarcadero Streets, 55,000 sq. ft., \$57,000.

MacDonald & Kahn, San Francisco, NE Battery and Union Sts., 45,000 sq. ft., \$40,500; Folsom St. bet. Main and Beale, 52,000 sq. ft., \$72,000.

The Lurie Co., San Francisco, Beale and Main Streets bet. Harrison and Brannan, 55,000 sq. ft., \$53,700.

SAN FRANCISCO — Geckler & Rocca at \$1267 awarded contract for Building No. 62 and R. P. Paoli at \$639 awarded contract for building No. 35 by Constructing Quartermaster, Fort Mason, for interior painting of ward buildings at Letterman General Hospital. Following is a complete list of bids:

(1) Building No. 62; (2) Building No. 35.

Geckler & Rocca (1) \$1267; (2) \$922.
Commercial Painting Co. (1) \$1280; (2) \$900.

Monroe Moore (1) \$1345; (2) \$1425.

E. Kahler (1) \$1460; (2) \$1240.

R. P. Paoli (1) \$1490; (2) \$639.

Piedmont Pacific Painting & Decorating Co. (1) \$1498; (2) \$897.

D. Krueger & Epstein (1) \$1550; (2) \$940.

D. E. Burgess (1) \$1564; (2) \$774.

Joel Johnson (1) \$3500; (2) \$1850.

SAN FRANCISCO — Automatic Sprinkler Corp. of America, 513 California Street, at \$1162 submitted lowest bid to Constructing Quartermaster, First Mason, for automatic sprinkler system, to be installed in Film Vault Bldg. No. 27, at Letterman General Hospital.

Following is a complete list of bids:
Automatic Sprinkler Corp. \$1162
Globe Automatic Sprinkler Co. 1210
Fred W. Snook 1330
P. L. Burr 1398
Bids held under advisement.

SACRAMENTO, Cal.—Until July 8, 3 P. M., under Order No. 2132, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver 137 tons of steel sheet piling (cut to 10-ft. lengths). Material will be used for driving a wall approximately 1,300-ft. long and 10-ft. deep. Further information obtainable from above.

SAN FRANCISCO.—Until July 7, 2 P. M., bids will be received by U. S. Forest Service, Ferry Bldg., to furnish and deliver two light auto delivery and three 1½-ton trucks. Further information obtainable from above.

SACRAMENTO, Cal.—Until July 9, 3 P. M., under Order No. 2143, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver powder suitable for blasting in water, together with tape, explosives and blasting caps. Further information obtainable from above.

SACRAMENTO, Cal.—Until July 7, 3 P. M., under Order No. 2131, bids will be received by U. S. Engineer Office, California Fruit Bldg., for hire of sternwheel towboat and hire of barge for a period of 60 days for work in the Sacramento river between Sacramento and Colusa.

SAN FRANCISCO—Malott & Petersen, 3221 20th St., at \$554 awarded contract by Constructing Quartermaster, Fort Mason, for magnesite flooring for general mess hall No. 10 at Letterman General Hospital.

SAN FRANCISCO—Jones Bros. Asbestos Roof Co., 370 2nd St., at \$345 awarded contract by Constructing Quartermaster, Fort Mason, for asbestos roofing for building No. 38 at Letterman General Hospital.

HAWTHORNE, Nevada —Until July 2, under Specification No. 6162, bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., to install fire alarm system consisting of call boxes, accessory equipment and wiring at Naval Ammunition Depot, Hawthorne, Nevada, Naval Ammunition Depot. Deposit of \$10 required for plans obtainable from above.

STOCKTON, San Joaquin Co., Cal.—Until August 26, 3 P. M., bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, to construct certain levees or embankments by dragline excavators, along the San Joaquin River, at and below Stockton, in connection with the San Joaquin River and Stockton Channel project. This work under Circular Proposal No. 30-272, Specifications 1670. Deposit of \$3.50 required for plans obtainable from above office.

STOCKTON, San Joaquin Co., Cal.—Until August 26, 3 P. M., bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, under Circular Proposal No. 30-270, Specifications No. 1668, to construct certain levees or embankments by clamshell dredges along the San Joaquin River, below Stockton, in connection with the construction of the San Joaquin River and Stockton Channel project. Specifications obtainable from above office on deposit of \$3.50, returnable.

SAUSALITO, Marin Co., Cal.—Constructing Quartermaster, Fort Mason, San Francisco, is preparing plans for installation of approximately 7000 ft. of gas mains between Sausalito and Fort Baker.

SAN FRANCISCO—Malott & Petersen, 3221 20th St., at \$554 submitted lowest bid to Constructing Quartermaster, Fort Mason, for magnesite flooring for general mess hall No. 10, at Letterman General Hospital.

Following is a complete list of bids: Malott & Petersen, \$554; Fibrestone

Roofing Co., \$690; Marosky Co., \$758; Fred P. Oelerich, \$1,089; Sinclair Mfg. Co., \$1,122. Bids held under advisement.

SAN FRANCISCO.—Jones Bros. Asbestos Roof Co., 370 2nd St., at \$345 submitted lowest bid to Constructing Quartermaster, Fort Mason, for asbestos roofing for building No. 38 at Letterman General Hospital.

Following is a complete list of bids: Jones Bros. Asbestos Roof Co., \$345; Alta Roofing Co., \$404; Phoenix Simpson Co., \$417; Malott & Petersen, \$461. Bids held under advisement.

HAWTHORNE, Nev.—Following is a complete list of bids received June 18 by Bureau of Yards and Docks, Navy Department, under Specification No. 6146, for refrigerators and machines at Naval Ammunition Depot, Hawthorne:

Item 1, refrigerating unit, etc.; 2, refrigerators and machines; 3, display cases.

The Stern Co., Washington, item 3, \$1225.

National Elec. Supply Co., Washington, item 2, \$2784.

Smoot-Holman Co., Ingelwood, Cal., item 3, \$1140.

Oscar Housen, 120 W 2nd St., Reno, Nev., item 1, \$4700; 2, \$2350; 3, \$1450.

Weber Show Case & Fixture Co., Inc., Los Angeles, Calif., item 3, \$1390.

Parker Ice Machine Co., San Bernardino, Calif., item 1, \$4312.40; 2, \$3,512; 3, \$1510.

Savage & Son, Reno, Nev., item 1, \$4333.

All bids rejected and new bids will be asked.

KLAMATH FALLS, Ore.—George Isackson, 1015 East Irving St., Portland, Ore., at \$167,130 awarded contract by Supervising Architect, Treasury Department, Washington, D. C., to erect post office building. Otis Elevator Co., 810 18th St., N. W., Washington, D. C., at \$6567 awarded contract to install passenger elevator.

HAWTHORNE, Nevada — Bert L. Perry, Inc., 222 Douglas Bldg., Los Angeles, at \$10,632 awarded contract by Bureau of Yards and Docks, Navy Department, Washington, D. C., under Specification No. 6143, to install automatic telephone system at Naval Ammunition Depot.

HAWTHORNE, Nevada — Pacific Sash & Door Co., 6609 Lexington Ave., Los Angeles, at \$7500 awarded contract by Bureau of Yards and Docks, Navy Department, to install window screens at Naval Ammunition Depot. Elkeles, Inc., Ltd., 1200 West 8th St., Los Angeles, at \$1109.50 awarded contract to furnish and install window shades.

Commissioned To Prepare Plans.
POST OFFICE. Cost, \$1,237,500.
PORTLAND, Oregon
Class A Post Office and Federal Courts Building (ground area 116,000 square feet).

Owner—United States Government.
Architect—Morris H. Whitehouse and Associates, Railway Exchange Bldg., Portland.

Plans Completed.
BUILDINGS. Cost, \$115,000.
FLAGSTAFF, Arizona. Fort Tuthill Arizona National Guards buildings.
Owner—United States Government.
Architect—None.

Bids will be advertised for shortly. Major Rollin W. Shaw, U. S. Property & Disbursing Office, in charge.

SAN FRANCISCO.—A. G. Ralsch, 46 Kearny St., submitted lowest bid to Constructing Quartermaster, Fort Mason, for asphaltic or concrete roads, concrete sidewalks, concrete steps, gutters, culverts and general grading. Following is a complete list of bids:

(1) asphaltic roads; (2) concrete roads. A. G. Ralsch, (1) \$5400; (2) P. F. Speidel, (1) \$11,000; (2) \$9600. John P. Lawlor, (1) \$8637; (2) \$8221. P. L. Burr, (1) \$9635; (2) \$11,973. Chas. L. Harney, (1) \$9900; (2) \$9900. Fay Imp. Co., (1) \$10,500; (2) \$9650. P. McHugh, (1) \$16,240; (2) \$14,527. Bids held under advisement.

SAN FRANCISCO.—McCarthy and Johans, San Francisco at \$161 awarded contract by Public Works Office, 12th Naval District, 100 Harrison St., to provide and secure an inclosing partition in corner of office on third floor of Marine Corps Depot of Supplies, 100 Harrison St.

SAN FRANCISCO.—A. G. Ralsch, 46 Kearny St., at \$5400 awarded contract by Constructing Quartermaster, Fort Mason, for asphaltic roads, concrete sidewalks, concrete steps, gutters, culverts and general grading.

SAN FRANCISCO.—Severin Electric Co., 172 Clara St., at \$5661 awarded contract by Constructing Quartermaster, Fort Mason, for installation of night lighting system at Crissy Field, Presidio.

HALLS AND SOCIETY BUILDINGS

Contract Awarded.

ALTERATIONS Cost, approx. \$12,000 OAKLAND, Alameda Co., Calif. 12th St. and Clay Sts.

Renodel present club building.

Owner.—Athens Club.

Architect.—John J. Donovan, Tapscott Bldg., Oakland.

Contractor.—Dyer Const. Co. Ray Bldg., Oakland.

Work involves changes in the steam heating system, and enlargement of steam and hot room facilities.

Low Bidder On Footings.

CLUB HOUSE Cost, \$60,000 BELVEDERE, Marin Co., Cal.

One-story frame and stucco club house Owner.—San Francisco Yacht Club.

Architect.—H. H. Guttererson, 526 Powell St., San Francisco.

Low Bidder.—Raymond Concrete Pile Co., Hunter-Dulin Building, San Francisco.

Bids ran higher than anticipated. Temporarily held up.

Plans Being Completed.

RECREATION BLDG. Cost, \$100,000 SANTA CRUZ, Santa Cruz Co., Cal.

Two-story reinforced concrete recreation building (swimming pool, bowling alleys, etc.)

Owner.—Interstate Recreation Corp., Ltd., J. E. Munjar, Phelan Bldg., San Francisco, president.

Architect.—Joseph L. Stewart, Federal Reserve Bank Bldg., San Francisco.

Bids will be taken in about 2 weeks.

SACRAMENTO, Cal.—Veterans Affiliated Council has petitioned the county supervisors to erect a veterans' building at a cost of \$450,000 under a 5-year tax program. The necessary funds could be raised by a tax rate of 3 mills on each dollar of the annual assessed valuation, according to the committee's plan. The county's assessed property valuation each year amounts to \$450,000,000 and the sum for veteran buildings would be \$90,000 a year. An additional tax levy of one-eighth mill to secure an annual maintenance fund of \$18,750 is also proposed.

An advisory committee from the veterans' organizations would act to supervise construction, the plan states. The Sacramento structure would house all veteran bodies, as well as an auditorium, banquet room and clubrooms.

Bids To Be Taken Within One Week.

GYMNASIUM Cost, \$35,000 VALLEJO, Solano Co., Cal. York and Santa Clara Sts.

One-story gymnasium (type of construction not decided (30x56-ft.))

Owner.—Naval Y. M. C. (W. T. Willie, manager), Vallejo.

Plans by Owner.

Bids will be taken for a general contract.

HOSPITALS

ALTURAS, Modoc Co., Cal.—County supervisors have withdrawn call for bids to furnish and install steam heating plant in Modoc County Hospital pending the making up of the county budget.

Plans Being Figured—Bids Close July 24

HOSPITAL Cost, \$— SAN BERNARDINO, San Bernardino Co., Cal. SE Highland and Waterman Aves.

Five-story Class A reinforced concrete hospital (200x200 ft.) and 3-story reinforced concrete chapel and convent (100x100 ft.)

Owner.—Sisters of Charity.

Architect.—I. E. Loveless, Robertson Bldg., Beverly Hills.

Plans Being Figured—Bids Close July 14, 2 P. M.

FLOOR COVERING Cost, \$— MODESTO, Stanislaus Co., Cal.

Floor covering for hospital (including linoleum, mats and runner) for Unit No. 2 Ward Bldg. at County Hospital.

Owner.—County of Stanislaus, C. C. Eastin, county clerk, Modesto.

Architect.—R. G. deLappe, and Vladimir Gledu, 1710 Franklin St., Oakland.

Specifications on file in office of the county clerk at Modesto and obtainable from architects.

See call for bids under official proposal section in this issue.

HOTELS

Planned.

HOTEL Cost, \$1,000,000 HOLLYWOOD, Los Angeles Co., Cal.

N. Hollywood Blvd. E Vine St.

Limit height Class A hotel (600 rooms).

Owner.—Hollywood Business Properties, 6331 Hollywood Blvd., Los Angeles.

Architect.—Not Selected.

Thirty-seven year lease has also been acquired on NW Hollywood Blvd. and Hudson Avenue.

Plans Being Completed.

HOTEL Cost, \$— YAKIMA, Wash. SW Yakima Ave. and Fourth St.

Two hundred-room hotel (75% baths) with central tower 14 stories high

Owner.—J. Von Herberg, Yakima.

Architect.—J. W. Maloney, Yakima

Contract Awarded.

ADDITION Cost, \$16,797 SAN ANDREAS, Calaveras Co., Cal.

Two-story brick addition to present hotel (24 rooms).

Owner.—William Treat, San Andreas.

Architect.—Chas. H. Young, Bank of Italy Bldg., Stockton.

Contractor.—Frank P. Guyon, 1211 E Main St., Stockton.

SANGER, Fresno Co., Calif.—J. A. Brattan, manager of the Sanger Lumber Co., Sanger, will have plans prepared for a hotel and cottage group in the Kings River Canyon, about 40 miles from the General Grant National Park.

Planned.

HOTEL & SHOP Cost, \$870,000 LOS ANGELES, Cal. SE 7th St. and Union Ave.

Limit height hotel and shop building (120x117-ft.)

Owner.—Lincoln Leaschold Corporation Roosevelt Bldg., Los Angeles.

Architect.—Not Selected.

POWER PLANTS

Permit Applied For.

STATION Cost, \$135,000 LOS ANGELES, Cal. No. 2904

Eleventh Street.

Two-story Class A brick electric station (74x103 feet).

Owner and Builder.—Bureau of Power & Light of Los Angeles.

Architect.—Eng. Dept. of Owner.

LOS ANGELES, Calif.—Until 10 A. M., July 8, bids will be received by D. P. Nicklin, purchasing agent, Los Angeles water and power bureau, for fibre conduit and bends, under Adv. 1364, involving:

(1) 16,000 ft. (one min. carload) straight fibre conduit, inside dia. 4-in. wall thickness 3/8-in.

(2) 50 4-in. 90-deg. conduit fibre bends, f.o.b. cars Davies Extension spur S. P. delivery, or f.o.b. trucks

department's warehouse, 257 E 3rd Street.

MONTEREY, Monterey Co., Cal.—Pacific Gas & Electric Co. has authorized installation of additional transformer equipment at the Monterey sub-station; estimated cost \$60,000. The equipment to be installed consists of four new transformers of approximately 10,000 h.p. capacity with other auxiliary apparatus.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

Preliminary Plans Approved—Working Drawings Ordered Prepared.

JAIL Cost, \$100,000 SALINAS, Monterey Co., Cal.

Fireproof county jail (accommodation for 100 prisoners).

Owner.—County of Monterey.

Architect.—Reed & Corlett, Oakland Bank Bldg., Oakland.

FRESNO, Fresno Co., Cal.—City council rejects bids to erect addition to city hall and construction has been postponed until sufficient funds are available.

The low bid was submitted by Jolly & Harrington of Fresno at \$719.

Site Purchased—Plans To Be Prepared.

PRISON Cost, \$365,000 TEHACHAPI, Kern Co., Cal. In Cummings Valley.

Women's State Prison.

Owner.—State of California.

Architect.—State Department of Public Works, Division of Architecture.

Geo. B. McDougall, state architect, Public Works Bldg., Sacramento.

Preliminary plans call for early construction of two cottages for women at a cost of \$90,000; administration building, \$150,000; steam plant, \$30,000; sewage system, \$50,000; industrial building, \$30,000; warehouse, \$7,000; farm buildings, \$10,000 and laundry plant, \$23,000. These units, when completed, will accommodate 120 women prisoners.

Contract Awarded.
GUARD HOUSE Cont. Price, \$15,750
YOUNGVILLE, Napa Co., Cal. Vel-
grams' Home.

Two-story reinforced concrete guard
house (tile roof; 30x70 ft.)
Owner—State of California.
Architect—Geo. B. McDougall, Public
Works Bldg., Sacramento.
Contractor—Gaubert Bros., 4735 Brook-
dale Ave., Oakland.

Plans Being Figured—Bids Close July
15, 10 A. M.
LOOK STACKS Cost, \$—
BERKELEY, Alameda Co., Cal. Kitt-
redge St. and Shattuck Ave.
Furnish and install steel book stacks
in library.

Owner—City of Berkeley, Florence E.
Turner, City Clerk.
Architect—James W. Plachek, Mer-
cantile Bank Bldg., Berkeley.

Certified check 10% payable to city
required with bid. Specifications ob-
tainable from architect on deposit of
\$10, returnable.

FOLSOM, Sacramento Co., Cal.—
Spencer Elevator Co., 166 7th St., San
Francisco, at \$3695 awarded contract
by State Department of Public Works,
Division of Architecture, to furnish
and install elevator in new hospital
building at Folsom Prison.

LOS ANGELES, Cal.—Until 2 P. M.,
July 14, bids will be received by
county supervisors for construction
of granite stairway at main entrance
to Class A building known as Unit
No. 2, County Museum at Exposition
Park, Edwin Bergstrom, Myron Hunt,
Pierpont Davis, Sumner P. Hunt, Wil-
liams Richards, 1136 Citizens Bank
Bldg., Los Angeles, architects. Plans
may be obtained from the county ar-
chitect upon deposit of \$25.

Sub-Bids Being Taken.
FIRE HOUSE Cost, \$—
SAN FRANCISCO. W 18th Ave. 225
N Rivera St.
Mission and Spanish type 50 by 120-ft.
fire house (cement plaster and holo-
low tile construction).

Owner—City and County of San Fran-
cisco.
Architect—Bureau of Architecture,
Board of Public Works, 2nd floor,
City Hall.

Contractor—Frank J. Reilly, 6340 Ful-
ton Street.
Subbids are wanted on all portions
of the work.

As previously reported, electrical
work awarded to Atlas Electric Co.,
343 Fourth St., at \$1,640; plumbing to
Thomas Skelly, 1344 9th Ave., at \$6,-
471.

SACRAMENTO, Calif.—M. G. West
Co., 117 Front St., San Francisco, sub-
mitted lowest bid to county clerk for
constructing mezzanine floor and for
installation of equipment in the office
of the recorder, Sacramento County
Courthouse, Charles W. Deterding,
county engineer. All bids held under
advertisement.

RESIDENCE

Sub-Bids Being Taken.
RESIDENCE Cost, \$11,000
SAN MATEO, San Mateo Co., Calif.
Baywood Park.
Two-story frame and stucco residence
(7 rooms).
Owner—Enri Cavasso, 235 Third St.,
San Mateo.
Plans by Owner.
Contractor—Sierra Const. Co., 235 3rd
St., San Mateo.
Construction will be started within
one week.

Plans Being Prepared.
RESIDENCE Cost, \$10,000
SAN JOSE, Santa Clara Co., Cal. Wil-
low Grand Way.
One-story frame and stucco residence
(6 rooms).
Owner—Mr. Van Dolsen, San Jose.
Architect—Wolfe and Higgins, Realty
Bldg., San Jose.
Bids will be taken in one week.

Contract Awarded.
RESIDENCE Cost, \$14,000
SARATOGA, Santa Clara Co., Calif.
Glen Una Tract bet. Saratoga and
Los Gatos.
Two-story frame and stucco residence
(7 rooms, 3 baths).
Owner—Major General Frank Winn.
Architect—Birge M. Clark, 310 Uni-
versity Ave., Palo Alto.
Contractor—Wells P. Goodenough, 310
University Ave., Palo Alto.

Sub-Bids Being Taken.
RESIDENCE Cost, \$—
HILLSBOROUGH, San Mateo Co., Cal.
Two-story frame and stucco residence
(10 rooms).
Owner—J. D. Bromfield.
Architect—Parr & Ward, 68 Post St.,
San Francisco.
Contractor—G. W. Williams Co., 1494
Broadway, Burlingame.

Sub-Bids Being Taken.
RESIDENCE Cost, \$15,000
SAN RAFAEL, Marin Co., Cal.
Two-story frame and stucco residence
Owner—H. M. Rutgers.
Architect—N. W. Sexton, deYoung
Bldg., San Francisco.
Contractor—Otis H. Smith, Freitas
Bldg., San Rafael.

Plans Being Figured—Bids Close July
3rd.
RESIDENCE Cost, \$25,000
PALO ALTO, Santa Clara Co., Calif.
Two-story frame and stucco residence
(9 rooms and 4 baths).
Owner—Andrew Field.
Architect—Birge M. Clark, 310 Uni-
versity Ave., Palo Alto.

Sub-Bids Being Taken.
RESIDENCE Cost, \$25,000
HILLSBOROUGH, San Mateo Co.,
Cal. Woodstock.
Two-story frame and stucco residence
(8 rooms) (English type).
Owner—J. H. Spamer, 501 W. Poplar
St., San Mateo.
Architect—Grimes & Schoening, Bal-
ovich Bldg., San Mateo.
Contractor—G. W. Williams Co., Ltd.,
1404 Broadway, Burlingame.

Sub-bids are being taken from local
sub-contractors.

Plans Being Figured—Bids Close July
2nd.
RESIDENCE Cost, \$7000
SACRAMENTO, Sacramento Co., Cal.
St. Francis Oaks.
One-story frame and stucco residence
(5 rooms).
Owner—L. G. Lentz, 2548 41st Street,
Sacramento.
Architect—Dean and Dean, California
State Life Bldg., Sacramento.

Additional Sub-Contracts Awarded.
RESIDENCE Cont. price, \$21,928
SAN FRANCISCO, N Lake Street W
Finnston Ave.

Two-story and basement frame and
stucco residence.
Owner—H. B. Allen, Inc., 168 Sutter
Street.

Architect—Hyman & Appleton, 68 Post
Street.

Contractor—Jacks & Irvine 74 New
Montgomery St.

Brick Work—Wm. A. Rainey & Son,
323 Clementina St.

Dampproofing and Tile Roof—Malott
& Petersen, 3221 20th St.

Ornamental and Miscellaneous Iron—
Monarch Iron Works, 262 7th St.

Mill Work—Brannan St. Planing Mill
Stairs—Franklin Phillips, 718 Bryant

As previously reported, grading con-
tract awarded to Fionbo Bros. & Co.,
1269 14th Ave.; plumbing to J. J. Mc-
Leod, 1246 Golden Gate Ave.; plastering
to Robt. Starrett, 227 13th Street;
electric work to Atlas Elec. & Eng.
Co., 343 4th St.; glass to Tyre Bros.,
666 Townsend St.; heating to E. Sug-
arman, 3824 Geary St.

Bids Opened—Held Under Advisement
RESIDENCE Cost, \$—
HILLSBOROUGH, San Mateo Co., Cal.
Two-story frame and stucco residence.
Owner—Major A. J. Watson, 165 War-
ren Road, San Mateo.
Architect—E. Musson Sarpe, 525 Mar-
ket St., San Francisco.

Bids Opened—Held Under Advisement
RESIDENCE Cost, \$20,000
SAN FRANCISCO, Pacific Avenue.
Two-story brick veneer residence.
Owner—Mrs. E. Lent, 2100 Jackson St.
Architect—E. J. Osborne Balboa Bldg.

Preliminary Plans Being Prepared.
ALTERATIONS Cost, \$12,000
HILLSBOROUGH, San Mateo Co., Cal.
Alterations and additions to residence.
Owner—Name Withheld.
Architect—E. L. Norberg, 580 Market
St., San Francisco.

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Contract Awarded.
RESIDENCE Cost, \$12,000
HILLSBOROUGH, San Mateo Co., Cal.
One-story and basement frame and
stucco residence.
Owner—W. E. Stanley, 523 Occidental
Ave., San Mateo.
Architect—Ed. M. Sharpe, 525 Market
St., San Francisco.
Contractor—Oscar L. Cavanaugh, 437
Occidental Ave., San Mateo.

Brick Bids Wanted.
RESIDENCE Cost, \$20,000
OAKLAND, Alameda Co., Cal. Clare-
mont Pines.
Two-story brick veneer residence (12
rooms).
Owner and Builder—J. M. Walker, 1709
Grove St., Berkeley.
Plans by Owner.

Plans Being Revised.
RESIDENCE Cost, \$9000
PALO ALTO, Santa Clara Co., Calif.
Crescent Park.
One and one-half story frame and
stucco residence (7 rooms, 2 baths)
Owner—Henry Schwartz.
Plans by Grimes & Schoening, Bal-
ovich Bldg., San Mateo.
Previously reported to be erected in
San Carlos

To Be Done By Day's Work By Owner
RESIDENCE Cost, \$10,000
OAKLAND, Alameda Co., Cal. North
Paramount South Longridge.
Two-story frame and stucco residence
(8 rooms).
Owner and Builder—J. R. Armstrong,
4157 Greenwood Ave., Oakland.

Working Drawings Being Prepared.
RESIDENCE Cost, \$12,000
SANTA ROSA, Sonoma Co., Cal.
Two-story frame and stucco residence
Owner—Thos. J. Proctor, Santa Rosa.
Plans by George E. Koster, 2355 Leav-
enworth St., San Francisco.
Bids will be taken in two weeks.
There will be 5 more residences con-
structed by same owner at a later
date.

Plans Being Figured—Bids Close July
7th.
RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Cal.
Owner—Withheld.
Architect—Swartz & Ryland, Spazier
Bldg., Monterey; 373 Main St., Sa-
linas, and Brix Bldg., Fresno.

Sub-Figures Being Taken.
RESIDENCE Cost, \$6500
SAN FRANCISCO. S Crescent W Ag-
non St.
One-story and basement frame and
stucco residence.
Owner and Builder—A. R. Johnson,
3901 Mission St.
Plans by D. E. Jaekle, Call Bldg.

Preparing Preliminary Plans.
RESIDENCE Cost, \$15,000
SAN RAFAEL, Marin Co., Cal.
Two-story and basement frame and
stucco residence (9 rooms, 2 baths)
Owner—Harry Albert, San Rafael.
Architect—S. Heiman, 57 Post St., San
Francisco.

Sub-Contracts Awarded.
RESIDENCE Cost, \$—
HILLSBOROUGH, San Mateo Co., Cal.
Two-story frame and stucco residence
(10 rooms).
Owner—J. D. Bromfield.
Architect—Farr & Ward, 68 Post St.,
San Francisco.
Contractor—G. W. Williams Co., 1404
Broadway, Burlingame.
Mill Work—San Mateo Planing Mill,
San Mateo.
Lumber—Wisnom Lumber Co., San
Mateo.
Concrete—G. Adolphson, San Mateo.
Glass—Cobbledick-Kibbe Glass Co., 666
Howard St., San Francisco.

Preparing Working Drawings.
RESIDENCE Cost, \$10,000
ORINI-A, Contra Costa Co., Cal.
One-story frame and stucco residence
(8 rooms).
Owner—Prof. Hall, University of Cal-
ifornia, Berkeley.
Architect—William Rich, Orinda.
Bids will be taken in about three
weeks.

To Be Done By Day's Work By Owner
RESIDENCE Cost, \$11,000
REDWOOD CITY, San Mateo Co., Cal.
No. 976 Durlston Road.
One-story and basement frame and
stucco residence (6 rooms and 2
baths).
Owner and Builder—F. & M. Carlisle,
Premises.
Architect—None.

Contract Awarded
RESIDENCE Cost, \$10,000
PALO ALTO, Santa Clara Co., Cal.
No. 1815 Waverly Street.
One-story frame and stucco residence
Owner—A. M. Donaldson, 1821 Waver-
ly St., Palo Alto.
Architect—None.
Contractor—C. L. Sanford, % Owner

Contract Awarded.
RESIDENCE Cost, \$12,000
PIEDMONT, Alameda Co., Cal. No.
15 Terrace Ave.
Two-story frame and stucco residence
(7 rooms and garage).
Owner—Timothy Colvin.
Architect—Ray Keefer, 3281 Lake-
shore Ave., Oakland.
Contractor—C. W. Lukens, 1108 Un-
derhills Road, Oakland.

Construction Under Way.
BUILDINGS Cost, Approx. \$30,000
HILLSBOROUGH, San Mateo Co.
Frame and stucco buildings (green-
houses, potting house, etc.)
Owner—E. E. Hills.
Architect—Ed. Musson Sharpe, 525
Market St., San Francisco.
Contractor—Oswald & Rucker, Mills
Bldg., San Francisco.
There will be considerable land-
scape work.

Contract To Be Awarded.
RESIDENCE Cost, \$16,000
REDWOOD CITY, San Mateo Co., Cal.
Ave. (outside Berkeley).
Two-story and basement frame and
stucco residence (8 rooms, and 3
baths).
Owner—Mrs. Virginia Mahl, Oakland.
Plans by A. L. Herberger, 3281 Lake-
shore Ave., Oakland.
Contractor—Irwin Reimers, 745 Wala
Vista, Oakland.

Contract Awarded.
RESIDENCE Cost, \$12,000
SARATOGA, Santa Clara Co., Cal.
One-story and basement hollow tile
residence (6 rooms and garage).
Owner—Harry Bogart, 609 Sutter St.,
San Francisco.
Architect—Binder & Curtis, 35 W San
Carlos St., San Jose.
Contractor—S. Kemphorne, % owner.

Sub-Bids Being Taken.
RESIDENCE Cost, \$18,500
SAN MATEO, San Mateo Co., Cal.
Baywood Tract.
Two-story frame and stucco residence
(9 rooms and 3 baths).
Owner—Herbert A. Thayer.
Plans by Grimes & Schoening, Bal-
ovich Bldg., San Mateo.
Contractor—Buschke & Johnson, 233
Third St., San Mateo.

Plans Being Figured.
RESIDENCE Cost, \$20,000
BERKELEY, Alameda Co., Cal.
North Cragmont.
Two-story frame and stucco residence
Owner—Alvin C. Richards.
Architect—E. L. Snyder, 2101 Addi-
son St., Berkeley.

Date Of Opening Bids Postponed Until
July 2, 2 P. M.
BUNGALOWS Cost, \$18,000
MONTEREY, Monterey Co., Cal. El
Dorado and Monraz Sts.
One-story frame and stucco bunga-
low court.
Owner—Mrs. Haskell.
Architect—W. W. Hastings, Tyler St.,
Monterey.

Contract Awarded.
RESIDENCE Cost, \$39,000
HEALDSBURG, Sonoma Co., Cal.
Two-story brick veneer residence.
Owner—O. A. White.
Architect—E. J. Osborne, Balboa Bldg.,
San Francisco.
Contractor—Walter Singleton, Peta-
luma.

Segregated Bids Being Taken.
BUNGALOWS Cost, \$6000
REDWOOD CITY, San Mateo Co., Cal.
Two 1-story and basement frame and
stucco bungalows (5 rooms each).
Owner—Mr. Pierce, care architect.
Architect—Enri Cavasso, 235 3rd Ave.,
San Mateo.
There will be nine residences erect-
ed by the same owner at a later date.

RESIDENCE Cost, \$30,000
SAN FRANCISCO. Santa Rita and
San Marcos Sts.
Two-story frame and stucco residence
(8 rooms).
Owner—Cleveland Wright, Insurance
Exchange Bldg., San Francisco.
Architect—Farr and Ward, Foxcroft
Bldg., San Francisco.

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Sub-Figures Being Taken.
RESIDENCE Cost, \$10,500
 HILLSBOROUGH, San Mateo Co.
 Two-story and basement frame and stucco residence.
 Owner—D. Clark.
 Architect—Ed. Mussen Sharpe, 525 Market St., San Francisco.
 Contractor—Oscar L. Cavanaugh, 432 Occidental Ave., San Mateo.

Sub-Contracts Awarded.
RESIDENCE Cost, \$25,000
 HILLSBOROUGH, San Mateo Co., Cal.
 Woodstock.
 Two-story frame and stucco residence (8 rooms; English type).
 Owner—J. H. Spamer, 501 W. Poplar St., San Mateo.
 Architect—Grimes & Schoening, Balovich Bldg., San Mateo.
 Contractor—G. W. Williams Co., 1404 Broadway, Burlingame.
 Mill Work—San Mateo Planing Mill, San Mateo.
 Lumber—Wisnom Lumber Co., San Mateo.
 Concrete—G. Adolphson, San Mateo.
 Glass—Cobbedick-Kibbe Glass Co., 666 Howard St., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$19,000
 OAKLAND, Alameda Co., Cal. Claremont Pines.
 Two-story frame and stucco residence (9 rooms; Spanish type).
 Owner—B. A. Sifford, Security Ins. Co. of New Haven, 114 Sansome St., San Francisco.
 Architect—Harold Stoner, 220 Third Ave., San Mateo.
 Contractor—J. M. Olson, 974 Park St., Alameda.

SCHOOLS

KING CITY, Monterey Co., Calif.—The Minton Co., Mt. View, at \$21,670 awarded contract by H. O. Williams, clerk, King City Union High School District, to erect reinforced concrete Fine Arts Unit to King City Union High School.

Following is a complete list of bids:

General Work
 The Minton Co., Mt. View.....\$21,670
 C. E. Burk, Oakland.....21,875
 G. G. Wood, Fresno.....25,951
 E. Nommensen, San Jose.....26,792

Heating and Ventilating
 San Jose Heating & Ventilating Co., San Jose.....\$6,286
 Pacific Heating & Ventilating Co., Oakland.....6,325
 L. W. Hooper.....7,618
 Knittle Bros., San Francisco.....7,693

Heating and ventilating bids held under advisement.

Plans Being Figured—Bids Close July 17, 2 P. M.

SCHOOL Cost, \$35,000
 LUCERNE, Lake Co., Cal.
 Reinforced concrete grammar school.
 Owner—Lucerne School District.
 Architect—N. R. Coulter, 46 Kearny St., San Francisco.

Bids will be advertised within one week.

Low Bidder.
AUDITORIUM Cost, approx. \$18,000
 GRASS VALLEY, Nevada Co., Cal.
 One-story frame auditorium.
 Owner—Sisters of Mercy, Grass Valley
 Architect—Harry Devine, California State Life Bldg., Sacramento.
 Low Bidder—Harry Robertson, 209 8th St., Sacramento.

SACRAMENTO, Cal. — Until July 14, 5 P. M., bids will be received by Chas. C. Hughes, Secretary, Board of Education, to furnish and deliver athletic supplies and equipment. Certified check 10% payable to Board of Education required with bid. Spec-

fications obtainable from Business Manager of Board at Administration Bldg., 21st and L Sts.

Preparing Preliminary Plans.
CONVENT Cost, \$—
 LOS ANGELES, Cal. Selma Ave.
 Two-story and basement frame convent (16 rooms, chapel, community room, laundry, etc.)
 Owner—Parochial School of the Blessed Sacrament Church.
 Architect—Emmett G. Martin, Chester Williams Bldg., Los Angeles.

Contracts Awarded.
SCHOOL Cost, \$45,000
 SAN JOSE, Santa Clara County, Cal. Monterey Road.
 One-story school, tile roof (auditorium to seat 400).
 Owner—Franklin School District.
 Architect—W. H. Weeks, Hunter-Dulin Building, San Francisco; 1736 Franklin St., Oakland, and Bank of Italy Bldg., San Jose.
 Contractor—Paul Anderson, 1210 Lincoln St., San Jose, \$35,382.
 Heating—William Serpa, 497 N 13th St., San Jose, \$3,875.

Plans Being Prepared.
CLASSROOMS, ETC. \$18,000 Available
 MODESTO, Stanislaus Co., Cal.
 Agricultural unit for high school (2 classrooms, laboratories and offices).
 Owner—Modesto City School District (J. H. Bradley, City Superintendent of Schools).
 Architect—Davis-Pearce Co., Builders Bldg., Stockton.

Plans Being Figured—Bids Close July 8 3 P. M.
SCIENCE BLDG. Cost, \$—
 DELANO, Kern Co., Cal.
 Erect Science Building.
 Owner—Delano Joint Union High School District, Frank Panero, Clerk, Delano.
 Architect—Chas. H. Biggar, Bank of Italy Bldg., Bakersfield.
 Plans obtainable from office of architect.

Contract Awarded.
ALTERATIONS Cost Approx. \$3000
 ROSS, Marin Co., Cal.
 Alterations to present grammar school
 Owner—Ross Grammar School Dist.
 Architect—A. A. Cantin, 544 Market St., San Francisco.
 Contractor—F. H. Field, 905 Portola Drive, San Francisco.

Wiring Contract Awarded.
GYMNASIUM Cost, \$225,000
 PALO ALTO, Santa Clara Co., Cal.
 Stanford University Campus
 Steel frame and reinforced concrete gymnasium building (300x250 ft.)
 Owner—Stanford University, Palo Alto
 Architect—John Bakewell and Arthur Brown Jr., 251 Kearny St., San Francisco.
 Contractor—George Wagner, Inc., 131 South Park, San Francisco.
 Wiring—Turner Co., 229 Tehama St., San Francisco.

As previously reported, plumbing awarded to James H. Pinkerton, 927 Howard St., S. F.; heating to O'Mara & Stewart, 218 Clara St., S. F.; structural steel to McClintic-Marshall, 2650 Bryant St., S. F.; reinforcing steel to Concrete Eng. Co., 1250 Indiana St., San Francisco.

FRESNO, Fresno Co., Calif.—Until July 10, 5 P. M., bids will be received by L. L. Smith, secretary, Board of Education, 2425 Fresno St., for moving ten or more bungalows from various schools to the Theodore Roosevelt High School grounds. Certified

check or bidder's surety bond 10% required with bid. Specifications obtainable from secretary.

Plans Completed.
ALTERATIONS Cost, \$2500
 FORT BRAGG, Mendocino Co., Cal.
 Alterations to school auditorium (enlarge stage, new dressing rooms, etc.)
 Owner—Fort Bragg Elementary School District.
 Architect—Norman R. Coulter, 46 Kearny St., San Francisco.
 Upon approval of plans bids will be called for.

Plans Being Figured—Bids Close July 7, 12 Noon.
SCHOOL Cost, \$70,000
 HOLLISTER, San Benito Co., Cal.
 Two-story brick and concrete school (12 rooms).
 Owner—Sacred Heart School (Rev. Daniel Keenan, Pastor), Hollister.
 Architect—R. G. Montgomery, Chamber of Commerce Bldg., Los Angeles.
 Bids are being received by Rev. Daniel Keenan, 606 West Street, Hollister.

RIVERSIDE, Cal.—Until 11 A. M., July 22, bids will be received by the Regents of the University of California for the construction of a reinforced concrete chemical building and insectary on the Riverside campus of the University of California. Bids will be taken as follows: (1) general construction of chemical building; (2) general construction of insectary; (3) heating; ventilating and plumbing for both buildings; (4) electrical work for both buildings; (5) laboratory furniture for chemical building. Drawings are separate on each job and a deposit of \$100 is required for each set of drawings obtained. Plans available at the office of the controller, 48 Library, University of California, 405 Hilgard Ave., Los Angeles. G. Stanley Wilson, architect, 3646 W. Ninth St., Riverside. Cost, \$150,000.

Preparing Working Drawings.
SCHOOL Cost, \$15,000
 WINTERS, Yolo Co., Cal.
 One-story frame and stucco school (2 classrooms)
 Owner—Winters School District.
 Architect—Dean & Dean, California State Life Bldg., Sacramento.
 Bids will be taken about July 15.

Plans Being Completed.
GYMNASIUM Cost, \$50,000
 BERKELEY, Alameda Co., Cal. Addison and Curtis Sts.
 Burbank Junior High School Gymnasium (structural steel, brick and hollow tile construction).
 Owner—Berkeley School District.
 Architect—Hardman & Russ, Berkeley Bank Bldg., Berkeley.
 Bids will be advertised in about two weeks.

Plans Being Figured—Bids Close July 15, 8 P. M.
ADDITIONS Cost, \$—
 DELANO, Kern Co., Cal.
 Building and equipping additional rooms at Cecil Ave. Grammar School and for repairs and alterations to West Side Schools.
 Owner—Delano Union Grammar School District, G. A. Swanson, Clerk, Delano.
 Architect—Chas. H. Biggar, Bank of Italy Bldg., Bakersfield.
 Plans obtainable from architect.

MODESTO. Stanislaus Co., Calif.—Board of Education will spend \$8,000 in the construction of four new handball courts at the Roosevelt School in addition to the construction of a stage on the east end of the indoor auditorium, also for heating facilities in the Lincoln and Washington schools and a new classroom at the Washington St. School. J. H. Bradley is city superintendent of schools.

Contract Awarded.
SCHOOL. Cost, \$50,000
ANAHEIM, Orange Co., Cal.
Two-story brick parochial school (60 x 135 feet).
Owner—Roman Catholic Bishop of Los Angeles.
Architect—M. A. Barket and G. Lawrence Ott, 346½ S. La Brea Ave., Los Angeles.

Plans Being Completed.
SCHOOL. Cost, \$16,000
CAMINO, El Dorado Co., Calif.
One-story English type stone and brick school (2 classrooms and auditorium).
Owner—Camino School Department.
Architect—Coffman, Sahlberg & Stafford, Forum Bldg., Sacramento, and 3529 Emerson St., Oakland.
Bids will be called for shortly.

Preliminary Plans Approved.
SCIENCE BLDG. Cost, \$120,000
SANTA BARBARA, Cal. State Teachers' College.
New science building.
Owner—State of California.
Architect—George B. McDougall, Public Works Bldg., Sacramento.

Plans Being Figured—Bids Close July 8, 7:30 P. M.
SCHOOL. Cost, \$80,000
(Bon's voted to finance)
SANTA CRUZ, Santa Cruz Co., Cal. (Gault School).
One-story concrete school.
Owner—Santa Cruz School District.
Architects—A. I. Coffey, Phelan Bldg., and M. J. Rist, 760 Market St., San Francisco.

Contract Awarded.
ADDITION. Cost, \$6784
DINUBA, Tulare Co., Cal.
One-story concrete, brick and frame assembly hall classroom addition
Owner—Grand View Elementary School District, Z. J. Kleinsasser, Clerk, Route 1, Box 381, Dinuba.
Architect—Ernest J. Kump Co., 533-35 Rowell Bldg., Fresno.
Contractor—Irwin & Hopkins, Fresno.
Complete list of bids follows:
Irwin & Hopkins, Fresno.....\$6784
Jolly & Harrington, Fresno.....7500
R. Hodgson & Son, Porterville.....7720
Walter Harris, Fresno.....7750
L. Clark, Visalia.....7946
Brown & Hougham, Hanford.....7919
Don Brown, Visalia.....8343
Lewis C. Nelson, Kingsburg.....8535

Plans Being Figured—Bids Close July 10, 2 P. M.
SCHOOL. Cost, \$35,000
FORTUNA, Humboldt Co., Cal.
One-story concrete school.
Owner—Fortuna Elementary School District.
Architect—Norman R. Coulter, 46 Kearny St., San Francisco.
Previous bids for this project were rejected as being too high. Certified check 10% payable to J. E. Hosier, clerk of district required with bid. Plans obtainable from the architect.

SALINAS. Monterey Co., Cal.—Until July 10, 7:30 P. M., bids will be received by T. P. Nielsen, clerk, Salinas Union High School District, for

stuccoing machine shop building now in course of construction at high school grounds. Specifications obtainable from clerk at high school.

Contracts Awarded.
ADDITION. Cost, \$150,000
SAN JOSE, Santa Clara Co., Calif.
Roosevelt High School.
One-story reinforced concrete high school addition.
Owner—San Jose School District.
Architect—W. H. Weeks, Hunter-Du-lin Building, San Francisco; 1736 Franklin St., Oakland, and Bank of Italy Bldg., San Jose.
General Work
E. Nommensen, 28 N 1st St., San Jose.....\$116,171

Plumbing
Hately & Hately, Sacramento.....\$19,546
Sheet Metal
Superior Metal Prod., 440 Market St., Oakland.....\$4,258
A. J. Peterson, 455 E Washington St., San Jose.....\$31,663

Painting
Patterson Bros., 494 36th Street, Oakland.....\$7,260

Plastering
Joe Provenzano, San Jose.....\$13,155
Electric Work
Webb & Fleming, 368 E Julian St., San Jose.....\$9,325

Roofing
Bush Roofing Co. St. Claire Bldg., San Jose.....\$6,596

Tile
Rigney Tile Co., 3012 Harrison St., Oakland.....\$2,320

Ornamental Iron
San Jose Iron Works, 535 W San Carlos St., San Jose.....\$1,875

Finish Hardware
Payne Hardware Co., 85 E Santa Clara St., San Jose.....\$2,389

Glass
Garden City Glass Co., 762 Lenzen St., San Jose.....\$1,842

Shades and Linoleum
L. Lion & Sons, 2nd and San Fernando St., San Jose.....\$2,551

Kitchen Equipment
Dohrmann Hotel Supply Co., 972 Mission St., San Francisco.....\$7,880

Special Fixtures
Brass & Kuhn, 1917 Bryant St., San Francisco.....\$12,950

Plans Being Prepared.
ADDITION. Cost, \$—
NORTH SACRAMENTO, Sacramento Co., Cal. Ben All School.
Three classroom addition to present school.

Owner—North Sacramento School District.
Architect—W. H. Weeks, Hunter-Du-lin Bldg., San Francisco; 1736 Franklin St., Oakland, and Bank of Italy Bldg., San Jose.

Plans Being Figured—Bids Close July 14th.
ALTERATIONS. Cost, \$10,000
NORTH SACRAMENTO, Sacramento Co., Cal.

Alterations and additions to present grammar school.
Owner—North Sacramento School Dist.
Architect—Chas. F. Dean, California State Life Bldg., Sacramento.

Plans Being Figured—Bids Close July 11, 7:30 P. M.
ADDITION. Cost, \$—
TULARE, Tulare Co., Cal.

One-classroom addition to Lincoln School.
Owner—Tulare Elementary School District.
Architect—Chas. E. Butner, Cory Bldg., Fresno.

Certified check 10% payable to Dr. R. N. Fisher, clerk of district, required with bid. Plans obtainable from architect on deposit of \$10, returnable.

Bids Opened.

SCHOOL. Cost, \$45,000
SAN JOSE, Santa Clara County, Cal. Monterey Road.
One-story school; tile roof (auditorium to seat 400).

Owner—Franklin School District.
Architect—W. H. Weeks, Hunter-Du-lin Building, San Francisco; 1736 Franklin St., Oakland, and Bank of Italy Bldg., San Jose.

Following is a complete list of bids:
General Work

Paul Anderson, 1210 Lincoln St., San Jose, \$35,862; (1) \$38,670; (2) \$38,769.

J. J. Groden, Alameda, \$36,800; (1) \$39,450; (2) \$39,300.

J. C. Thorp, \$37,470; (1) \$41,809; (2) \$42,789.

Thorsensen Bros., Hayward, \$37,500; (1) \$39,375; (2) \$42,235.

Frank Neves, \$37,587; (1) \$41,187; (2) \$39,887.

C. N. Svensen, San Jose, \$37,950; (1) \$41,270; (2) \$41,272.

The Minton Co., Palo Alto, \$38,307; (1) \$42,276; (2) \$44,890.

H. H. Henning, San Jose, \$40,880; (1) \$43,220; (2) \$43,900.

Smith & Sides, San Jose, \$42,240; (1) \$41,150; (2) \$42,540.

E. T. Lesure, Berkeley, \$44,943; (1) \$47,425; (2) \$47,689.

Heating
William Serpa, 497 N 13th St., San Jose, \$3,875; (1) \$275.

H. J. Pascoe, San Jose, \$3,908; (1) \$160.

Wm. Ehler, San Jose, \$4,220; (1) \$200.

M. G. Morning, San Jose, \$3,922; (1) \$150.

San Jose Heating & Ventilating Co., San Jose, \$4,120; (1) \$215.

C. L. Snyder Co., San Jose, \$4,159; (1) \$133.

Scott Co., San Francisco, \$4,290; (1) \$179.

J. W. Turner & Son, San Jose, \$4,315; (1) \$150.

Bids held under advisement.

Plans Being Figured—Bids Close July 16, 10 A. M.
ADDITION. Cost, \$6000
HAYWARD, Alameda Co., Cal. John Muir School.

Auditorium addition to school.
Owner—Hayward School District.
Architect—E. P. Whitman, 192 Main St., Hayward.

Bids Rejected—Plans Being Revised.
SCHOOL. Cost, \$35,000
(In bonds voted to finance)
FORTUNA, Humboldt Co., Cal.

One-story concrete school.
Owner—Fortuna School District.
Architect—N. R. Coulter, 46 Kearny St., San Francisco.

Plans are being revised and new bids will be called for.

SAN FRANCISCO—Board of Education has adopted a tentative building program involving an expenditure of \$2,500,000 during the fiscal year beginning July 1, involving the construction of:

1st unit of new George Washington High School on the 16-acre tract bounded by 30th and 32nd Aves., Geary and Balboa Sts., \$1,500,000.

Construction of Bernal Junior High School, site as yet not selected, \$600,000.

Remodeling Girls' High School, \$145,000.

Additions to West Portal Elementary School, \$180,000.

Addition to Longfellow Elementary School, \$110,000.

Construction of Potrero Elementary School, on site owned by city on Arkansas St. near 19th St., \$150,000.

Plans Being Figured—Bids Close July 19, 7 P. M.

ADDITION Cost, \$70,000
PACIFIC GROVE, Monterey Co., Cal.
Seven-classroom and auditorium brick addition to high school.

Owner—Pacific Grove High School District.

Architect—W. H. Weeks, Hunter-Dulin Building, San Francisco; 1736 Franklin St., Oakland, and Bank of Italy Bldg., San Jose.

Plans Completed.

ACADEMY Cost, \$125,000
WESTWOOD HILLS, Los Angeles Co., Cal. Beverly Blvd.

Two-story & basement frame, stucco, brick and concrete military academy (112x136 feet).

Owner—Urban Military Academy, 637 N. Wilcox Ave., Hollywood.

Architect—Harrison B. Travers, Union Insurance Bldg., Los Angeles.
Contractor Selected (Withheld).

Contracts Awarded.

SCHOOL Cost, \$60,000
SAN JOSE, Santa Clara County, Cal. (Garden School).

One-story frame and stucco school (12 classrooms).

Owner—San Jose School District.
Architect—Warren Skillings, Garden City Bank Bldg., San Jose.

General Work
The Minton Co., Palo Alto and Mt. View\$38,983

Heating
A. J. Peterson, 455 E Washington St., San Jose\$5,900

Plans Complete.

ACADEMY Cost, \$101,000
LOS ANGELES, Cal. 151 Layton Dr. Group of brick and concrete military academy buildings.

Owner—Urban Military Academy, Melrose and Wilcox Ave., Hollywood.

Architect—Harrison B. Travers, Union Insurance Bldg., Los Angeles.

Preliminary Plans Being Prepared.

SCHOOL Est. cost, \$180,000
SAN FRANCISCO. Claremont Blvd. and Taraval St.

Two-story class B reinforced concrete school.

Owner—City and County of San Francisco.

Architect—Dodge Riedy, Pacific Bldg.

Plans Being Figured—Bids Close July 11, 7:30 P. M.

ADDITION Cost, \$—
TULARE, Tulare Co., Cal.
Addition to high school garage.

Owner—Tulare Union High School District.

Architect—Charles E. Butner, Cory Bldg., Fresno.

Certified check 10% payable to C. E. Harper, clerk of district, required with bid. Plans obtainable from architect on deposit of \$10, returnable.

Plans Being Figured—Bids Close July 12, 4 P. M.

ADDITION Cost, \$—
SAN JOSE, Santa Clara County, Cal. Downer Ave. and Cottle Road.

Two-classroom and toilet room addition to school.

Owner—Oak Grove School Dist., A. L. Anderson, clerk.

Architect—Charles S. McKenzie, 415 Twelfth Bldg., San Jose.

Certified check 5% payable to clerk of district required with bid. Plans obtainable from architect.

Plans Being Completed.

ADDITIONS Cost, \$100,000
BERKELEY, Alameda Co., Cal.

Classroom additions to Longfellow School (Class C construction, brick wood and steel joists in auditorium.)

Owner—Berkeley School District.
Architect—Jas. W. Plachek, Mercantile Bank Bldg., Berkeley.

Bids will be taken in one week or ten days.

BANKS, STORES & OFFICES

Plans Being Figured.

ADDITION Cost, \$5000
SAN FRANCISCO. NE 8th St. and Natoma St.

Steel frame mezzanine floor addition to present building.

Owner—Tay-Holbrook, Inc.
Architect—J. E. Krafft & Sons, Pheasant Bldg.

Sub-Bids To Be Taken July 7.

ADDITIONS Cost, \$12,000
SAN FRANCISCO. S Harrison St., E Fourth St.

Two-story concrete addition to building.

Owner—Milo Coffee Company.
Engineer and Builder—James Hjul, 128 Russ St.

Plans Being Prepared.

BUILDING Cost, \$250,000
LOS ANGELES, Cal. Location Not Selected.

Three-story Class A building (150,000 sq. ft.)

Owner—Western Costume Co., 5533 Sunset Blvd., Los Angeles.

Architect—Morgan, Walls & Clements Spring Arcade Bldg., Los Angeles

Contract Awarded.

STORE, ETC. Cost, \$12,500
BERKELEY, Alameda Co., Cal. 3051-53 Telegraph Ave.

One-story frame and stucco store, market and residence.

Owner—George A. Scott, 337 17th St., Oakland.

Plans by Builders.
Contractor—Cartwright & Huffman, 337 17th St., Oakland.

Sub-Bids Being Taken.

STUDIO Cost, \$35,000
SAN MATEO, San Mateo Co., Cal. B Street.

Two-story frame and stucco studio and residence (studio on first floor containing auditorium and stage, bungalow on second floor).

Owner—Callen Tjada, 172 Second St., San Mateo.

Architect—Enri Cavasso, 235 Third St., San Mateo.

Contractor—Selected (Withheld).

Preliminary Plans Being Prepared.

BUILDING Total Cost, \$2,800,000
SAN FRANCISCO. SW Ellis and Taylor Streets.

Twenty-story Class A building (Modern Gothic type).

Owner—San Francisco Fine Arts Building Co., Ltd.

Architect—Clausen & Amandes, Hearst Bldg., San Francisco.

Contractor—Louis J. Cohn, 1 De Haro St. and C. L. Wold Co., 185 Stevenson St., San Francisco.

Electrical Contract Awarded.

BANK, ETC. Cost, \$8500
SAN FRANCISCO. SW 20th Avenue and Taraval St.

One-story and basement frame and brick veneer branch bank and (2) stores (60x60-ft.)

Owner—Floyd H. Steele, 130 St. Elmo Street.

Architect—George De Colmesnil, Nevada Bank Bldg.

Electrical—G. H. Armstrong Co., 2890 Howard St.

As previously reported, plumbing awarded to W. E. Trousdale, 424 Turk Street.

A 6 ft. area has been leased by the American Trust Co.

Plans Being Completed.

ANNEX Cost, \$2,000,000
SAN FRANCISCO. Bush Street near Montgomery St. (50x137 ft.)

Eighteen-story Class A reinforced concrete annex to building.

Owner—Mills Estate, Inc. (Curtis D. O'Sullivan, president), Mills Bldg., San Francisco.

Bids will be taken in about thirty days.

Plans Being Figured—Bids Close July 7th.

STORES Cost, \$6000
SAN FRANCISCO. Divisadero and Hayes Streets.

One-story frame and stucco store building (2 stories).

Owner—Bank of Italy.

Architect—H. A. Minton, Bank of Italy Bldg., Eddy and Powell Sts., San Francisco.

Contract Awarded.

DINING PAVILION Cost, \$—
SAN FRANCISCO. Harding Park Golf Course.

One-story frame and stucco dining pavilion.

Owner—Park Commission.
Plans by Owner.

Contractor—John Bjorkman, 316 Naylor St.

Following is a complete list of bids:
John Bjorkman\$ 9,287
Frank J. Reilly10,388
J. A. Bryant11,550
C. C. & H. H. Haun11,623
Henry Pappenhausen12,390

Bids Opened

KITCHEN EQUIP. Cost, \$—
SAN FRANCISCO. Harding Park Golf Course.

Furnish and install kitchen equipment for dining pavilion.

Owner—Park Commission.
Plans by Owner.

Mangrum-Holbrook Co. 1235 Mission St.\$7,100

Dohrmann Hotel Supply Co.7,499

Bids held under advisement.

Contract Awarded.

MARKET Cost, \$30,000
OAKLAND, Alameda Co., Cal. Downing and Telegraph Ave.

One-story frame and stucco drive-in market

Owner—George Scott.

Plans by Cartwright & Hoffman, 2014 W 48th St., Los Angeles.

Contractor—L. R. McWethy, 337 17th St., Oakland.

Sub-bids are in and will be awarded shortly.

Preparing Working Drawings.

ALTERATIONS Cost, \$25,000
SAN FRANCISCO. 131 Post St.

Extensive alterations to present store.

Owner—Isadore Weinstein, 1041 Market Street.

Architect—Hyman & Appleton 68 Post Street.

Plans will be ready for bids in about thirty days.

Preliminary Estimates Being Taken.

ALTERATIONS Cost, \$150,000
SAN FRANCISCO. Hunter-Dulin Bldg., No. 111 Sutter St.

Remodel present building.

Owner—Hunter-Dulin Bldg. (A. Garrison, Mgr.), Premises.

Architect—Earl T. Heitschmidt, 807 Subway Terminal Bldg., San Angeles.

The work will include two new elevators, elevator enclosures, art metal work, marble and tile work, skylights, terra cotta work, composition roofing, metal sash, etc.

In two weeks definite information will be given as to whether general bids will be called.

Sub-Bids Being Taken.

STORIES Cost, \$35,000
OAKLAND, Alameda Co., Cal. East Franklin St., bet. 17th and 19th Streets.

Two-story Class C concrete and tile store and offices.
 Owner—Gorrell Estate.
 Architect—Williams & Westell, 374 17th St., Oakland.
 Contractor—J. R. McWethy, 337 17th St., Oakland.
 Construction has been started.

Plans Being Prepared.

STORE Cost, \$75,000
SAN FRANCISCO, S Stevenson St. 125 W Sixth St.
 Six-story reinforced concrete store (75x125 ft.).
 Owner—Isadore Weinstein, 1401 Market St., San Francisco.
 Architect—Hyman & Appleton, 63 Post St., San Francisco.

Construction To Start Shortly.

OFFICES Cost, \$65,000
SANTA BARBARA, Santa Barbara Co., Cal. State and Figueroa Sts.
 Two-story and basement structural steel and concrete offices (44x94 feet).
 Owner—Santa Barbara Mutual Bldg. & Loan Association.
 Architect—Edwards & Plunkett, 20 E. Figueroa St., Santa Barbara.

To Be Done By Day's Work By Owner
ALTERATIONS Cost, \$12,000
SAN MATEO, San Mateo Co., Cal. No. 30 Bellevue Avenue.
 Alterations to building.
 Owner and Builder—S. A. Wisnom, 140 S. Ellsworth St., San Mateo.
 Architect—None.

Contract Awarded.
STORE & OFFICES Cost, \$240,393
LOS ANGELES, Cal. 610-20 S Hill St.
 Twelve-story and basement class A steel frame and reinforced concrete store and offices (52x124-ft.).
 Owner—Wm. Fox.
 Architect—S. Tilden Norton and F. H. Wallis, Financial Center Bldg., Los Angeles.
 Contractor—Herbert M. Baruch Corp., Lincoln Bldg., Los Angeles.

Preparing Working Drawings.
BUILDING Cost, \$—
EUREKA, Humboldt Co., Cal. Fifth St., bet. F and G Sts.
 Two-story brick building.
 Owner—W. P. Fuller & Co., 301 Mission St., San Francisco.
 Architect—Franklin T. Georgeson, 6th and G Sts., Eureka.
 Building will replace one recently destroyed by fire. Loss estimated at \$70,000.

THEATRES

Sub-Bids Being Taken.
REMODELING Cost, \$20,000
VALLEJO, Vallejo Co., Cal.
 Remodel theatre building.
 Owner—Fox-West Coast Service Corp., Washington St. and Vermont Ave. Los Angeles.
 Architect—Bath and Stanbery, Film Exchange Bldg., Los Angeles.
 Contractor—A. J. Hopper, 1763 Pleasant Valley Ave., Piedmont.
Lumber—Vallejo Lumber Co., Vallejo.
 Work will include remodeling the fronts, interior alterations, painting and decorating. Sub-bids are being taken on plastering, roofing, plumbing, marble and tile work.

SAN FRANCISCO—Rodney and Lloyd Pantages, 6233 Hollywood Blvd., Los Angeles, deny the report that they are planning to remodel the

old Hippodrome Theatre located on O'Farrell St. near Powell. They do plan to expand at some future date, but nothing has been definitely decided at this time.

Contract Awarded.

THEATRE Cost, \$215,000
SAN PEDRO, Los Angeles Co., Calif. 453-478 W Sixth St.
 Two-story class A theatre (125x150-ft.)
 Owner—Varnier Bros. Downtown Theatre Corp.
 Architect—B. Marcus Priteca, 411 W 7th St., Los Angeles.
 Contractor—Lange & Bergstrom, Inc., Washington Blvd., Los Angeles.

Plans Being Completed.

THEATRE Cost, \$200,000
WOODLAND, Yolo Co., Cal.
 Class A theatre (to seat 1200).
 Owner—National Theatres Syndicate, 25 Taylor St., San Francisco.
 Architect—Bills & Fairweather, Balboa Bldg., San Francisco.
 L. R. Crook is President and General Manager of National Theatres Syndicate.
 Bids will be called for shortly.

Completing Plans.

THEATRE Cost, \$—
LOS ANGELES, Cal. No. 609-19 S Broadway.
 Two-story Class A reinforced concrete theatre with six-story tower (115x125 ft.)
 Owner—William Fox.
 Architect—S. Tilden Norton and S. Chas. Lee, Financial Center Bldg., Los Angeles.

WHARVES AND DOCKS

OAKLAND, Cal. — Until July 7, 4:30 P. M., bids will be received by G. B. Hegardt, Secretary, City Port Commission, 424 Oakland Bank Bldg., to furnish and install complete automatic sprinkler system, fire hose piping and domestic water piping in Transit Shed No. 1, Brooklyn Basin, foot of Ninth Ave. Certified check 10% required with bid. Plans obtainable from secretary on deposit of \$5, returnable. Bond in full amount of contract price required of the successful bidder.

HUNTINGTON BEACH, Cal.—Merritt-Chapman & Scott Corp., 720 Wilmington Ave., San Pedro, (S. P. 2880) was awarded contract by city council June 27, at \$110,991 for (1) constructing an extension to the present pier. The extension will be 500 feet in length by 25 ft. wide, of reinforced concrete construction with concrete piling. The repairs will be of concrete with necessary piling, and a Gunite coating 1½-in. thick over practically the entire existing portion of the pier.

Contract Awarded.

TRANSIT SHED Cost, price, \$104,715
OAKLAND, Alameda Co., Cal. Outer Harbor.
 400 ft. extension to terminal wharf.
 Owner—City of Oakland Port Commission, G. B. Hegardt, secretary 424 Oakland Bank Bldg., Oakland.
 Plans by Eng. Dept. of Owner.
 Contractor—Schuler & McDonald, 9th Ave. Pier, Oakland.

MISCELLANEOUS CONSTRUCTION

SAN FRANCISCO, Cal. — Until July 10, 5 P. M., bids will be received by H. G. Denton, city clerk, for
 (1) Construct comfort station in McKinley Park and
 (2) Construct comfort station in William Curtis Park.

Dean & Dean, California State Life Bldg., Sacramento, architects.
 Bond of 50% of the contract price required of the successful bidder.
 Plans on file in office of clerk.

Contract Awarded.

AMUSEMENT BLDG. Cost, \$6000
SAN JOSE, Santa Clara Co., Cal. Humboldt St. near Sixth St.
 Wood amusement building.
 Owner—San Jose Tennis Club
 Architect—Blinder & Curtis, 35 N. San Carlos St., San Jose.
 Contractor—B. H. Painter, Gordon Ave., San Jose.

AVON, Contra Costa Co., Cal.—Chicago Bridge & Iron Works, Rialto Bldg., San Francisco, awarded contract by Associated Oil Co. to furnish and install 1500-gal. oil storage tank.

Western Pipe & Steel Co., 444 Market St., San Francisco, awarded contract to furnish and install four 1000-gal. and six 500-gal. tanks.
 The tanks will be installed in Tract No. 3 at Avon. The total cost of construction is placed at \$50,000.

SAN FRANCISCO—McGee Sales Agency, 75 Fremont St. at \$550 awarded contract by Board of Fire Commissioners to raze side and front walls of Boilers 7 and 8 of Pumping Station No. 1 and the installation of plibrico jointless fire brick or equal.

Metal Partition Contract Awarded.
FIELD HOUSE Cont. price, \$64,126
SAN FRANCISCO, Portola Playground
 Pelton and Hamilton Sts.

One-story playground field house (steel frame, wood and plaster construction).
 Owner—City and County of San Francisco (Playground Commission).
 Architect—Gardner Dailey, Room 610, 425 Mason St.

Contractor—Jacks and Irvine, 74 New Montgomery St.
Metal Partitions—Price Building Specialty Co., 683 Howard St.
 As previously reported, structural steel awarded to Judson Pacific Co., 609 Mission St.

Other awards will be made shortly.

OAKLAND, Cal.—Until July 3, 12 noon, new bids will be received by Frank C. Merritt, city clerk, to furnish and deliver stone, stone chips and rock screenings for various Municipal Departments for fiscal year. Bids received for these materials on June 12 were rejected as being too high. Specifications on file in office of the city clerk.

Plans Being Completed.

LAVATORIES Cost, \$6000
SACRAMENTO, Sacramento Co., Cal. McKinley Park, Wm. Land Park, and City Plaza.

Three one-story frame lavatories
 Owner—City of Sacramento.
 Architect—Chas. F. Dean (formerly of Dean & Dean), California State Life Bldg., Sacramento.

Bids will be called for shortly.

SACRAMENTO, Cal.—Following bids received by State Dept. of Architecture for constructing cattle corral at the State Fair Grounds. Plans prepared by Geo. B. McDougall, State Architect, Public Works Building, Sacramento:
 Guth & Fox, 1516 27th St., Sacra-

mento	\$4,566
T. B. Hunt, Sacramento	4,988
G. W. Kopp, Sacramento	5,238
Wm. Murrell, Sacramento	5,294
M. R. Petersen, Sacramento	5,570
P. F. Bender, Sacramento	5,685
C. J. Hopkinson, Sacramento	5,588

Bids held under advisement.

DELANO, Kern Co., Cal.—Until July 8, S. P. M. bids will be received by Frank Pancer, clerk, Delano Joint Union High School District, to furnish and install lawn sprinkler system at high school. Specifications obtainable from George R. Scott at high school.

GROSVILLE, Butte Co., Cal.—County supervisors reject bids to furnish 30,000 tons of crushed rock and sand for use in connection with highway improvements. The material will be purchased in the open market as required by J. A. Bumgarner, county engineer.

BUSINESS OPPORTUNITIES

SAN FRANCISCO—Names and addresses of the individuals or firms concerned in these opportunities will be furnished on request to the Business Opportunity Department of Daily Pacific Builder, 545-547 Mission Street.

20250.—Tent Pegs, San Francisco. Partly is inquiring for the names of importers of tent pegs.

20253.—Representative, Bressoux lez Liege, Belgium. Manufacturers of mining equipment desire an agent in San Francisco.

20262.—Tile, Valencia, Spain. Manufacturer of Manises tiles wishes a local agent.

LOS ANGELES, Cal.—D. F. Fearling, 2001 Veteran Ave., Los Angeles, desires to contact firm wishing representation in Southern California of any staple line, builders' hardware or automotive specialties preferred.

AERIAL TRAMWAYS TO BE MARKETED HERE

The recent appointment of the American Steel & Wire Company as sole licensees of the Bilechert-Zuegg Systems for the marketing of aerial tramways for passenger transportation provides for the first time for the development of construction projects of this nature in America. General contractors therefore may be called upon to bid on this type of construction in a number of scenic resorts in the mountains of the West.

The American Steel & Wire Company as a subsidiary of the United States Steel Corporation is engaged in activity for developing this tramway system and has prepared literature for its promotion.

EIGHT FACTORS COVER QUALITY IN BUILDING

"Conditions in the building industry which have reduced an important business to a mere price-cutting orgy, too often preventing reliable contractors from any proper consideration, may be reduced to eight factors, all more or less interlacing," states the Master Builders' Association of Boston. "These factors, and their pernicious effect, are not occasional influences, but are badly affecting a very large majority of public work as let by Federal, State or municipal authorities, and are extending more and more into so-called private work.

"The results of improper building construction are a rapid depreciation, an abnormally large upkeep cost, and a lack of satisfaction on the part of the owners. The effect upon the community is felt in taxes necessary to provide these continuing costs which are larger than necessary, and in rentals, which must be higher for

the same reasons. A Federal commission, a part of the Department of Commerce Committee on Waste in Industry, recently reported strongly against the very widespread lack of proper quality in building construction.

"The eight factors to which most of the low quality in building is attributable follow, the first being the outstanding factor, while the others are contributing factors:

"1. The use of contractors who by reason of inexperience, inadequate finances or improper business methods are unreliable.

"2. Belief that architects can control the quality of result regardless of the contractor.

"3. Belief that contract documents can protect the owner and assure a proper result.

"4. Belief that the contract bond affords a protection to the owner.

"5. Dependence upon lien laws which tend to enable irresponsible contractors to obtain business credit.

"6. Tendency of dealers in material to extend business credits unduly in order to increase sales.

"7. Improper practices of both general and sub-contractors, including 'shopping bids' and withholding payments, by general contractors to sub-contractors.

"8. Improper materials and workmanship."

ARIZONA LUMBER INDUSTRY

At the 13th annual meeting of the Lumbermen's Club of Arizona, John A. Johnson of Phoenix, gave some interesting figures on the lumber industry in that state.

Johnson said that the yearly cut of Arizona mills averages about 160 million feet, with approximate value of \$500,000,000. The annual expenditures of the milling companies is about \$4,300,000. The state has about 12 billion feet of standing timber under government control, with five billion feet of it held by the Indian Bureau. On 46,000 acres the state of Arizona owns 230 million feet, giving a gross of about 13 billion feet. There are 26 mills in Arizona, with 95 per cent of the cut coming from four large mills at Williams, Flagstaff, Standard and McNary. These larger mills represent an investment of about \$100,000,000, and employ close to 3,000 men. They operate 170 miles of railroad, with 17 locomotives and about 300 logging cars. About \$400,000 a year is paid for timber purchases from the state and government and about \$100,000 in taxes. Approximately 60 per cent of the total output of Arizona mills is shipped out of the state.

The general session of the 53rd annual convention of the National Electric Light Association will close in San Francisco today. Thousands of delegates are present representing every phase of the electric industry. A total of around \$120,000,000 invested in public utilities throughout the country is represented here by noted engineers and technicians, prominent utility and manufacturing company executives and other nationally known figures.

Perhaps the easiest way to measure the importance of electric energy to industry is to try to visualize, were it possible, what chaos would confront us if the use of this great force was suddenly denied us. A hint of what the consequences would be can be had on those rare occasions when "the power's off" with everything motionless and the progress of all business slackened immeasurably. It is equally impossible to appraise the contribution to business and society that is constantly being made by those of the

electric profession. It has taken less than fifty years to produce what we have today and with that short period of time as a back sight it would require a colossal ego to forecast developments during the next half century. So it is to such groups as the National Electric Light Association the Daily Pacific Builder bids a sad adieu.

PRENTICE CONSTRUCTION COMPANY IN NEW QUARTERS

Prentice Construction Co., formerly located at 2063 Webster street, Oakland, has moved to larger quarters at 4055 San Pablo Ave., Oakland.

The Prentice Company entered the general contracting business last February and due to a steady trend of business was forced to secure larger office and storage quarters. The new location affords adequate warehouse facilities for materials and equipment and is served by a spur track.

George D. Prentice is general manager of the company which is now handling all types of general construction including steel frame, concrete and wood construction.

METALS UNDER REPEATED STRESS STUDIED

Bulletin No. 208 of the Engineering Experiment Station of the University of Illinois records the results of a study of the development of slip lines, strain lines, and cracks in metal subjected to repeated stress. The metals studied were Armco iron, 0.20 carbon steel, chrome-nickel steel, stainless iron, brass, monel metal, and duralumin. Fatigue tests were carried out using rotating-beam specimens. Each specimen had two turned down sections, each subjected to the same range of stress. When one side broke the other, although unbroken, evidently had been subjected to repeated stress sufficiently high to cause structural damage, to which the name "fatigue damage" was given. The unbroken part of the specimen presumably was fatigue damaged along part of its length, but for the portion not turned down was undamaged. By turning down part of the undamaged portion of the specimen to the size of the fatigue-damaged portion there was formed a tension (or torsion) specimen. Thus it was possible to study the behavior under various tests of the same metal with and without fatigue damage.

The bulletin contains a description of the materials, test specimens, and apparatus used, the test data, and a discussion of the results. It also includes numerous micrographs and macrographs which were taken during the progress of the tests. From these it was possible to study the formation of slip lines, strain lines, and fatigue cracks.

Copies of Bulletin No. 208 may be obtained without charge by addressing the Engineering Experiment Station, Urbana, Illinois.

Validity of the city ordinance restricting structures in the Marina District, San Francisco, to a height of forty feet was upheld again by the State District Court of Appeal June 30 in denying an appeal filed by the Moana Hotel Company seeking authority to build a ten-story hotel.

The ordinance was declared to be not unreasonable or arbitrary.

The matter has been before the Supreme Court once, and twice before the Appellate Court, the ordinance being upheld each time.

Engineering News Section

BRIDGES

PLACER CO., Cal.—Lord & Bishop, Sacramento, at \$57,816 awarded contract by State Highway Commission to construct undergrade crossing under the tracks of S. P. Ry. near Emigrant Gap, consisting of two concrete abutments with wing walls and grading and surfacing roadway between abutments with crusher run base and untreated crushed gravel or stone surfacing.

REDDING, Shasta Co., Cal.—J. E. Fitzsimmons, Lodi, at \$1,500 awarded contract by county supervisors to construct bridge over Cow Creek near the Eldridge place. Other bids were: R. B. McKenzie, Gerber, \$1750; Rolla Arbuckle, Anderson, \$1767; J. P. Brennan, Redding, \$2090; Wm. Stephens, Redding, \$2779.70.

SAN JOSE, Santa Clara Co., Calif.—Until July 7, 5 P. M., bids will be received by C. B. Goodwin, city manager, to construct reinforced concrete bridge over Guadalupe river at Auzaers Ave. Certified check 10% payable to city required with bid. Plans obtainable from City Engineer Wm. Popp on deposit of \$10, of which \$5 is returnable.

TEHAMA AND SHASTA COUNTIES, Cal.—C. W. Wood, Stockton, at \$135,058 awarded contract by State Highway Commission to construct undergrade crossing bet. one mile south of Cottonwood and Cottonwood, consisting of two reinforced concrete abutments and a ballasted subfloor and about 0.9 mile roadway to be graded and paved with cement concrete.

NEVADA CO., Calif.—Bodenhamer Const. Co., San Diego, at \$55,751 awarded contract by State Highway Commission to construct overhead crossing over tracks of S. P. R. R. near Yuba Pass consisting of one 112 ft. deck plate girder span, one 66 ft. deck plate girder span, one 54 ft. deck plate girder span, all on concrete piers, and 279 lin. ft. timber trestle approach on framed bents and rubble masonry abutments.

EL DORADO CO., Calif.—As previously reported, bids will be received July 16 by State Highway Commission to construct reinforced concrete girder bridge over South Fork of the American River at Riverton, composed of one 60-ft. span and two 54-ft. spans on concrete piers and bents and grade and surface approaches with untreated gravel or stone. Project involves: 6 sta. clear and grub; 2550 cu. yds. rdwy. excav. without class; 300 cu. yds. struc. excav.; 1900 sta. yds. overhaul; 550 cu. yds. class A and 12 cu. yds. class E cem. conc.; 80,000 lbs. reinf. steel; 2600 lbs. cast steel rockers and bearings, 450 cu. yds. untreated crushed gravel or stone surf.; 25 M gallons water for surfacing; 80 lin. ft. 18-in. corr. metal pipe; 300 cu. yds. light riprap; 1 existing bridge to be removed; 9 sta. finish rdwy.; 1330 lin. ft. move and reset property fences; 1 lot miscellaneous items of work. State will fur. corr. metal pipe.

SANTA ROSA, Sonoma Co., Cal.—W. L. Proctor, Santa Rosa, at \$5,998.50 awarded contract by county

supervisors to construct two reinforced concrete culverts on the Adobe to Eureka school road near Petaluma.

SANTA ROSA, Sonoma Co., Cal.—R. Press Smith, Santa Rosa, at \$1408 awarded contract by county supervisors to construct reinforced concrete culvert on Skaggs Spring road.

SANTA ROSA, Sonoma Co., Cal.—A. Soda at \$1031 awarded contract by county supervisors to construct reinforced concrete culvert in Washington Street in the First Supervisor District.

SAN MATEO COUNTY, Calif.—Bids will be asked shortly by State Highway Commission for improvements in connection with highway underpass at Colma. At present the underpass is 66 ft. wide. It will be widened to 108 ft. with two 6-ft. sidewalks. The cost, estimated in the neighborhood of \$100,000, will be borne equally by the Southern Pacific Railroad and the state.

FRESNO, Fresno Co., Cal.—M. Madsen, 247 Maple St., Fresno, at \$3189 submitted low bid to city council to construct bridge over Dry Creek in Glenn Ave. Will be 24-ft. span, 52 ft. wide; reinforced concrete. Taken under advisement until June 30.

LOS GATOS, Santa Clara Co., Cal.—Until July 21, 8 P. M., bids will be received by Donna M. Winning, town clerk, to construct culvert in New York Ave. Certified check 10% required with bid. Plans on file in office of clerk.

REDDING, Shasta Co., Cal.—Tentative budget has been prepared by the county supervisors providing \$43,779 for the construction and maintenance of bridges during coming fiscal year. Of the total amount, \$20,000 will cover maintenance.

LOS ANGELES, Cal.—General Engineering Corp., Ltd., 740 S. Broadway, Los Angeles, at \$204,820 submitted low bid to Board of Public Works to construct Washington St. Bridge over Los Angeles river, between Soto and Harriet Sts. Will be 310 ft. in length consisting of five reinf. conc. girder spans, each 62 ft. center to center; roadway 56 ft. wide with two 5 ft. walks. Involves approx. 536,224 lbs. reinf. steel; 6975 cu. yds. Class F concrete; 11,136 lin. ft. conc. piling, 15 ft. long.

SAN FRANCISCO—Streets Committee of Board of Supervisors has approved \$250,000 appropriation to finance city's cost in the construction of the Third street bridge over the Channel. The State Board of Harbor Commissioners has agreed to provide an additional \$150,000 in the project.

FRESNO, Fresno Co., Cal.—M. Madsen, 247 Maple St., Fresno, at \$3189 awarded contract by city council to construct bridge over Dry Creek in Glenn Ave. Will be 24 ft. span, 52 ft. wide; reinforced concrete.

DREDGING, HARBOR WORKS & EXCAVATIONS

SACRAMENTO, Cal.—Until July 8, 2 P. M., under Order No. 2132, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver 137 tons of steel sheet piling (cut to 10-ft. lengths). Material will be used for driving a wall approximately 1,300-ft. long and 10-ft. deep. Further information obtainable from above.

LOS ANGELES, Cal.—Standard Dredging Co., Central Bldg., awarded contract at \$71,640 by Los Angeles harbor department for dredging Fish Harbor and entrance channel, involving the removal of 300,000 cu. yds. of material. Spec. No. 855.

OAKLAND, Cal.—Until July 24, 3 P. M., bids will be received by U. S. Engineer Office, Customhouse, San Francisco, for dredging in Oakland Harbor. Specifications obtainable from above office.

STOCKTON, San Joaquin Co., Cal.—Until August 26, 3 P. M., bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, to construct certain levees or embankments by dragline excavators, along the San Joaquin River, at and below Stockton, in connection with the San Joaquin River and Stockton Channel project. This work under Circular Proposal No. 30-272, Specifications 1670. Deposit of \$3.50 required for plans obtainable from above office.

STOCKTON, San Joaquin Co., Cal.—Until August 26, 3 P. M., bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, under Circular Proposal No. 30-270, Specifications No. 1668, to construct certain levees or embankments by clamshell dredges along the San Joaquin River, below Stockton, in connection with the construction of the San Joaquin River and Stockton Channel project. Specifications obtainable from above office on deposit of \$3.50, returnable.

MACHINERY AND EQUIPMENT

EL CERRITO, Contra Costa Co., Cal.—Following bids taken under advisement by city trustees to furnish and deliver a 2-ton truck for the street department: J. E. French Co., \$2890; International Harvester Co., \$3491.75; La France-Republic Co., \$2532 and \$3328; Mack Motor Co., \$3670.50; Auto Car Co., \$3462; Moreland Motor Co., \$3059.50; General Motors Co., \$2776.70 and \$2627.50 and Fugel Motor Co., \$3222.

TULARE, Tulare Co., Calif.—Until July 11, 7:30 P. M., bids will be received by C. E. Harper, clerk, Tulare Union High School District, to furnish and deliver one automobile chassis and one school bus body. Certified check 10% payable to clerk required at high school. With bid. Spec. obtainable from clerk.

LINDEN, San Joaquin Co., Calif.—Until July 17, 8 P. M., bids will be received by Linden Union High School District, to furnish and deliver one 45-passenger school bus, using Ford Model AA truck chassis with Fabco No. 60 frame extension and P and C body or equal. Specifications and further information obtainable from clerk of district at Linden.

GUADALUPE, Santa Barbara Co., Cal.—Until July 10, 8:30 P. M., bids will be received by Floyd V. Pitts, clerk, Guadalupe Joint Union High School District, to furnish and deliver two 6-cylinder motor busses, two- to three-ton capacity with a seating capacity of 45 to 50 adult persons. Seats to be built lengthwise with double seats in center. Both busses to be fully equipped. Bidders to furnish specifications. Further information obtainable from clerk.

SAN FRANCISCO.—Until July 7, 2 P. M., bids will be received by U. S. Forest Service, Ferry Bldg., to furnish and deliver two light auto delivery and three 1½-ton trucks. Further information obtainable from above.

SAN BRUNO, San Mateo Co., Cal.—M. Belli & Co., Sausalito, San Francisco, at \$2132 awarded contract by city trustees to furnish and deliver one G. M. G. 1½-ton Model T-25 truck; payment of \$400 on delivery, balance in 4 equal installments over a period of 15 months.

OAKDALE, Stanislaus Co., Cal.—Until July 11, 8 P. M., bids will be received by E. M. Kimball, Clerk, Oakdale Union High School District, to furnish and deliver ferry truck, chassis suitable for mounting passenger body of 58-passengers. Separate bids will be considered for body. Specifications and further information obtainable from J. O. Gossett, principal at high school.

SAN FRANCISCO.—Utilities Committee of Board of Supervisors contemplates election to vote bonds of \$380,000 to finance purchase of 20 new cars for Municipal Railway to be used in connection with H street line to serve the Coast League baseball games to be opened in the new grounds at 16th and Potrero Ave. next April.

CLOVIS, Fresno Co., Cal.—Until July 14, 7 P. M., bids will be received by Ben McKay, clerk, Clovis Union High School District, to furnish and deliver one school bus complete; 35- to 45-passenger capacity; with dual tires on rear wheels; 6-cylinder motor. Certified check 10% required with bid. Specifications and further information obtainable from clerk.

BAKERSFIELD, Kern Co., Cal.—Until July 14, 7:30 P. M., bids will be received by William Gleason, Clerk, Kern County Union High School District, to furnish and deliver one student bus chassis and one student bus body. Specifications and further information obtainable from clerk.

RAILROADS

RICHMOND, Contra Costa Co., Cal.—Higgins and Marshall, Richmond, awarded contract by United Commercial Co., San Francisco, for grading in connection with spur tracks to serve the Ford plant on the Richmond Inner Harbor.

LONG BEACH, Cal.—Until 2:30 P. M., July 5, bids will be received by the city council for furnishing and delivering to the city f. o. b. Municipal Pier No. 1, Inner Harbor, Long Beach, track material and special work in accordance with specifications No. H. D. 42. Specifications may be obtained upon deposit of \$10. Certified check or bond, 10%. G. L. Buck, city manager.

OAKLAND, Cal.—U. S. Steel Products Co., Russ Bldg., San Francisco, at \$3100 awarded contract by City Port Commission to furnish and deliver track materials in connection with Ninth Ave. pier.

MISCELLANEOUS SUPPLIES AND MATERIALS

OAKLAND, Cal.—Following contracts awarded by city council to furnish materials and services for fiscal year 1930-31: Baird Brush Mfg. Co., street brushes, \$24 per dozen; Standard Oil Co., engine distillate, 10 and one-tenth cents per gallon including tax; E. K. Wood Lumber Co., Douglas fir at \$1 per thousand feet; Eureka Mill & Lumber Co., redwood at \$1.75 per thousand feet; Pacific Coast Aggregates, Inc., mixed concrete, \$5.75 to \$6.34 per cubic yard; Oakland Building Material Co., dry concrete mix, \$1.40; Standard Oil Co., Kerosene, \$1.35 per gallon; California Corrugated Culvert Co., corrugated iron pipe and culvert materials; James O. Bell, street refuse containers, \$5.97 each; American Rubber Manufacturing Co., fire hose, 75 cents per foot; Smith, Emery & Co., furnishing storage and making compression tests on concrete cylinders, \$1.90 per test.

RESERVOIRS AND DAMS

BOULDER DAM.—The bill providing \$10,600,000 for immediate construction work in the Boulder Canyon dam has passed the Senate and now awaits

the signature of the president. It is probable that the state of Arizona will file suit directed against such construction as soon as the bill has been signed.

PIPE LINES, WELLS, ETC.

SAUSALITO, Marin Co., Cal.—Constructing Quartermaster, Fort Mason, San Francisco, is preparing plans for installation of approximately 7000 ft. of gas mains between Sausalito and Fort Baker.

SEWERS AND SEWAGE DISPOSAL PLANTS

SAN FRANCISCO.—Bureau of Engineering, Department of Public Works, 3rd Floor, City Hall, is completing plans for Section D of the Alameda Storm Drain in Industrial street from Toland St. to Oakdale Ave. and Section C in Industrial St. from Bay Shore Blvd. to Toland St.

GRASS VALLEY, Nevada Co., Cal.—Until July 1, 7:30 P. M., bids will be received by Bertha C. Fuller, City Clerk, to furnish materials to construct approximately 2000 ft. of sewer, involving:

- 1—Furnishing about 1550 feet of "Standard Vitrified Salt Glazed Sewer Pipe," 6 in. diameter, and 150 ft. of iron pipe, 6 in. diameter.
- 2—All the material and appurtenances for 8 manholes.
- 3—One flush tank.

Separate bids are wanted for digging trenches and laying above sewer. Certified check 10% payable to city required with bid. Specifications and further information obtainable from city clerk.

RICHMOND, Contra Costa Co., Cal.—Until July 7, 8 P. M., bids will be received by A. C. Faris, city clerk, (479) to construct combined storm and sanitary sewers in Dock Ave., bet. 10th St. and east termination of Dock Ave., etc., involving salt glazed vitrified clay pipe; centrifugally cast reinforced concrete pipe; cast iron pipe; salt glazed vitrified clay sewer pipe in timber cradle on piles and in concrete pipe jackets on piles; centrifugally cast reinforced concrete pipe in reinforced concrete cradle on piles; manholes; overflow structures; storm water inlets, etc. Estimated cost \$117,000. 1911 Act. Certified check 10% payable to city required with bid. Plans obtainable from City Engineer E. A. Hoffman.

OAKLAND, Cal.—Until July 3, 12 noon, bids will be received by Frank C. Merritt, city clerk, to furnish sewer pipe to city for remainder of fiscal year ending June 30, 1931. Bond of \$1000 required of successful bidder. Specifications on file in office of clerk.

SAN LEANDRO, Alameda Co., Cal.—City council has started proceedings for a new sewer link to serve the entire south section of the city; estimated cost \$50,000; 24-in. pipe will probably be specified.

PHOENIX, Ariz.—The \$317,000 sewer bond issue carried at the recent election. Bids for the purchase of the bonds will be received about Aug. 5.

LOS ANGELES, Cal.—Martin Simunovich, 3305 W 66th St., awarded contract by the board of public works at \$171,800 on Type No. 2 to construct Section No. 34-B of the North Luffall Sewer from Riverside Dr. and Woodman Ave., to Kester Ave. and Bur-

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bank Blvd., involving the following approximate quantities: 1303.39 ft. 57-in. 6703.17 ft. 51-in., 76.29 ft. 45-in., 2591.12 ft. 39-in. and 2540.9 ft. 36-in. semi-elliptical concrete sewer, complete with resurf.; 20 ft. 24-in. vit. sewer.

LOS ANGELES, Cal.—Dalmatin and Nikevich, 841 W 62nd St., Los Angeles, were awarded contract by the board of public works at \$203,631 on Type No. 2 to construct Section No. 34-A of the North Outfall Sewer, from Laurel Canyon Blvd. and Woodbridge Lane to Riverside Drive and Woodman Ave., involving: 5533.19 ft. 57-in. semi-elliptical conc. sewer, inc. tunnels, curves, etc., Inc. resurf.; 5330.54 ft. 51-in. semi-elliptical conc. sewer, etc., Inc. resurf.; 2427.05 ft. 39-in. semi-elliptical conc. sewer, inc. tunnels and inc. all resurf.; 20 ft. 24-in. vit. pipe sewer, Inc. resurf.; 7 ft. 18-in. do.

WATER WORKS

WHITTIER, Los Angeles Co., Cal.—Until 7:30 P. M., July 7, bids will be received by the city council for a deep well pump equipped for belt drive, pulley diameter 18-in. with 20-in. face, discharge above floor, maximum diameter of bowls 15-in., designed to lift 300 inches of water 40 feet and 11 ft. P. M., or 60 feet at 970 revolutions per minute, complete with 60 feet of water column and 10 feet of suction pipe, f. o. b. Whittier. For further particulars, bidders will communicate with M. R. Bowen, Water Superintendent, 205 North Greenleaf Ave., Whittier. Certified check or bond, 10%. Debbie E. Allen, city clerk.

LOS ANGELES, Cal.—Until 10 A. M., July 9, bids will be received by the Los Angeles harbor department for pumping equipment, motors, etc., for Fish Harbor salt water supply line. Spec. No. 861. The work includes furnishing and installing three 5000 G. P. M. centrifugal pumps, one 250-gallon centrifugal pump, motors, vacuum pumps and incidental work. Information obtained from the harbor engineer, San Pedro. Burt Edwards, general manager.

MODESTO, Stanislaus Co., Calif.—Until July 9, 7:30 P. M., bids will be received by H. E. Gragg, city clerk, to construct pump station. Certified check 10% payable to Mayor required with bid. Plans obtainable from Frank Rossi, city engineer.

SAN FRANCISCO—Until July 14, 3 P. M., under Proposal No. 610, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish and deliver 200 fire hydrants complete and 400 extra hydrant bodies for Fire Department. Specifications and further information obtainable from above.

See call for bids under official proposal section in this issue.

PLAYGROUNDS & PARKS

CLOVERDALE, Stanislaus Co., Cal.—Bids will be asked shortly by city trustees for improvements in connection with water distributing system and for which \$15,000 is available.

STREETS AND HIGHWAYS

PALO ALTO, Santa Clara Co., Cal.—Ferlolo and Bettini, Palo Alto, at \$8,858.16 awarded contract by city council to construct sidewalks in Mayfield district. Other bids: A. Soda & Son, San Francisco, \$9,929.87; N. M. Ball, Porterville, \$10,860.

RIVERSIDE COUNTY, Calif.—Until July 22, 2 P. M., bids will be received by C. H. Sweetser, district engineer, U. S. Bureau of Public Roads, 461 Market St., for oil processing 15.5 miles of Idyllwild National Forest Highway, Route 72, in San Bernardino National Forest, involving:

15.5 miles prepare roadway; 365,000 gals. asphalt. oil (furnish and apply);

15.5 miles road mixing & compacting oil treated surface;

193 right of way monuments. Plans obtainable from above office on deposit of \$10, checks for same to be made payable to Federal Reserve Bank of San Francisco.

BAKERSFIELD, Kern Co., Cal.—council starts proceedings to pave thirteen blocks of streets; from 11th and H Sts., to 14th, between 14th to J St.; north on J St. to cemetery; beginning at 16th and G Sts., thence west to J St., in addition to other streets in the east section of the city.

BAKERSFIELD, Kern Co., Calif.—A sum of \$146,000 has been divided by the Board of Supervisors among the four road districts of the county, \$10,000 coming from the general road fund of the state and \$136,000 from the motor vehicle fund. Of the \$10,000 general road fund the division was made as follows: The first district receives \$5000, and districts Nos. 2 and 4 each receive \$2500. The division of the motor vehicle fund was made as follows: The first district receives \$68,000; district No. 2, \$34,000; No. 3, \$6500 and No. 4, \$27,500. The money will be used in improving and maintaining county roads.

SAN FRANCISCO—Bureau of Engineering, Department of Public Works, 3rd Floor, City Hall, is completing plans to grade and pave Section B of the Sunset Blvd., between 30th and 37th Ave., from Santiago St. to Sloat Blvd., and Section D between Noriega and Irving Sts.

OROVILLE, Butte Co., Cal.—County supervisors reject bids to furnish 30,000 tons of crushed rock and sand for use in connection with highway improvements. The material will be purchased in the open market as required by J. A. Bumgarner, county engineer.

SAN JOAQUIN CO., Calif.—As previously reported, bids will be received July 16 by State Highway Commission to grade and pave with asphalt concrete 1.4 miles bet. Forest Lake and north boundary. Project involves: 15,500 cu. yds. rdwy. excav. without classification; 160,500 sta. yds. overhaul; 415 cu. yds. struc. excav.; 7440 sq. yds. subgrade for pave; 130 cu. yds. class A cem. conc. (struc.); 11,600 lbs. bar

reinfr. steel (struc.); 6430 tons asphalt conc.; 170 tons untreated crushed gravel or stone surf. in place (road approaches); 8100 sq. yds. asphalt binder; 10 M gals. water applied to surf.; 500 bbls. fuel oil (shoulders and road approaches); 14 lin. ft. 12-in. 215 lb. pipe; 18-in. and 60 lin. ft. 36-in. corrugated metal pipe; 59 lin. ft. corr. metal pipe (clean and relay); 0.7 M ft. b.m. redwood timber, dense select all-heart struc. grade; move and reset 5 conc. headwalls; 360 cu. yds. remove and dispose of cement conc. in existing pave, and struc.; 0.4 mi. new hog-tight property fence; 74 sta. finish rdwy.; 5 monuments. State will fur. corr. metal pipe and cast steel frames and covers for drop inlets.

LYON COUNTY, Nevada—Until July 9, 2 P. M., bids will be received by State Highway Commission, Carson City, to furnish asphaltic fuel oil, apply and mix with crushed rock or crushed rock gravel surface on 11.72 miles between Yerington and Wilson's. Certified check 5% required with bid. Plans on file in office of U. S. Bureau of Public Roads, 461 Market St., San Francisco, and obtainable from S. C. Durkee, State Highway Engineer, Carson City, on deposit of \$15 of which \$10 is returnable.

EUREKA COUNTY, Nevada—Until July 9, 2 P. M., bids will be received by State Highway Commission, Carson City, to grade, construct structures and oil surface, 11.65 miles between Hay Ranch and Eureka. Certified check 5% required with bid. Plans on file in office of U. S. Bureau of Public Roads, 461 Market St., San Francisco, and obtainable from S. C. Durkee, State Highway Engineer, Carson City, on deposit of \$15 of which \$10 is returnable.

GUSTINE, Merced Co., Cal.—City Engineer A. E. Cowell is preparing plans to improve unpaved streets in the residential section with gravel surface, oiled treated. Approximately \$50,000 will be expended in the work.

SAN CARLOS, San Mateo Co., Cal.—Town trustees declare intention (30-4) to improve portions of Arroyo Ave., Chestnut St., Elm St., etc., involving grading; cem. conc. curbs, walks, gutters; 4-in. waterbound rock macadam pave. with 3-in. asphalt. conc. surface; salt glazed ironstone pipe sanitary sewers with wyes; cem. conc. storm water sewers. 1911 Act Bond Act 1915. Hearing July 2. Julius M. Edling, city clerk.

OAKDALE, Stanislaus Co., Calif.—City trustees declare intention (7) to improve portions of 4th Ave., 3rd Ave., 2nd Ave., etc., involving grading; pave with 2-in. oil treated crushed gravel or stone. 1911 Act Bond Act 1915. Hearing July 7. C. E. Wood, city clerk.

CONTRACTORS' MACHINE WORKS

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San Francisco

SAN LUIS OBISPO COUNTY, Cal.—Until July 23, 2 P. M., bids will be received by State Highway Commission to grade and pave with cement concrete 3.0 miles between San Luis Obispo and foot of the Cuesta Grade.

See call for bids under official proposal section in this issue.

SAN RAFAEL, Marin Co., Cal.—City council declares intention (513) to improve portions of Jewell St., Acacia Ave., Palm Ave., etc., involving grading; ironstone pipe main sewers and side sewers; hyd. concrete manholes; corr. iron pipe culverts; hyd. conc. and corr. iron arch culverts; hyd. conc. and corr. iron arch culverts; hyd. conc. catchbasins; pave with stone sub-base with hyd. concrete surface; hyd. conc. curbs and gutters. 1911 Act. Bond Act 1915. Hearing July 14. H. K. Brainerd, city manager. Eugene W. Smith, city clerk.

SAN FRANCISCO—Until July 2, 2:30 P. M., bids will be received by S. J. Hester, Secretary, Board of Public Works, to improve Harrison St., bet. Second and Essex Sts., involving grade; armored conc. curbs; 2-course conc. sidewalks; 12-in. vit. clay pipe sewers with wyes; side sewers; brick manholes; vit. pipe culverts; concrete and asph. concrete pavements. Certified check 10% payable to Clerk of the Bd. of Sups. required with bid. Plans obtainable from Bureau of Engineering, 3rd Floor, City Hall.

SANTA ROSA, Sonoma Co., Cal.—Until July 15, 3 P. M., bids will be received by Ney L. Donovan, city clerk, (1613) to improve Ridgway Ave. bet. Mendocino Ave. and Cleveland Ave., involving grading; 4-in. macadam base with 3-in. asph. conc. surf.; hydraulic concrete curbs and gutters. 1911 Act. Bond Act 1915. Certified check 10% payable to city required with bid. Plans on file in office of clerk.

SANTA ROSA, Sonoma Co., Cal.—Until July 15, 3 P. M., bids will be received by Ney L. Donovan, city clerk, (1612) to improve Vason Street bet. King and Wright Sts., involving grading; 4-in. macadam base; 3-inch asphaltic concrete surface pavement; hyd. cem. conc. curbs, walks and gutters. 1911 Act. Bond Act 1915.

Certified check 10% payable to city required with bid. Plans on file in office of clerk.

WASHOE COUNTY, Nevada.—Isbell Const. Co., Fresno, Calif., and Carson City, Nev., at \$44,888.56 submitted low bid to U. S. Bureau of Public Roads, San Francisco, for grading Section B, Route 1, Lake Tahoe National Forest Highway, in Tahoe National Forest, Washoe County, Nev., 2.36 miles, involving: 18 acres clearing; 57,000 cu. yds. excav. unclass.; 400 cu. yds. struc. excav.; 18,500 sta. yds. over-haul; 2.56 mi. finish earth graded rd.; 122 cu. yds. conc. in place; 9500 lbs. reinf. steel; 942 lin. ft. corr. metal pipe in place; extra work, maintenance of existing road and sections accepted for trace est. \$1000; 50 right-of-way monuments in place. Other bids were: T. E. Connolly, S. F., \$54,642.32; Fennell Co., Inc., Sacramento, \$65,464.21; engineer's est., \$52,572.35.

DOUGLAS COUNTY, Nevada.—Isbell Const. Co., Carson City, at \$53,221.71 submitted low bid to U. S. Bureau of Public Roads, San Francisco, to grade 2.58 miles of Section C, Route 3, Glenbrook National Forest Highway, Tahoe National Forest, in Douglas County, Nev., involving: 62,361 cu. yds. unclass. excav.; 230 cu. yds. struc. excav.; 12,338 sta. yds. over-haul; 2.58

miles finish earth graded rd.; 35 cu. yds. class B and 30 cu. yds. class C cem.; 3500 lbs. reinf. steel; 1150 lin. ft. corr. metal pipe (in place); maintenance of existing road and sections accepted for traffic, est. cost \$1000; haul and pile logs; 64 right-of-way monuments. Other bids: T. E. Connolly, San Francisco, \$62,139; Fennell Co., Inc., Sacramento, \$70,043.39; engineer's estimate, \$49,969.16.

KERN COUNTY, Calif.—As previously reported, bids will be received July 15 by State Highway Commission to surface with untreated crushed gravel or stone, 13.9 miles bet. 1½-mi. east of Cottonwood Creek and Democrat Springs. Project involves: 21,000 cu. yds. rdwy. excav. without class; 4000 cu. yds. gutter excav.; 20,000 sta. yds. over-haul; 25,000 cu. yds. imported borrow; 500 cu. yds. struc. excav.; 35,000 tons oil treated crushed gravel or stone surf.; 1000 tons screenings (seal coat); 600 bls. fuel oil (seal coat); 880 lin. ft. 18-in. corr. metal pipe; 250 cu. yds. rubble masonry walls; move and reset 1500 guard rocks; 734 sta. finish rdwy. State will fur. corr. metal pipe.

MODOC COUNTY, Calif.—As previously reported, bids will be received July 16 by State Highway Commission to grade and surface with untreated crushed gravel or stone, 1.4 miles bet. 3 miles and 4.4 miles east of Alturas. Project involves: 41,500 cu. yds. rdwy. excav. without class; 340,000 sta. yds. over-haul; 150 cu. yds. struc. excav.; 2350 cu. yds. untreated crushed gravel or stone surf.; 140 M. eals. water applied to surf.; 8 cu. yds. class A cem. conc. (struc.); 310 lbs. bar reinf. steel (struc.); 220 lin. ft. 18-in. and 72 lin. ft. 24-in. corr. metal pipe; 75 sta. finish rdwy.; 28 monuments. State will fur. corr. metal pipe.

SANTA CRUZ CO., Cal.—O. A. Lindberg, Stockton, at \$127,229 awarded contract by State Highway Commission to grade and surface about 2.6 miles bet. Waterman Switch-back and Saratoga Gap with bituminous treated waterbound macadam.

SAN JOAQUIN CO., Calif.—Larsen Bros., Galt, at \$42,388 awarded contract by State Highway Commission to grade and widen about 3.3 miles bet. Houston School and Forest Lake with cement concrete and crusher run base.

SAN JOAQUIN CO., Calif.—Larsen Bros., Galt, at \$38,726 awarded contract by State Highway Commission to grade and surface about 1.8 miles bet. French Camp and Stockton with crushed gravel or stone.

SISKIYOU CO., Calif.—Basalt Rock Co., Napa, at \$5,547.20 awarded contract by State Highway Commission to furnish and apply heavy fuel oil on 21 miles along Klamath river lateral between Shasta river and Walker.

SAN FRANCISCO—Until July 2, 2:30 P. M., bids will be received by S. J. Hester, Secretary, Board of Public Works, to improve crossing of Head and Sargent Sts., involving armored concrete curbs; concrete walks; brick catchbasins; vit. clay pipe sewers; 6-in. Class F conc. base pave with 2-in. asph. conc. surface. Est. cost \$2400. Certified check 10% payable to Clerk, Board of Sups. required with bid. Plans obtainable from Bureau of Engineering, 3rd Floor, City Hall.

SAN FRANCISCO—Until July 2, 2:30 P. M., bids will be received by S. J. Hester, Secretary, Board of Public Works, to improve Tara St.,

bet. Mt. Vernon Ave. and Ridge Lane, including intersection, involving grade; armored conc. curbs; 8-in. vit. clay pipe sewers with manholes; wyes; pave with 6-in. Class E concrete. Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd Floor, City Hall.

OAKLAND, Cal.—Until July 3, 12 noon, new bids will be received by Frank C. Merritt, city clerk, to furnish and deliver stone, stone chips and rock screenings for various Municipal Departments for fiscal year. Bids received for these materials on June 12 were rejected as being too high. Specifications on file in office of the city clerk.

DEL NORTE CO., Cal.—Engelhart Paving & Const. Co., Eureka, at \$11,417.50 awarded contract by State Highway Commission to grade 0.5 mile of realignment on Redwood Highway in vicinity of Richardson Creek.

SANTA ROSA, Sonoma Co., Cal.—George French Jr., Stockton, at \$3265 awarded contract by county supervisors for 10½ miles of surfacing from Healdsburg to Napa Highway through Knights Valley.

KING CITY, Monterey Co., Cal.—City council declares intention (No. 6) to improve portions of First St., involving grading; hyd. conc. curbs; 5-in. hyd. cem. conc. pavement. 1911 Act. Bond Act 1915. Hearing July 16. J. A. Wasson, city clerk.

PACIFIC GROVE, Monterey Co., Cal.—Until July 17, 7:30 P. M., bids will be received by W. G. Stubbs, city clerk (3207) to improve Laurel Ave. between Lighthouse and Laurel Aves., involving grading; cement concrete curbs and gutters, 2-in. asph. conc. pave; two conc. catchbasins; 4-in. vit. clay lateral sewer. Bond Act 1915. Imp. Act 1911. Certified check 10% payable to city required with bid. Plans on file in office of clerk.

MARYSVILLE, Yuba Co., Cal.—City council declares intention (37) to improve portions of 12th St., E St., B Street, involving removal of concrete curbs and sprinkler system, remove trees, grading; pave with 2½-in. asph. conc. base with 1½-in. Warrentite-Eit surface; conc. curbs; gutters. 1911 Act. Bond Act 1915. Hearing July 14. Chester O. Gates, city clerk.

KING CITY, Monterey Co., Calif.—City council declares intention (5) to improve portions of Mildred Ave., 7th and Bissett Sts., etc., involving grading; 5-in. hyd. conc. pave; hyd. cem. conc. curbs; catchbasins; gutters. 1911 Act. Bond Act 1915. Hearing July 16. J. A. Wasson, city clerk.

SACRAMENTO, Cal.—W. H. Larsen, Galt, at \$39,942 awarded contract by county to improve Mills Orchard Highway from Maxwell-Sites road to the unincorporated town of Sites, a distance of 4.04 miles involving 6300 tons asphaltic concrete paving.

LOS ANGELES, Cal.—Griffith Co., L. A. Railway Bldg., Los Angeles, at \$571,592 submitted low bid to Board of Public Works to improve 8th St., bet. Figueroa St. and Windsor Blvd., involving in the main grading, \$72,900; conc. and asph. conc. pavement; storm drain and appurtenances, \$47,500; san. sewers, \$45,000; reconstruct lighting system, \$10,000; construct new lighting system, \$95,000, etc.

MARIN COUNTY, Cal.—Until July 23, 2 P. M., bids will be received by State Highway Commission to grade and surface with bituminous macadam, 1.3 miles between Belvedere Crossing and Tiburon.

See call for bids under official proposal section in this issue.

OFFICIAL PROPOSALS

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received at the office of the State Highway Engineer, Public Works Building, Sacramento, California, until 2 o'clock P. M., on July 23, 1930, at which time they will be publicly opened and read, for construction in accordance with the specifications therefor, to which special reference is made, of portions of State Highways, as follows:

Marin County, between Belvedere Crossing and Tiburon (V-Mr-52-A), about one and three-tenths (1.3) miles in length, to be graded and surfaced with bituminous macadam.

San Luis Obispo County, between San Luis Obispo and the foot of Cuesta grade (V-SLO-2-D), about three (3.0) miles in length, to be graded and paved with Portland cement concrete.

Proposal forms will be issued to only those Contractors who have furnished verified statement of experience and financial condition in accordance with the provisions of Chapter 644, Statutes 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Bids will not be accepted from a Contractor to whom a proposal form has not been issued by the Department of Public Works.

Plans may be seen, and forms of proposal, bonds, contract and specifications may be obtained at the said office, and they may be seen at the offices of the District Engineers at Los Angeles and San Francisco, and at the office of the District Engineer of the district in which the work is situated. The District Engineers' offices are located at Eureka, Redding, Sacramento, San Francisco, San Luis Obispo, Fresno, Los Angeles, San Bernardino and Bishop.

A representative from the district office will be available to accompany prospective bidders for an inspection of the work herein contemplated, and Contractors are urged to investigate the location, character and quantity of work to be done, with a representative of the Division of Highways. It is requested that arrangements for joint field inspection be made as far in advance as possible. Detailed information concerning the proposed work may be obtained from the district office.

No bid will be received unless it is made on a blank form furnished by the State Highway Engineer. The special attention of prospective bidders is called to the "Proposal Requirements and Conditions" annexed to the blank form of proposal, for full directions as to bidding, etc.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed

for the best interests of the State.
DEPARTMENT OF PUBLIC WORKS,
DIVISION OF HIGHWAYS
C. H. PURCELL,
State Highway Engineer.
Dated June 25, 1930.

NOTICE TO CONTRACTORS

SEALED BIDS will be received by Geo. B. McDougall, State Architect, Public Works Building, 11th and P Sts. Sacramento, California, up until 2 o'clock P. M., Tuesday, July 22, 1930, thereafter on said day to be publicly opened and read for the construction of a reinforced concrete dam for the Preston School of Industry, near Ione, California.

The dam will measure 192'-0" at the crest and approximately 25'-0" at the highest point and involves approximately 600 cubic yards of reinforced concrete.

Plans and specifications are on file for examination in the office of the Division of Architecture, Public Works Building, Sacramento, and also at Room 1025 Associated Realty Building, Los Angeles, and at the principal California Cities Builders' Exchange Offices.

Plans, specifications, and proposal forms may be secured by licensed Contractors who have qualified or who will qualify by furnishing a verified statement of experience and financial condition as required by the provisions of Chapter 644, Statutes 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Questionnaire forms may be secured from the Division of Architecture.

Bids will not be accepted from a Contractor to whom a proposal form has not been issued and all bids must be on proposal forms supplied by the State.

Requests for plans shall be accompanied by a deposit of twenty-five (\$25.00) dollars. Check shall be made payable to the Department of Public Works, Division of Architecture. Deposit will be returned upon receipt of the set in good condition, at Sacramento Office of the Division within 30

days after opening bids, otherwise it will be forfeited to the State.

All bids must be filed at the office of the State Architect on or before the time heretofore stated and in accordance with the "Rules for Bidding" accompanying the proposal form.

No bid will be considered unless cash, a bidder's bond made payable to the State of California, or a certified check made payable to the "State Engineer, Department of Public Works," in the sum of at least ten per centum (10%) of the amount of the bid is enclosed with the bid.

The Division of Architecture, State Department of Public Works, reserves the right to reject any or all bids and to waive any informality in any bid received.

STATE DEPARTMENT OF PUBLIC WORKS

DIVISION OF ARCHITECTURE

Geo. B. McDougall,

State Architect.

B. B. MEEK,

Director of Public Works.

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received at the office of the State Highway Engineer, Public Works Building, Sacramento, California, until 2 o'clock P. M. on July 16, 1930, at which time they will be publicly opened and read, for construction in accordance with the specifications therefor, to which special reference is made, of portions of State Highway, as follows:

Modoc County, between 3 miles and 4.1 miles east of Alturas (H-Mod-23-C), about one and four-tenths (1.4) miles in length, to be graded and surfaced with untreated crushed gravel or stone.

El Dorado County, a reinforced concrete girder bridge across South Fork of American River at Riverfront (H-E.D.-11-F); composed of one 60-foot span and two 54-foot spans on con-

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DAILY PACIFIC BUILDER

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Keep informed on construction developments in Central and Northern California, and the major projects in Southern California, the states of Oregon, Washington, Nevada and Arizona.

crete piers and bents, and grading and surfacing approaches with untreated crushed gravel or stone.

Kern County, between $1\frac{1}{2}$ miles east of Cottonwood Creek and Democrat Springs VI-Ker-57-F & G, about thirteen and nine-tenths (13.9) miles in length, to be surfaced with oil treated crushed gravel or stone.

San Joaquin County, between Forest Lake and the northerly boundary (X-S.J.-4-D), about one and four-tenths (1.4) miles in length, to be graded and paved with asphalt concrete.

Proposal forms will be issued to only those Contractors who have furnished verified statement of experience and financial condition in accordance with the provisions of Chapter 644, Statutes 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Bids will not be accepted from a Contractor to whom a proposal form has not been issued by the Department of Public Works.

Plans may be seen, and forms of proposal, bonds, contract and specifications may be obtained at the said office, and they may be seen at the offices of the District Engineers at Los Angeles and San Francisco, and at the office of the District Engineer of the district in which the work is situated. The District Engineers' offices are located at Eureka, Redding, Sacramento, San Francisco, San Luis Obispo, Los Angeles, San Bernardino and Bishop.

A representative from the district office will be available to accompany prospective bidders for an inspection of the work herein contemplated, and Contractors are urged to investigate the location, character and quantity of work to be done, with a representative of the Division of Highways. It is requested that arrangements for joint field inspection be made as far in advance as possible. Detailed information concerning the proposed work may be obtained from the district office.

No bid will be received unless it is made on a blank form furnished by the State Highway Engineer. The special attention of prospective bidders is called to the "Proposal Requirements and Conditions" annexed to the blank form of proposal, for full directions as to bidding, etc.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

C. H. PURCELL,

State Highway Engineer.
Dated June 18, 1930.

STATE SUPERVISORS CONVENTION

Supervisors from all sections of the state together with business leaders and state officials, guests of A. B. C. Dohrmann, Past President, Director of the California State Chamber of Commerce at dinner, Yosemite Valley, Thursday evening discussed all phases of California's economic problems, and gave mutual pledges and co-operation to bring about their early solution.

Following Dohrmann's remarks in which he asked for united action to insure California's immediate future, there was a ready response from all groups.

Among the speakers were: Supervisors Jefferson E. Peyser, San Francisco County; Stanley Abel, Chairman of Board, Kern County; Sidney Groves, Chairman of Board, Los Angeles County; Tom Hurley, San Diego County; W. A. Collins, Chairman of Board, Fresno County; B. B. Meek, Director, State Department of Public Works; N. H. Sloane, General Manager, California State Chamber of Commerce; Milton Esberg and R. H. Shainwall.

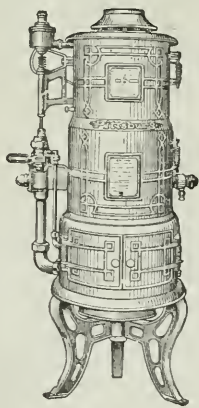
Supervisor Peyser in his remarks said:

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Consider the high merit of the Pittsburg coupled with "Pittsburg Perfect Service."

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"The machine-consolidation-merger age has brought to use new problems to solve. This era of super business carries with it responsibility which we as citizens must face without disregarding the fundamental laws of economics. We have witnessed the business complex of entire California communities change in the last few years by the newer methods of doing business.

"The radio, the automobile, and the airplane, have all aided in erasing the imaginary provincial boundaries referred to as city or county lines, and we are fast becoming tolerant of each others' problems as we learn that they differ only in degree from our own."

Topics discussed were Conservation, Aviation, Agriculture, Street and Highway Safety, Road Development, and Industry.

L. A. ARCHITECTS AWARDED FIRST PRIZE IN COMPETITION

The prize-winning designs in the Lehigh Airport Competition will be exhibited in the Architects' Building Material Exhibit at Fifth and Figueroa Sts., Los Angeles. This was the first national competition for designs of modern airports and the local exhibit is being sponsored by the Southern California Chapter of the National Aeronautic Association.

A. C. Zimmerman and William H. Harrison, Los Angeles architects, were awarded first prize in the competition, and their design was particularly commended by the jury because of its logical use of all elements for the comfort and convenience of passengers and aviators. In this design the visitors and passengers reach the airport through a broad plaza at the junction of two important boulevards, where provision has also been made for underground approach of a subway or railway. The approach plaza is developed as a signified park and is provided with parking space for automobiles. The passenger terminal has a waiting room similar to that of a railway station with ticket and information booths, baggage rooms, restaurant and lunch counter, news stand and similar facilities. Provision was also made for mail, express and freight handling with offices for immigration, customs and public health officials controlling all the incoming passengers from foreign ports.

This competition contributed two significant things to America's newest transportation industry. First, it crystallized the attention of the professional world, including architects, engineers and city planners, on the many problems of airport design. Second, it resulted in the presentation of many valuable suggestions, in pictorial and plan form, which will help to create public appreciation of what an airport should be.

Of the 257 designs submitted in the competition, 16 were awarded prizes, and of these the first prize and three of the honorable mentions were won in California.

A nine-ton block of onyx, said to be the largest produced from the quarries at Santa Catarina, Lower California, in the 30 years of operation there, was brought to San Diego recently aboard the power schooner Pinole.

The block of onyx, when taken from the quarry, weighed 22 tons and is believed to be the largest block of its kind ever mined. Another block of onyx, weighing 13 tons, also had to be cut up before it could be loaded aboard the Pinole. The nine-ton block is to be manufactured into bath tubs.

Contracts Awarded

Liens, Acceptances, Etc.

BUILDING PERMITS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Am't
822	Pacific	Wilhelm	3500
823	Padulo	Owner	3000
824	Vallejo	Denke	5000
825	Herzig	Owner	12000
826	Cohn	Hardy	1000
827	Scutto	Owner	1000
828	Guargaglia	Simmons	20000
829	Franchini	Owner	1000
830	Matzen	Sharman	4000
831	Blum	Owner	4000
832	Franchini	Owner	1000
833	Olson	Owner	3500
834	Garibaldi	Carraro	4000
835	Janssen	Owner	4000
836	Coglan	Jones	1300
837	Stoneson	Owner	12000
838	Crescio	Owner	3500
839	Lindsay	Owner	3500
840	Stoneson	Owner	18000
841	Milne	Owner	3500
842	Struthers	Owner	3000
843	Struthers	Owner	4200
844	Swanson	Owner	4000
845	Archer	Hamill	3000
846	Costello	Owner	8000
847	Livingston	Ostlund	6000
848	S. P. Co	Rosemont	2000
849	Tay	Kraft	6000
850	Morris	Owner	1100
851	St. Mary's Park	Johnson	5000
852	Western Pacific	Sjoberg	1300

ALTERATIONS

(825) SE 19th ST. and Treat Avenue; alterations to offices.
Owner—Pacific Foundry Co., 19th St. and Treat Ave.
Architect—None.
Contractor—A. W. Wilhelm, 666 Mission St. \$3500

DWELLING

(823) N ARLETA 50 E Delta; one-story and basement frame dwelling.
Owner and Builder—Frank Padulo, 525 Goettingen.
Architect—B. K. Dobkowitz, 425 Montecery Blvd. \$3000

ADDITION

(824) 1955 VALLEJO ST.; one-story and basement addition to garage.
Owner—1955 Vallejo, Inc., 2050 Bryant Street.
Architect—E. H. Denke, 1317 Hyde St. \$5000

DWELLINGS

(825) SE DARIEN WAY and San Alejo; two 2-story and basement frame dwellings.
Owner and Builder—A. J. Herzig, 635 Victoria.
Plans by D. E. Jaekle, 744 Call Bldg. \$12,000

ALTERATIONS

(826) 242 29th AVE.; alterations to residence.
Owner—A. Cohn, 242 29th Ave.
Architect—None.
Contractor—A. M. Hardy, 212 Ritch St. \$1000

ALTERATIONS

(827) 58 BOYCE; alterations to dwelling.
Owner—Jack Scutto, 58 Boyce St.
Architect—None. \$4000

APARTMENTS

(828) N GREENWICH 135 W Steiner; 2-story and basement frame apartments.

Owner—G. B. Guaraglia, 2250 Chestnut St.
Plans by J. MacFarland, 2250 Chestnut Street.
Contractor—Henry Simmons, 2250 Chestnut St. \$20,000

SERVICE STATION

(829) S 24th ST. 50 W Vicksburg St.; one-story service station.
Owner—Frank Franchini, 1031 Post St.
Architect—None. \$1000

DWELLING

(830) N GREENWICH 105 E Baker; one-story and basement frame dwelling.
Owner—O. Matzen, 1514 Irving St.
Architect—None.
Contractor—T. R. Sharman, 1514 Irving St. \$4000

DWELLING

(831) E HOLYOKE 100 S Burrows; 1-story and basement frame dwelling.
Owner and Builder—Joe Blum, 212 Stillman.
Architect—None. \$4000

SHOP

(832) S 24th ST. 50 W Vicksburg; 1-story accessories shop.
Owner—Frank Franchini, 1031 Post St.
Architect—None. \$1000

DWELLING

(833) SW NEWMAN & ANDOVER; one-story and basement frame dwelling.
Owner and Builder—Joe Olson, 519 California St.
Architect—None. \$3500

DWELLING

(834) SW WAYLAND and Holyoke; one-story and basement frame dwelling.
Owner—V. Garibaldi.
Architect—None.
Contractor—G. Carraro, 720 Felton St. \$4000

DWELLING

(835) W 10th AVE. 150 S Geary St.; one-story and basement frame dwelling.
Owner—E. A. Janssen, 811 Hearst Bldg.
Architect—None. \$4000

REPAIRS

(836) 929 MARKET ST.; repair fire damage.
Owner—Coglan Estate Co., 929 Market St.
Architect—None.
Contractor—Thos. M. Jones, 643 29th Avenue. \$1300

DWELLINGS

(837) N HAZELWOOD 138 E Cayuga; three 1-story and basement frame dwellings.
Owner and Builder—Stoneson Bros. & Thorsinson, 279 Yerba Buena Ave.
Architect—Charles F. Strothoff, 2274 15th St. \$12,000

DWELLING

(838) SE BACON & GOETTENGEN; one-story and basement frame dwelling.
Owner and Builder—Mario Crescio, 8 Wheat St.
Architect—None. \$3500

DWELLING

(839) E OXFORD 100 S Pioche; one-story and basement frame dwelling.
Owner and Builder—Claude T. Lindsay, 4363 26th St.
Architect—None. \$3500

DWELLINGS

(840) N HAZELWOOD 250 E Cayuga; four one-story and basement frame dwellings.
Owner and Builder—Stoneson Bros. & Thorsinson, 279 Yerba Buena Ave.
Architect—Charles F. Strothoff, 2274 15th St. \$18,000

DWELLING

(841) W CAINE 150 S Lake View Ave. one-story and basement frame dwelling.
Owner and Builder—L. R. Milne, 19 Willis.
Architect—None. \$3500

DWELLING

(842) E CAROLINA 175 S 20th St.; one-story and basement frame dwelling.
Owner—Marshall T. Struthers.
Architect—None. \$3000

DWELLING

(843) S HILL 235 E Noe; two-story and basement frame dwelling.
Owner—Marshall T. Struthers.
Architect—None. \$4200

DWELLING

(844) E 23rd AVE. 150 S Vicente; 1-story and basement frame dwelling.
Owner—Oscar Swanson, 3539 Market Street.
Architect—None. \$4000

ALTERATIONS

(845) 3032 MARKET ST.; alterations to dwelling.
Owner—Mrs. Archer, 1075 Portola Dr.
Architect—None.
Contractor—Thomas Hamill, Inc., 6140 Geary St. \$3000

DWELLINGS

(846) F 22nd AVE. 150 S Quintera; two 1-story and basement frame dwellings.
Owner and Builder—Lawrence Costello, 382 27th Ave.
Architect—None. \$8000

ALTERATIONS

(847) NE GRANT AVE. and Geary; alterations.
Owner—Livingston Bros., Grant Ave. and Geary St.
Architect—None.
Contractor—Ostlund & Johnson, 1901 Bryant St. \$6000

Capital City Title Company

J. C. PALEN
Manager

914 Seventh Street
Sacramento - California

ADDITIONS

(848) SE SECOND & TOWNSEND.
Addition and alterations to crating shed.
Owner—Southern Pacific Co., Third and Townsend Sts., S. F.
Architect—None.
Contractor—Ed. Rosemont, 176 Duboce Ave., San Francisco. \$2000

ALTERATIONS

(849) NE EIGHTH AND NATOMA.
Install steel frame mezzanine floor.
Owner—Tay-Holbrook, Inc. % J. E. Kraft & Sons, Phelan Bldg., San Francisco.
Engineer—J. E. Kraft & Sons, Phelan Bldg., San Francisco. \$6000

ALTERATIONS

(850) NO. 2612 WEBSTER. Alter dwelling.
Owner—Mrs. V. Morris, 1345 Steiner St., San Francisco.
Architect—None. \$1100

DWELLING

(851) S CRESCENT 171 W Agnon.
One-story and basement frame dwelling.
Owner—St. Mary's Park, 3901 Mission St., San Francisco.
Designer—D. E. Jaekle, 744 Call Bldg., San Francisco.
Contractor—A. R. Johnson, 3901 Mission St., San Francisco. \$5000

ALTERATIONS

(852) SE FIFTEENTH AND VERMONT. Alterations to warehouse.
Owner—Western Pacific R. R. Co., Mills Bldg., San Francisco.
Architect—None.
Contractor—N. H. Sjoborg & Son, 632 Call Bldg., San Francisco. \$1300

BUILDING CONTRACTS

San Francisco County

No.	Owner	Contractor	Amt.
134	McIntosh	Gibbs	10258
135	P G & E Co	Larsen	54433
136	P G & E	MacGruber	7623
137	Same	Steel	61275

PLUMBING & HEATING

(134) S JACKSON ST. 150 W Baker;
plumbing and heating for building.
Owner—Wm. McIntosh, 633 Mission St.
Architect—None.
Contractor—J. Gibbs Sons, 1706 Geary Street.
Filed June 28, '30. Dated Nov. 14, '29.
Plumbing rough in.....\$3450
Baths installed.....1000
Heating rough in.....1266
Completed.....2000
30 days after completion.....2572
TOTAL COST, \$10,283

OFFICE

(135) BOUNDED by 18th, 19th, Folsom and Shotwell Sts.; completion and rehabilitation of division distribution office.
Owner—P. G. & E. Co., 445 Sutter St.
Architect—None.
Contractor—H. H. Larsen Co., 64 So. Park St.
Filed June 28, '30. Dated June 23, '30.
1st of each month.....75%
Usual 35 days.....25%
TOTAL COST, \$54,433
Bond, \$54,000. Sureties, American Bonding Co. Limit, 90 days. Plans and Spec. filed.
LATHING, ETC.
(136) 23rd & LOUISIANA; lathing, furring and plastering for new switch house at Station A.
Owner—Pacific Gas & Electric Co., 445 Sutter St.
Architect—None.

Contractor—MacGruber & Co., 266 Tehama St.
Filed July 1, '30. Dated June 18, '30.
On completion.....75%
Usual 35 days.....25%
TOTAL COST, \$7623
Bond, \$7623. Sureties, Pacific Indemnity Co. Limit, 60 days. Plans and Spec. filed.

(137) FABRICATION, delivery and erection of steel chimney, etc., for above station.
Contractor—Steel Tank & Pipe Co., 1100 4th St., Berkeley.
Filed July 1, '30. Dated June 25, '30.
On completion.....75%
Usual 35 days.....25%
TOTAL COST, \$61,275
Bond, \$61,275. Sureties, Pacific Indemnity Co. Limit, 70 days. Plans and Spec. filed.

COMPLETION NOTICES

San Francisco County

Recorded	Accepted
June 26, 1930—EXCEPTING SE SAN Jose Ave 25.86 SW Farragut Ave SW 25.86 th defctg 101° 12' 50" SE 26.60 th defctg 78° 47' 10" NE 25.86 th defctg 101° 13' 00" Sec NW 20.60 Blk 5, West End Map No. 2. Rosario and Antonio Melodia to Antonio Melodia Jr.....June 21, 1930	
June 27, 1930—SE RUSSIA AVE & Lisbon St Nos 501-3-5 Lisbon St. F J and B Davis to whom it may concern.....June 21, 1930	
June 27, 1930—W 21st Ave 210 N Ortega St N 50 x W 120. R Neill to whom it may concern.....June 24, 1930	
June 27, 1930—NE CASELLI AVE and Danvers, Einer C Lyngaard to Lindgren Bros.....June 27, 1930	
June 27, 1930—4651-57 MISSION ST. J J Lagorio to whom it may concern.....June 26, 1930	
June 27, 1930—E 22nd AVE & S Quintara S 75 x E 120. Lawrence and Anna Costello to whom it may concern.....June 26, 1930	
June 26, 1930—SE MISSION ST 385 N Virginia Ave NE 25 x SE 133-6. American Trust Co to Mission Concrete Co.....June 25, 1930	
June 26, 1930—SE CALIFORNIA & Joyce S 77-6 E 60 N 4 E 30 N 63-9 W 80. Marian Realty Co, Ltd to L Devincenzi & Co.....June 21, 1930	
June 26, 1930—SE SAN JOSE AVE 25-56 SW Farragut Ave SW 25-86 SE 100 NE 25-86 NW 100 ptn blk 5 West End Map 2 excepting ptn said lot; SE San Jose Ave 332-42 NE Lawrence Ave NE 25-86 x SE 100 m or l ptn blk 5 West End Map No 2, except ptn said lot. Rosario and Antonio Melodia to Antonio Melodia, Jr.....June 21, 1930	
June 25, 1930—SW ATHENS AND Persia Ave 25x100. Walter R Koch to whom it may concern.....June 20, 1930	
June 25, 1930—S PARK 379 W Andover W 25xS 100. Sarah Lambert, Gdn. Est. June F Adams, Donald D and Holly F Adams, minors to Pedar Anderson.....June 30, 1930	
June 30, 1930—NW FOURTH AND Welch Sts. N 80 x W 80. M Levy to T J Cohn.....June 30, 1930	
June 30, 1930—SE RAYMOND AVE and Delta 25 on Raymond Ave x 65 on Delta. K C Gardner to whom it may concern.....June 23, 1930	
June 30, 1930—W 45th Ave 100 S Vicente S 25 x W 120. C A Pratt to O M Cook.....June 30, 1930	
June 30, 1930—W 21st Ave 125 S Rivera S 25 x W 120 OL 101. John and Sofia E Carlson to whom it may concern.....June 27, 1930	
June 30, 1930—LOT 11 BLK 525 Haley Purchase. Margaret and	

Thomas Fenech to Thomas F Lof-tus.....June 16, 1930
June 30 1930—S POST 215 W Jones W 60 x S 137-6. E B DeGolla to Cahill Bros, Inc.....June 30, 1930
Correction in Location.
June 28, 1930—S GRATTAN 136-6 E Stanyan E 25 S 101 m or l SW 30-8 1/2 m or l N 191 m or l M T Struthers to G Conway.....June 28, 1930

LIENS FILED

San Francisco County

Recorded	Amount
June 27, 1930—LOTS 30-31-32 BLK 143 map Brown Est Co Sub ptn University Hd. Agnes Dean, admrx estate Albert Edw Dean decd vs Laverne A and Estella Booker.....\$40	
June 27, 1930—NE POLK and Turk N 85 x E 85. Aetna Electric Co vs Haley Bros, V E, V C and V I Haley.....\$1523	
Correction in Amount. June 26, 1930—N PINE 73 W Baker W 33-3 N 50 E 36 S 25 W 2-9 S 25 WA 581. The Light Shop vs Anne C McDonald.....\$86.50	
June 26, 1930—NE POLK & TURK N 85 x E 85 WA 7. E D Philbrick Co vs Haley Bros, V E, V C and V I Haley.....\$450	
June 30, 1930—SE PAG & ASH-BURY E 90 x S 25. C Chiappa vs C G Willington, Fritz and Anna Steffen; Assg. Int. June 30, 1930 C Chiappa to W S Dickey Clay Mfg Co.....\$504	
June 30, 1930—LOT 21 BLK 2987A Assessor's Map belp ptn St Francis Wood Exten No 2, known as 1347 Portola Drive. Fred G Parker as Parker Weatherstrip Co vs W A and Emily A Regentz.....\$73.50	
June 23, 1930—266 LENOX AVE, Oakland Willis C Lowe, \$6900; A M Poulsen, \$3024.13, vs Emily and Albert Kroll.....June 23, 1930—\$309 GOLF LINKS Road, Oakland Edward T Conlon vs W W Brown.....\$177	

RELEASE OF LIENS

San Francisco County

Recorded	Amount
June 26, 1930—SE RIVERA and 32nd Ave E 145 S 100 W 25 S 50 W 120 N 150. California Const Co to Mrs R Barton Silver.....	

BUILDING PERMITS

Alameda County

112	Scott	Cartwright	10000
809	Grazzane	Melrose	2300
810	Converse	Owner	4000
811	Burt	Owner	5000
813	Frederson	Owner	3500
814	Magnin	Heyer	300000
815	S & W	Young	3500
816	Rodwick	Owner	1700
817	Menney	Owner	6000
818	Wilcox	Owner	35000
819	Berg	Owner	3500
820	Armstrong	Owner	8000
821	Netherby	Owner	4000
822	San Leandro	Gossett	3500
823	Gottfried	Anderson	4750
824	Dietz	Roth	30000
825	S F Bay Airdrome	Owner	1000
826	Marshall	Christiansen	9500
827	Davis	Owner	1400
828	Weiss	Nichols	3000
829	Burns	Sheridan	2500
830	United Home	Owner	1200
831	Masson	Owner	2000
832	Agar	Peterson	6850
833	Markart	Owner	1000
834	Telley	Owner	1300
835	Colvin	Lukins	9500
836	Woodburn	Owner	4975
837	Stone	Green	1500

838 Palm Owner 1500
 839 Griffith Owner 4000
 840 Griffith Owner 4000
 841 Texas Ownr 4800
 842 Clark Haskell 1200
 843 Alpha Moren 10000

STEEL WORK

(809) 850 E 14th St., **SAN LEANDRO**; steel construction.
 Owner—Carl Grazzane, 42 Haas Ave., San Leandro.
 Plans by Gilmore Oil Co.
 Contractor—Melrose Steel Co., Oakland. \$2300

RESIDENCE

(810) 21 FLORIDA AVE., **BERKELEY**; one-story 6-room 1-family frame residence.
 Owner—Earl R. Converse, 1088 53rd St., Oakland.
 Architect—None. \$4500

RESIDENCE

(811) 2506 BUENA VISTA AVENUE, **BERKELEY**; two-story 6-room 1-family frame residence.
 Owner—J. M. Burt.
 Architect—W. H. Hooper, 732 Cragmont Ave., Berkeley. \$5000

RESIDENCE

(813) 37 MARYLAND AVE., **BERKELEY**; one-family residence.
 Owner—T. Pederson, 2145 Grant St., Berkeley.
 Architect—None. \$3500

STORE

(814) NW COR BROADWAY AND 20th St., **OAKLAND**; four-story concrete and steel store building.
 Owners—E. John and Grover A. Magnin, % I. Magnin & Co., Grant Ave. and Geary St., San Francisco.
 Architect—Weeks & Day, Financial Center Bldg., San Francisco.
 Contractor—Chas. W. Heyer, Jr., Mills Bldg., San Francisco. \$300,000

ADDITION

(815) 500 HIGH ST., **OAKLAND**; addition.
 Owner—Young & Spring Wire Corp., 900 High St., Oakland.
 Architect—None.
 Contractor—L. A. Young. \$3500

DWELLING

(816) N PENNIMAN 300 W High St., **OAKLAND**; one-story four-room dwelling and 1-story garage.
 Owner and Builder—Ellen Rodwick, 2131 Monticello Ave., Oakland.
 Architect—None. \$1700

STORE & DWELLING

(817) NW COR. 62nd AVE. and E 17th St., **OAKLAND**; two-story store and dwelling.
 Owner and Builder—T. R. Meaney, 6218 E 17th St., Oakland.
 Architect—None. \$6000

APARTMENTS

(818) W SHAFTER AVE. 200 S 40th St., **CAKLAND**; three-story 48-room apartments.
 Owner and Builder—A. C. Nelson, 3600 13th Ave., Oakland.
 Architect—None. \$35,000

(820) N PARAMOUNT ROAD 500 S Longridge, **OAKLAND**; two-story 8-room dwelling.
 Owner—J. R. Armstrong, 4157 Greenwood Ave., Oakland.
 Architect—None. \$8000

RESIDENCE

(819) 1609 CEDAR ST., **BERKELEY**; one-story 5-room 1-family frame residence.
 Owner and Builder—E. Berg, 629 56th St., Oakland.
 Architect—P. Anderson, Davis Court, Alameda. \$3500

RESIDENCE

(821) 537 COLUSA AVE., **BERKELEY**. One-story 5-room 1-family frame residence.
 Owner—W. A. Netherby, 3852 Lyman Road, Oakland.
 Architect—None. \$4000

LIBRARY

(822) BREED AND DUTTON AVES **SAN LEANDRO**. First alde and library tile building.
 Owner—San Leandro School
 Architect—J. J. Donovan, 1916 Broadway, Oakland.
 Contractor—C. A. Gossett, 327 Davis Court, San Leandro. \$3800

DWELLING

(823) NO. 1822 FREMONT DRIVE, **ALAMEDA**. One-story six-room frame and stucco dwelling.
 Owner—A. Gottfried, San Francisco.
 Architect—Walter H. Anderson, 1014 Doris Court, Alameda.
 Contractor—Walter H. Anderson, 1014 Doris Court, Alameda. \$4750

GARAGE

(824) SE PARK ST. AND BUENA Vista Ave., **ALAMEDA**. One-story reinforced concrete and steel public garage and salesroom.
 Owner—Dietz Motor Co., 2318 Central Ave., Alameda.
 Architect—Angelo Hewston, Alameda
 Contractor—Conrad Roth, 2101 Central Ave., Alameda. \$30,000

BUILDING

(825) NO. 2155 WEBSTER, **ALAMEDA**. Standard steel building.
 Owner—San Francisco Bay Airdrome Premises.
 Architect—None. \$1000

GARAGE

(826) W TELEGRAPH AVE. 100 S 55th St., **OAKLAND**; one-story brick garage.
 Owner—Marshall Steel, 2124 Center St. Oakland.
 Architect—Alben Froberg, Ray Bldg., Oakland.
 Contractor—H. J. Christiansen, Ray Bldg., Oakland. \$9500

ADDITION

(827) 7500 FOOTHILL BLVD., **OAKLAND**; addition.
 Owner—S. A. Davis, 7506 Foothill Blvd., Oakland.
 Architect—None. \$1400

DWELLING

(828) S MAGEE AVE. 200 E Kansas, **OAKLAND**; one-story five-room dwelling.
 Owner—Mrs. H. Weiss, 3509 Hopkins St., Oakland.
 Architect—None.
 Contractor—H. C. Nichols, 3730 35th Ave., Oakland. \$3000

ALTERATIONS

(829) NE COR. SEVENTH & Washington Sts., **OAKLAND**; alterations.
 Owner—Mr. Burns.
 Architect—None.

Contractor—R. E. Sheridan, 286 12th St., Oakland. \$2500

ALTERATIONS

(830) 1414 FRANKLIN ST., **OAKLAND**; alterations.
 Owner—United Stores Realty Co.
 Architect—None.
 Contractor—Home Mfg. Co., 552 Branman St., San Francisco. \$1200

DWELLING

(831) SW COR. 60th AVE. and Tevis, **OAKLAND**; one-story four-room dwelling.
 Owner and Builder—John D. Masson, 1133 60th Ave., Oakland.
 Architect—None. \$2090

DWELLING

(832) SE COR. TWIN OAKS WAY and Fairway, **OAKLAND**; two-story 6-room dwelling and garage.
 Owner—L. W. Apgar, 2575 LeConte Ave., Berkeley.
 Architect—None.
 Contractor—A. Peterson, 3918 Lynwood Ave., Oakland. \$6850

DWELLING

(833) 1826 COMMERCE WAY, **OAKLAND**; one-story 3-room dwelling.
 Owner and Builder—Joseph Markart, 1755A 19th Ave., Oakland.
 Architect—None. \$1000

ALTERATIONS

(834) NO. 106 MESA AVE., **PIEDMONT**. Alterations.
 Owner—R. A. Teelay, 1545 Berryman St., Berkeley.
 Architect—None. \$1300

RESIDENCE

(835) NO. 15 TERRACE AVE., **PIEDMONT**. Two-story 7-room frame residence and garage.
 Owner—Timothy Colvin.
 Architect—Ray Keefer, 3251 Lakeshore Ave., Piedmont.
 Contractor—C. W. Lukins, 1108 Underhills Road, Oakland. \$9500

RESIDENCE

(836) NO. 99 OAKMONT AVE., **PIEDMONT**. One-story 6-room frame residence and garage.
 Owner—Paul E. Woodburn, 624 Prospect Road, Piedmont.
 Architect—None. \$4975

ALTERATIONS

(837) NO. 2140 LOS ANGELES AVE., **BERKELEY**. Alterations.
 Owner—G. R. Stone.
 Architect—None.
 Contractor—J. H. Green, 2318 West St., Berkeley. \$1500

RESIDENCE

(838) NO. 3036-A FULTON STREET, **BERKELEY**. One and one-half-story 5-room 1-family frame residence.
 Owner—E. O. Palm, 3036 Fulton St., Berkeley.
 Architect—None. \$1500

DWELLING

(839) S BREED AVE 80 W 107th Ave., **OAKLAND**. One and one-half-story 6-room dwelling and

Member Insurance Brokers' Exchange

FRED H. BOGGS
INSURANCE
 490 GEARY STREET

Phone FRanklin 9400

San Francisco

one-story garage.
Owner—C. W. Griffith, 1427 87th
Ave., Oakland.
Architect—None. \$4000

DWELLING
(840) S BURED AVE. 120 W 167th
Ave., OAKLAND. One and one-
half-story six-room dwelling.
Owner—C. W. Griffith, 1427 87th Ave.,
Oakland.
Architect—None. \$4000

SERVICE STATION
(841) NW THIRTY-SIXTH AND
Grove Sts., OAKLAND. One-
story brick service station and
one-story brick battery shop.
Owner—The Texas Co., 929 S. Broad-
way, Los Angeles.
Architect—None. \$4800

REPAIRS
(842) NO. 163 MONTECITO, OAK-
LAND. Fire repairs.
Owner—Jennie E. Clark, Premises.
Architect—None.
Contractor—Albert A. Haskell, 255
Ridgeway Ave., Oakland. \$1200

BUILDING CONTRACTS

Alameda County

No. Owner	Contractor	Amt.
115 Barker	Loblau	3600

(812) 3051-53 TELEGRAPH Avenue,
BERKELEY; one-story two-room
market and stores and 2-family
frame and stucco residence.
Owner—Geo. A. Scott, 337 17th St.,
Oakland.
Plans by Builder.
Contractor—Cartwright & Huffman,
337 17th St., Oakland. \$10,000

DWELLING
(115) LOT 17 BLOCK 12, Hollywood
Resub, San Leandro; general con-
struction on 6-room dwelling.
Owner—Joseph J. Barker, San Fran-
cisco.
Architect—None.
Contractor—M. H. Loblau, Haviland
and Grove Way, Hayward.
Filed June 27, 1930. Dated.....
When cenc. foundation is in.....\$720
When rafters are in place.....720
When brown coated.....720
When completed.....720
Usual 35 days.....720

TOTAL COST, \$3600
Bond, \$1800. Sureties, American Sure-
ty Co. of N. Y. Limit, 70 days. Plans
and Spec. filed.

COMPLETION NOTICES

Alameda County

Recorded	Accepted
June 26, 1930—4841 PROCTOR AVE, Oakland. W A Netherby to whom it may concern.....June 24, 1930	
June 25, 1930—522 COLUSA AVE, Berkeley. Marie E French to O M French.....June 23, 1930	
June 25, 1930—3991 WATERHOUSE Road, Oakland. John Fleming to whom it may concern. June 25, 1930	
June 25, 1930—LOT 90 BLK 178, Best Manor Tract, San Leandro. John Young to whom it may concern..... June 26, 1930	
June 30, 1930—FOOT OF UNIVER- sity Ave., Berkeley. Southern Pacific-Golden Gate Ferries, Ltd to Clinton Constr Co (pier)..... June 26, 1930	
June 30, 1930—LOTS 12 AND 12-A Ardmore, San Leandro. Manuel A Vargas to Cohn Bros..... June 28, 1930	

June 23, 1930—NO. 282 PERALTA
St., San Leandro C F Lodge to
whom it may concern.....June 21, 1930

June 24, 1930—LOT 3 BLK 16 Map
of a Resub of a Ptn of North
Cragmont, Berkeley. Dorothy G
Hooper to Frank Pemberton.....
June 21, 1930

June 24, 1930—S ASHEY AVE 163 E
Adeline St., Berkeley. Reorga-
nized Church of Jesus Christ of
Latter Day Saints to Ed R Beebe
.....June 14, 1930

June 24, 1930—NE FORTY-FIFTH
and Telegraph Ave., Oakland. R
H Cross to The Dyer Constr. Co.
.....June 21, 1930

June 24, 1930—LOT 14 BLK 20 Mel-
rose Heights, Oakland. C R House
to whom it may concern.....
June 20, 1930

June 24, 1930—NO. 1552 LINCOLN
Ave., Alameda. Mary J Grainger
to Better Homes Corp.....June 14, 1930

June 24, 1930—PTN LOTS 4 AND 5
Blk 7, Daley's Scenic Park Tract,
Berkeley. Milton S Bonds to whom
it may concern.....June 23, 1930

June 24, 1930—LOT 16 BLK 18, Oak
Shade Tract, Alameda. Pasquale
Lombardo to O C Reite.....June 24, 1930

June 26, 1930—LOT 7 BLK 1, Bryant
Tract, Berkeley. Mrs C Castillo to
A E Correla.....June 17, 1930

June 26, 1930—LOT 19 BLK H, Es-
tudillo Estates, San Leandro. Hen-
ry Vander Haar to W A Croll.....
June 18, 1930

June 26, 1930—5115 ROSS ST, Oak-
land. Adolph and Henrietta Mor-
gensen to Self.....June 25, 1930

June 26, 1930—LOT 45, Ardmore, San
Leandro. Constant Amar to whom
it may concern.....June 23, 1930

June 26, 1930—SAN PABLO PARK,
Berkeley. City of Berkeley to S
O MacDonald & Son.....June 24, 1930

June 26, 1930—LOT 46 BLK M, Es-
tudillo Estates, San Leandro. No-
ble F and Marian B Justice to
whom it may concern.....June 16, 1930

June 28, 1930—STATE HIGHWAY,
bet. Hayward and Niles. Dept.
of Public Works, Division of
Highways, State of Calif. to
Robert Garcia.....June 25, 1930

June 28, 1930—PTN LOT 10, South
Mohrland, Eden Twp. Clyde E
Brown to whom it may concern.....
June 20, 1930

June 28, 1930—FORTIETH AND
Haleck Sts., Emeryville. Cali-
fornia Packing Corporation to
Chas D Vezev & Sons.....June 27, 1930

June 27, 1930—S CALANDRIA AVE
at line dividing Lots 349 and 350
Unit C Oak Knoll, Oakland. Tom
and Edythe L King to Henning
Carlson.....June 18, 1930

June 27, 1930—LOT 20 AND PTN
Lot 21 Blk D, Major Given Tract,
Oakland. Vincent G Cardoza to
A H Nomez.....June 26, 1930

June 27, 1930—S E-FOURTEENTH
St. near 55th Ave., Oakland.
Cutler Lobingier Packing Co to
The Austin Co of California, Ltd.
.....June 26, 1930

June 27, 1930—NO. 624 ATHOL
Ave., Oakland. Leona G Easton
to Wilbur C Cone.....June 23, 1930

June 27, 1930—BET. CASTRO AND
Main Sts. and bet. A and Prospect
Sts., Hayward. Jack Casso to
Gordon Marchant.....June 26, 1930

LIENS FILED

ALAMEDA COUNTY

Recorded	Amount
June 23, 1930—LOTS 50 and 51 BLK 3 Fruitvale Ave Villa Tract, Oak- land. M Hawelst vs Louis and Mary Barone and Carl Engman..... \$487.25	

June 28, 1930—NO. 945 EUCLID
Ave., Berkeley. Berkeley Building
Materials Co vs Francesco Cieri
and J Mottino.....\$108.15

June 30, 1930—LOTS 50 and 51 BLK
B, Fruitvale Villa Tract, Oakland.
Rigney Tile Co vs Louis and Mary
Barone and Carl Engman.....\$114

June 25, 1930—3287 MORCOM AVE,
Oakland. William S Hurst vs Vic-
tor E Milton.....\$139.86

June 26, 1930—LOTS 50 and 51 BLK
B, Fruitvale Villa Tract, Oakland.
D J Geesler as West Coast Win-
dow Shade Service vs Louis and
Mary Barone and Carl Engman.....
\$60.50

RELEASE OF LIENS

ALAMEDA COUNTY

Recorded	Amount
June 24, 1930—LOTS 28 AND 29 Blk 25 Map No. 6 of Regents Park, Albany. Berkeley Bldg Ma- terials Co to Emily V Holtkamp and John Doe Martin.....\$58.27	
June 25, 1930—LOT 12 and ptn Lot 13 Blk 11, map of Lands adjacent to the town of Encinal. A F Gra- bowski to Mary A and R H Buck .....\$121.50	
June 25, 1930—LOT 12 and ptn Lot 13 Blk 11, map of Lands adjacent to the town of Encinal. Alameda Electric Co to Mary A Buck.....\$108	
June 24, 1930—LOTS 28 AND 29 Blk 25 Map No. 6 of Regents Park, Albany. J C Martin to N I Pinkerton and F A Hopper.....\$744.30	
June 25, 1930—LOT 12 and ptn Lot 13 Blk 11, map of Lands adjacent to the town of Encinal. The Oak- land Bldg Materials Co to Mary A and R H Buck and Chas Ander- son.....\$292.13	

BUILDING PERMITS

SAN MATEO

BUNGALOW, \$5700; No. 923 Mt. Di-
ablo Ave. Lot 5 Blk 57, San Mateo
owner, N. Peddetti, contractor,
Frank Fenea, 712 5th Ave., San
Mateo.

BUNGALOW, \$5000; No. 914 N. Idaho
Blk 75, San Mateo; owner, John
Garbarini; contractor, Antonio
Planca, 109 Pine Terrace, South
San Francisco.

ALTERATIONS, \$10,000; W Portion
Lot 40 No. 30 Bellevue Ave., San
Mateo; owner and contractor, S.
A Wisnom, 140 S. Ellsworth St.,
San Mateo.

BUILDING CONTRACTS

SANTA CLARA COUNTY

RESIDENCE
GLEN UNA DRIVE near Bellocourt,
Glen Una Tract, bet. Saratoga
and Los Gatos. All work for two-
story residence.
Owner—Major General Frank L Winn
Palo Alto.
Architect—Birge M. Clark, 310 Uni-
versity Ave., Palo Alto.
Contractor—Wells P. Goodenough,
310 University Ave., Palo Alto.
Filed June 24 '30. Dated June 24, '30.
On 1st day of each week.....
TOTAL COST, \$14,225
Bond, \$7330. Sureties, Ira T. Bridges
and Fred Sinz. Limit, 80 working
days. Forfeit, none. Plans and
specifications filed.

SCHOOL

F THE ALAMEDA, between Persh-
ing and Lenzen Avenues, San Jose
All work for one-story concrete
school.
Owner—San Jose School District, San
Jose.

Architect—Ralph Wyckoff, San Jose
 Natolnal Bank Bldg., San Jose.
 Contractor—O'Mara & Stewart, 218
 Clara St., San Francisco.
 Filed June 27, '36. Dated June 18, '36.
 As work progresses..... 75%
 Usual 35 days 25%
TOTAL COST, \$13,140
 Bond, \$6570 Surety, United States
 Guarantee Co. Limit, on or before
 August 15, 1936. Forfeit, none. Plans
 and specifications filed.

WAREHOUSE

RACE ST. AND MOOREPARK AVE.,
 San Jose. All work for ware-
 house.
 Owner—United States Products Cor-
 poration, Race St. and Moorepark
 Ave., San Jose.
 Architect—Binder & Curtis, 35 W-San
 Carlos St., San Jose.
 Contractor—R. O. Summers, 17 N-
 First St., San Jose.
 Filed June 26, '36. Dated June 26, '36.
 On July 2, 1936..... 75%
 45 days after 25%
TOTAL COST, \$43,778
 Bond, none. Limit, on or before July
 15, 1936. Forfeit, none. Plans and
 specifications filed.

COMPLETION NOTICES

SANTA CLARA COUNTY

Recorded	Accepted
June 24, 1936—SE FRANKLIN ST. 162,005 ft. NE Maine St. SW 20 10/12 ft. x SE 113.73 ft. Part Lot 5 Blk 1 S R 1 W, Santa Clara also Lot 4 Blk 1 S R 1 W, Santa Clara also N Liberty St. 114 ft. E Main St. E 42 ft. by N 150 ft. part Blk 1 S R 1 W, Santa Clara. Michael V Kane to whom it may concern June 24, 1936	
June 24, 1936—LOT 56, Colonial Manor, San Jose. William H O'Neil to whom it may concern..... June 21, 1936	
June 26, 1936—LOT 13 BLK 141, Em- barcadero Oaks, Palo Alto. John M and Ruth Johnson to whom it may concern..... June 24, 1936	
June 21, 1936—LOT 36 BLK 2, John R Chace's Garden Villa Lots, San Jose. Iva M Wick to whom it may concern..... June 20, 1936	
June 21, 1936—LOT 6, Lincoln Manor San Jose. David L Strom to whom it may concern..... June 20, 1936	
June 21, 1936—LOT 21 BLK 1, So. Lincoln Park, Palo Alto. W J Grant to whom it may concern..... June 20, 1936	
June 23, 1936—LOT 45 Subd of Blk 100, Palo Alto. Harry L Sandow Inc to whom it may concern..... June 23, 1936	
June 23, 1936—LOT 30 W S Thorne Sub., San Jose J Lucille Barker to whom it may concern..... June 20, 1936	
June 23, 1936—SCHOOL OF Aviation, Leland Stanford Jr. University, Palo Alto. Associated Air Services Ltd to whom it may concern..... June 10, 1936	

LIENS FILED

SANTA CLARA COUNTY

Recorded	Amount
June 24, 1936—SE FOREST AVE 100 SW Waverly St. SW 150x190 ft., Palo Alto. D N & E Walter & Co vs William Staller.....\$730 21	
June 24, 1936—LOTS 46 AND 47, Clayton & Company's Land of part Las Animas Ranch Lot 55, Gilroy. H P Atkinson vs Delbert Wolf.....\$657.53	
June 21, 1936—SE FOREST AVE	

100 SW Waverly SW 150 SE 150 SE 190 NE 100 SE 30 NE 50 NW 220 to beg Pt Lots 3 and 4 Blk 23, Palo Alto. W R Ames Co vs William and Clara H Staller.....\$1884.44	
June 23, 1936—SE FOREST AVE 100 SW Waverly SW 150xSE 190, Palo Alto. Soule Steel Co, \$366.05; Bradt-Palk & Co, \$191.42; Dis- appearing Screen & Shade Co, \$472.23; Gauthier & Hutchens Inc, \$900; W C Hauck & Co, \$414; Marconi Plastering Co, \$5063.41; Malott & Peterson, \$900; Walter N Boyen Co, \$260.90; Steve and S H Anderson, \$1461.64 vs Wm Staller.....	
June 23, 1936—SE FOREST AVE 100 SW Waverly St. SW 150xSE 190, Palo Alto. Pope & Talbot, \$2350.05; Novelty Sheet Metal Works, \$1035.26; Higgins & Kraus, \$9404; E D Philbrick, \$580; Mc- Clintie-Marshall Co. of California, \$1000; Lee Hardware Co, \$1323.65; The Vanitine Co, \$100; Friedman Bros. Glass Co, \$144; A. Hamer, \$4400; Chas P Murphy, \$3908.50; William and J C Urban, \$351.25; Joseph Musto Sons-Keenan Co, \$415; D H Rhodes & Co, \$164.13; Michel & Pfeffer Iron Works, \$1557.85; MacCabe Electric Co, \$4627.43; Unceda Shade Co, \$135; Frank W Dunne Co, \$343.80 vs Wm and Clara H Staller.....	

RELEASE OF LIENS

SANTA CLARA COUNTY

Recorded	Amount
June 24, 1936—LOT B BLK 86, Los Altos Country Club, Los Altos. H A Spreen to Wells S Murphy.....	
June 24, 1936—NE BYRON 306 ft. SE Kellogg Ave SE 60XNE 112 1/2 ft. part Lot 30 and all Lot 31 Blk 100, Palo Alto. Merner Lum- ber Co to Don F and Lucille M Clark.....	
June 26, 1936—194.93 ACRES PTN Yerba Buena Rancho, San Jose. Geo Gerds to G Mancuso.....	
June 21, 1936—N 50 FT. LOT 1 BLK 111, Crescent Park, Palo Alto. B S Parkinson to Marjory S and L H Price.....\$143	
June 23, 1936—NW 40 FT. LOT 8 Blk 9 R 3 W, Mace's Southwest- ern Addn, San Jose. George M Cahill to Demetro Selafani.....	

COMPLETION NOTICES

MARIN COUNTY

Recorded	Accepted
June 25, 1936—MILL VALLEY. Irving Frank to U Tashiro.....	
June 26, 1936—SAN RAFAEL. Frank Gagnon to whom it may concern..... June 16, 1936	
June 26, 1936—SAN ANSELMO. Edward C Jackson to whom it may concern..... June 20, 1936	
June 26, 1936—CORTE MADREA. Dwight Herrick to whom it may concern..... June 26, 1936	
June 27, 1936—SAN RAFAEL. Alice B Ferguson to Tissot & Clark..... June —, 1936	

BUILDING CONTRACTS

CONTRA COSTA COUNTY

BUILDING
 NE ORINDA UNION SCHOOL DIS-
 trict Property, Richmond. All
 work for four-room frame bldg.
 Owner—Board of Trustees of Orinda
 Union School District.
 Architect—None.

Contractor—G. A. Scott, 685 23rd St.,
 Oakland.
 Filed June 26, '36. Dated —.
 Frame up \$650
 1st coat plaster inside and out 650
 Work completed 650
 Usual 35 days 650
TOTAL COST, \$2600
 Bond, Limit, forfeit, none. Plans and
 specifications filed.

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded	Accepted
June 25, 1936—LOT 12 BLK 42, East Richmond Blvd. John B Peppin and Carl Johnson..... June 15, 1936	
June 26, 1936—LOT 6 BLK 112, West Side Addn No. 2, Pittsburg. Sal- vatore Barraco to Chas Isackson June 10, 1936	

LIENS FILED

CONTRA COSTA COUNTY

Recorded	Amount
June 24, 1936—LOTS 96, 97 and 98 No 2, Walnut Lands. Diamond Match Co vs D B Strickland, et al .....\$50.55	

COMPLETION NOTICES

SONOMA COUNTY

Recorded	Accepted
June 26, 1936 — PART TROW- bridge's Subd of part of Rincon Heights Addn to Santa Rosa. Carl Klotz to W J Lindsay..... June 26, 1936	
June 26, 1936—LOTS 302-303, Canyon Upper 1, Map 9, Eagle Nest, Rio Nido. Marcus and Sophie Alter to Geo H Augustine and K Walter Oertel..... June 21, 1936	
June 21, 1936—WEST SIDE STONY Point Road south of Sebastopol Road about 1 1/2 miles west of San- ta Rosa. Loyd W Green to A E James.....	
June 25, 1936—WEST ST, Healds- burg. General Petroleum Corp of California to W L Proctor..... June 18, 1936	

LIENS FILED

SONOMA COUNTY

Recorded	Amount
June 24, 1936—PART LOT 3 BLK 2, Guerneville. John Roca, \$241; J Petrini, \$55.33; M Rickett, \$229, vs Gus Lewis, Mrs A M Cobb, An- toinette M Cobb.....	
June 23, 1936—PART LOT 2 BLK 2, Guerneville. L E French vs Gus Lewis, Lillian Lewis and Mrs A M Cobb.....\$69.55	
June 26, 1936—FITCH MOUNTAIN Tavern Tract, 10 acres, Also Lots 8 and 9 Blk O, Camp Rose Subd and Lots 1 and 2 Blk 3, Fitch Tavern Subd. Healdsburg Lum- ber Co vs Fitch Mountain De- velopment Co, Inc and A M Ewing .....\$4155.01	
June 27, 1936—PART LOT 2 BLK 2, Guerneville. C M Villemin, \$216.77 Starr Furniture Co (G A, A N and R. C. Starr), \$355.50; J P Jen- sen, \$342.05; T J Bridgeford (Bridgeford Planing Mill), \$187.70 vs Gus and Lillian Dutselis and A M Cobb.....	

COMPLETION NOTICES

SAN JOAQUIN COUNTY

Recorded	Accepted
June 28, 1936—STOCKTON. South- ern Pacific Co to Gannon & Mc-	

Carty (new station building).....	June 21, 1930
June 26, 1930—LOT 11 BLK B, McClaud's Addn, Stockton, Bethel Full Gospel Church to John and Edna Kohrer.....	June 25, 1930
June 27, 1930—LOT 15 BLK 14, Lark Park, Stockton, Lloyd McNelly to T E Williamson.....	June 24, 1930

LIENS FILED**SAN JOAQUIN COUNTY**

Recorded	Amount
June 25, 1930—LOTS 11 and 12 Div A, Mr View Acres, Stockton, Good Lumber Co vs Timoteo Lamas.....	\$465.60
June 26, 1930—LOT 29, Nile Garden Farms Tract, Stockton, Hayward Lumber & Inv Co vs Frank Larson.....	\$58.93
June 26, 1930—PTN SW ¼ SEC 9 T 1 S R 7 E, Stockton, Hayward Lumber & Inv Co vs J B Knight.....	\$102.36

BUILDING CONTRACTS**MONTEREY COUNTY**

PACKING SHED
CITY OF SALINAS. All work for vegetable packing shed
Owner—Monterey County Ice & Development Co., Salinas.
Architect—None.
Contractor—E. M. Britt and Angus L. Vitelle Prunedale Dist., Salinas.
Filed June 26, '30. Dated June 16, '30
On 1st and 15th of each month 60%
Usual 35 days.....Final
TOTAL COST, \$8172.
Bond, \$4086. Surety, Glens Falls Indemnity Co. Limit, forfeit, none.
Plans and specifications filed.

BUILDING PERMITS**RICHMOND**

COTTAGE, 5-room, frame & plastered and garage, \$3900; E Key Blvd, bet. Barrett and Roosevelt Sts., Richmond; owner, E. W. Bosham. 1126 Macdonald Ave., Richmond; contractor, Peppin & Johnson, 1126 Medonald Ave., Richmond.
REMODEL and add to frame church, \$4300; NW Twelfth St. and Nevln Ave., Richmond; owner, First Church of Christ Scientist, Prem. contractor, R. E. Johnson, 560 36th St., Richmond.
BOTTAGE, 5-room and garage, frame and plaster, \$3900; N Burlingame, bet. San Benito and Mendocino Sts., Richmond; owner and contractor, F. Pierce, 6121 Burlingame St., Richmond.

COMPLETION NOTICES**MONTEREY COUNTY**

Recorded	Accepted
June 20, 1930—LOTS 30 AND 32 Blk 5, Map of Monterey Heights, Monterey, Miguel and Matilda Lopez to J C Anthony.....	June 13, 1930
June 24, 1930—LOT 24 and W 50 ft Lots 10, 11 and 12 Blk 2, Map of Spring and Abbott's Addn to Salinas City.....	August 1, 1930
Luigina Cava to J S Boyd.....	June 19, 1930
June 25, 1930—LOT 11 BLK 5, Monte Regio, Burton S Boundey to Walter B Snook.....	June 16, 1930
June 27, 1930—LOTS 4 AND 5 BLK 57, Addition No 5, Carmel-by-the Sea. Mrs. Edith Anderson to M J Murphy, Inc.....	June 25, 1930

June 27, 1930—LOTS 5 AND 6 BLK 76, Carmel-by-the-Sea. R C De Yoe to Overhulse Brothers.....	June 23, 1930
---	---------------

LIENS FILED**MONTEREY COUNTY**

Recorded	Amount
June 23, 1930—LOT 1 BLK 3, Map of Stone Homestead Addition to Salinas: Phillips Heating & Plumbing Co vs J Scarpa.....	\$112.65
June 23, 1930—LOT 12 BLK 14, Stone Homestead Addition to Salinas, Phillips Heating & Plumbing Co vs Ralph Alger.....	\$167.75

RELEASE OF LIENS**MONTEREY COUNTY**

Recorded	Amount
June 25, 1930—LOT 7 BLK 10, Homestead Addition, Monterey, Sterling Lumber Co to Abbie M Mann.....	\$152.85

BUILDING PERMITS**SACRAMENTO**

REMODEL, \$10,000; 1122 7th Street; owner, Capital Nat. Bank, 7th and J Sts., Sacramento; contractor, Wm. C. Keating, Forum Bldg., Sacramento.

COMPLETION NOTICES**SACRAMENTO COUNTY**

Recorded	Accepted
June 27, 1930—LOT 4 AND E ¼ Lot 3, K. L. 67, Sacramento, The Lurie Co to whom it may concern.....	June 24, 1930
June 27, 1930—E 19 ET. OF S 82 ft. Lot 10 and E 20 ft. N 68 ft. Lot 10 and E 6 ft. of N 68 ft. of W 20 ft. Lot 10 Blk 21, Oak Park and South Sacramento, Amelia and Joseph Reichmuth to whom it may concern.....	June 20, 1930
June 25, 1930—LOT 81, Harding Pl, Sacramento, George W Townsend to whom it may concern.....	June 23, 1930

LIENS FILED**SACRAMENTO COUNTY**

Recorded	Amount
June 25, 1930—LOT 34 Crescent Pk known as 1301 Santa Ynez, Western Lumber Co vs Richard L and L Marie Spore and G O Griffith.....	\$995.13
June 25 1930—LOT 34, Crescent Pk known as 1301 Santa Ynez, W A Finnell vs Richard L and L Marie Spore and G O Griffith.....	\$738.60

BUILDING PERMITS**FRESNO**

ALTERATIONS and additions, \$12,000; 1130-34 Fulton St.; owner, A. L. Wallace; contractor, Fisher & McNulty, Mattei Bldg., Fresno.
ALTERATIONS and additions, \$1800; No. 232 N. Fulton St., Fresno; owner, Dan Mencerelli, 839 Wilson St., Fresno; contractor, J. T. Cowan, 750 Elizabeth St., Fresno.

COMPLETION NOTICES**FRESNO COUNTY**

Recorded	Accepted
June 25, 1930—LOTS 35 AND 36 Blk 69, Sierra Vista Addn No. 4,	

Fresno Walter Jarvis to whom it may concern.....	June 25, 1930
June 25, 1930—LOT 23 PART LOT 22 Blk 3, Zapps Park No. 2, Fresno, Mary E Todd to whom it may concern.....	June 23, 1930
June 27, 1930—LOTS 21, 22 AND 23 Blk 1, Grand Ave Park, Fresno, Aleides Gabriel to whom it may concern.....	June 25, 1930
June 27, 1930—LOTS 21 AND 22 Blk 20, Sierra Vista Addition, Fresno, Thos and Alma Ficon to whom it may concern.....	June 25, 1930
June 28, 1930—LOT 21, Sequoia Park Subd No. 1, Fresno, J A Royer to W H Richmond.....	June 27, 1930

LIENS FILED**FRESNO COUNTY**

Recorded	Amount
June 27, 1930—LOTS 29 AND 30 Blk 86, Fairmont, Fresno, C E McMullin vs Clem Drake et al.....	\$109

WILL STANDARDIZE PROCEDURE IN CONSTRUCTION CREDIT PLAN

The object of the Cleveland meeting is to standardize procedure and to adopt certain identical promotional methods so that the full strength of the various groups may be used in launching new bureaus, in supporting those already in existence, and in providing a rational interchange of credit information, Mr. Harding says.

Among the subjects taken up at the meeting are methods of financing the promotional work; the exchange of delinquent account information on a national basis, and the preparation and training of promotional and operating executives for the new credit stabilization movement.

The plan is in harmony with that adopted by the executive board of the Associated General Contractors at its meeting in Washington on April 30, for a national credit structure for all branches of the construction industry, including, in addition to local credit bureaus in the building industry, statewide credit stabilization movements in the engineering construction field. Both types are co-operating with the Bureau of Contract Information, Inc., at Washington, to the extent of forwarding delinquent account reports so that the bureau may act as a national clearing house for credit information.

Definite steps to check cut-throat competitive bidding and loose credit practices, which have been so detrimental to the construction industry during the past few years, will be taken at a meeting of representatives of the Associated General Contractors of America, the National Building Supply Dealers' Association, and nearly a score of nationally organized subcontractor groups, held at Cleveland, O., this week, according to E. J. Harding, assistant general manager of the Associated General Contractors.

Co-operative utilization of both selling and buying power in the enforcement of standard credit policies, thru the bringing together of all existing associations, both local and national, to curb unwarranted extension of credit, is the basis of the plan which is expected to be launched at the meeting.

The program is based on work already accomplished in the establishment of credit bureaus in the building field, which includes a score or more of operating trade bureaus developed following the drawing up of the credit stabilization plan by the Allied Construction Industries Committee two years ago.

BUILDING *and* ENGINEERING NEWS

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Thirtieth Year, No. 28
Published Every Saturday



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TARIFF TO BENEFIT THE BRICK INDUSTRY

"The brick industry will profit by the new Tariff Law," says the current issue of the monthly digest of the Common Brick Manufacturers' Association.

"This industry was asleep when the Tariff Law of 1922 was being written and an active enemy of the industry was influential in getting brick on the free-list without opposition.

"The wide difference in the standard of living, as between some of the European countries and the United States, brought the brick industry in the vicinity of the New York market into a most unfortunate position. Brick was manufactured in Belgium, transported by boat to New York, and placed on the dock at a price below the actual cost of production in the Hudson River plants. Foreign importers were building up a fine business with no profit, however, to American builders or home owners.

"The industry united and thoroughly awakened to the danger of spreading importations to all ocean and gulf ports and caused brick to be included in the new Tariff Bill.

"The duty of \$1.25 per thousand on all building brick became effective by the signing of the Bill by President Hoover. This has not yet affected the price of brick even in the New York market, and there is no possibility of the duty exerting the slightest influence elsewhere in the United States.

"New York is one of the largest producing markets in the world and more than 40 manufacturing plants in the Hudson Valley have ceased to operate, either permanently or temporarily, since foreign brick came into the market. Competitive conditions can be depended upon to prevent any advantage being taken of a duty on brick as is evidenced by the fact that the duty has not yet been reflected in the price of brick to the consumers in the Metropolitan area.

"The activities in New York are not more than 50 per cent of the volume of a year ago. The sales in Chicago, Detroit, Boston, and other large centers are similarly reduced. The shipments of brick are about in proportion to the volume of construction as compared with the conditions a year ago.

"Current reports show practically one-half of the plants closed down. There is a seasonal improvement, however, in the amount of brick shipped as compared with earlier months of the year, but as yet there is nothing to indicate immediate return to normal. Basic conditions must improve before there will be a betterment in construction."

The Philippine Hardwood Export Association has officially adopted the standard grading rules of the National Hardwood Lumber Association of the United States, according to information received from G. C. Howard, American trade commissioner at Manila.

LUMBERMEN AGREE ON NEW PRICE POLICY

"An Individual firm price policy" for lumber sales as a basic program for the entire lumber industry, was unanimously approved by representative lumbermen, meeting at Tacoma, Wash., July 2, under the auspices of the West Coast Lumbermen's Association.

With the approval of the individual firm price policy in principle went the recommendation that the chairman appoint a committee to work under the direction of Col. W. B. Greeney, secretary-manager of the association, to be submitted not later than July 15 to the industry for consideration.

The plan approved in principle does not contemplate price agreements between mills, association officials stated.

It means, it was announced, that each mill, if it approved the idea of a firm price basis for its sales, issues a printed list of prices for the various items it manufactures and then sells only on this list until it is supplanted in the regular way by another listing.

JADWIN HEADS NEW FEDERAL POWER BODY

Lieutenant General Edgar Jadwin, who as chief of army engineers gained an intimate knowledge of the country's waterways, has been selected by power commission, General Jadwin retired seven months ago from the post in which he supervised the development of waterway and worked out the Mississippi flood control program. In his new post he will pass upon applications to develop power resources in navigable streams and on public lands.

Jadwin has agreed to accept the appointment. His nomination, with those of the other four commission members will be sent to the Senate in special session this summer for confirmation.

When two members have taken office the new commission will supplant the old one, which has as its members the Secretaries of War, Interior and Agriculture, and which, since 1920, has supervised the expenditure of about \$250,000,000 for power developments.

At the beginning of the present session of Congress President Hoover recommended establishment of a new power group, because the three Secretaries were not able to give power matters the attention they merited.

J. R. Shields, city building inspector of Sacramento, reports the issuance of 163 permits during the month of June for improvements, involving an expenditure of \$175,622, bringing the total for the past six months to 786 permits for work costing \$1,774,830 as compared with 818 permits for the corresponding period in 1929, when the total operations called for an expenditure of \$2,336,950.

SOUND CREDIT AIM OF GENERAL CONTRACTORS

National establishment of sound credit policies for the entire building construction industry is expected to be effected through one of two alternate promotional plans tentatively agreed upon by the ways and means committee of the Allied Building Construction Industries at its meeting in Washington, June 23, according to E. J. Harding, a member of the committee and assistant general manager of the Associated General Contractors of America.

Both plans adequately provide for organizing, financing and maintaining nationally affiliated local credit bureaus in every important city of the country. Mr. Harding states. The plans will be submitted July 22 and 23 at Chicago, to the next conference of the Allied Building Construction Industries, comprised of some fifteen more independent national associations of general contractors, subcontractors and building supply dealers united for the cooperative utilization of both selling and buying power in the enforcement of standard credit policies.

The ways and means committee, made up of Mr. Harding, Frank Dunning of Cleveland, representing the National Builders' Supply Association, and Edward McDonnell, of Detroit, representing the Contracting Plasterers' International Association, also expects to work out prospective budgets required to achieve specific objectives and to submit them to the Chicago meeting. The committee was appointed at the meeting of the Allied Building Construction Industries, June 5, at Cleveland, when the nation-wide campaign to eliminate loose credit practices was launched.

One of the plans worked out by the committee contemplates the raising of a revolving fund through the participating national associations, which fund would be used to train field men and organize the local units and which would be repaid when the local bureau became self-supporting.

The alternate plan would utilize the services of staff members of the various participating associations in promoting the local bureau and placing them soundly on their own resources. Each plan provides for a managing director of credit bureau promotion to guide and coordinate the efforts of the field men and their relations with the Bureau of Contract Information, Inc., at Washington, which is to serve as a national clearing house of construction credit information.

The committee is to confer again before the Chicago conference and will develop further details in what contractors and building supply men generally believe to be the most important promotional drive that has been undertaken in the building construction industry in years.

STATEMENT OF CONDITIONS IN CONSTRUCTION INDUSTRY

By Julius H. Barnes, Chairman of National Business Survey Conference

Julius H. Barnes, chairman of the National Business Survey Conference, in a statement on business conditions throughout the country, says of the construction industries:

For the year to June 20, non-residential building was less than last year by a little more than \$110,000,000, or 9%; public works and public utilities exceeded last year's volume by a little over \$110,000,000, or approximately 20%; but residential building fell behind by nearly \$500,000,000. The comparative figures for contracts awarded during these periods were: non-residential building—this year, \$1,136,000,000 against \$1,246,000,000 last year; public works and public utilities—this year, \$648,000,000 against \$572,000,000 last year; residential building—this year, \$554,000,000 against \$1,045,000,000 last year.

Total building contracts for all classes this year to June 2 were \$2,375,000,000, against \$2,864,000,000 for 1929 and \$3,275,000,000 for 1928. (The building contract figures are from the F. W. Dodge Corporation).

May permits for additions, alterations, and repairs in 295 cities show 2% increase in value for May over April, and April for these same cities was 7% greater than March.

Awards of concrete pavement to June 14 totaled 73,925,716 square yards as compared with 65,473,233 to June 15, 1929, and 71,446,632 to June 16, 1928. Contracts awaiting award are 24% above 1929 and 11 per cent above 1928 on the same dates.

Concrete road yardage continues to exceed by a substantial margin road awards in any previous year, being 27% greater than 1929 and 21% greater than 1928. Street and alley yardage still falls short of previous records in nearby years.

Shipments of cement in May increased 30% over April and 3% above May, 1929. Production exceeded shipments only slightly.

The lime industry is more than 13% below last year. Shipments of chemical lime are at the same level as last year, but the demand for lime for construction purposes continues low. Agricultural lime is dormant at this season.

Shipments of crushed stone, sand and gravel are running 5 to 10% below the same period of last year. The demand for road construction purposes is about the same as last year, but railroad ballast orders have been considerably curtailed.

Structural Steel

In the early weeks of June inquiries for structural steel were in good volume, representing the highest tonnage reached in a year and a half. In May new orders placed increased sharply over new orders for April, although approximately 12% under new orders in May, 1929. Shipments in May, reflecting conditions earlier in the year, were under April and also under May last year.

Orders for concrete bars during the year to date totaled 152,000 tons, as contrasted with 160,000 tons in the corresponding portions of 1929.

Shipments of sanitary-ware followed the lag in residential building, being substantially smaller in May this year than in May, 1929.

Shipments of porcelain plumbing

fixtures in the first five months of 1930 were 45% below shipments for the same period of 1929, and shipments of plumbing and heating supplies were 50% below.

May shipments of plate glass were 16% below May, 1929, while production was 2% lower and stocks were larger.

During the past few weeks the production of lumber has declined steadily and at present is 20% below the same date last year. Shipments and orders continue below production and west coast mills are operating at less than 60% capacity.

The average price index for building materials shows a slight softening in June as compared with May for sand, crushed stone, cement, common brick, and lumber, with gravel, structural steel, and hollow tile remaining firm or increasing slightly.

Iron and Steel Industries

Pig iron production for the first five months of 1930 was 14.5% below production in the corresponding part of 1929,—this part of 1929 having a record production,—and being 15,387,000 tons was within 10,000 tons of production during the first five months of 1928, a good year. The daily average production in May of this year was within 1% of the daily average production in May, 1928, and within 5% of the daily average in May, 1927, but 17% below May, 1929, which was a record for May.

Output of steel ingots in the first five months of 1930 was 20,352,000 tons, this amount being exceeded in a like period only in three earlier years.

Specifications during May for steel to be used in shipbuilding increased to 40,000 tons. Gas and lime pipe mills with few exceptions have orders on their books which will carry them at capacity to the end of the year, the aggregate being in excess of 1,600,000 tons. Orders received by such mills in May and June to date have exceeded 500,000 tons, a record figure for such a period.

The level of iron and steel prices declined somewhat further in May and the first week of June, but for several weeks has now remained stationary at a point approximately 10% below the level in May, 1929, and 4% below the level at the middle of 1928.

Indices show employment in the iron and steel industry slightly less in May than in April, and at almost exactly the same point as in May, 1928, but 10% under May, 1929, and with payrolls about 4% under May, 1928, and 19% under May, 1929.

Hardware

Sales of hardware at retail, as reported by 900 dealers through their national association, were on the average 4% under sales in May, 1929. Manufacturers of items of hardware that are seasonal have now brought their operations to the 1929 level, but those making items for use in construction are operating approximately at 65%. Payrolls of manufacturers of hardware in all of its forms show about 7% more employees than in May, 1928, but 13% less, payroll disbursements, and 11% fewer em-

ployees and 24% smaller payroll disbursements than in May 1929.

Machinery

The machinery industry as a whole is operating between 65 and 70% of capacity, with inquiries and orders in May less than in April. Exports of construction, metal-working, and oil well and refining machinery for the first five months of 1930 averaged approximately 25% over exports in the corresponding part of 1929.

Orders in May for machine tools were 25% under April, reaching their lowest point since November, 1927. Shipments in May were 16% less than in April. Unfilled orders on the books at the end of May represented something less than 2 months' work at the May rate of production. Employment indices showed larger forces than in 1928 but payrolls about 12% less, both employment and payrolls being substantially less than in May, 1929.

Heavy machinery builders' activities represent about 70% of capacity.

Electrical Manufacturers

Activity in electrical machinery in May of this year continued below the level in the corresponding part of 1929 but was approximately 20% over the level in the corresponding period of 1928. The May level of activity was lower than in any of the preceding months this year.

Electrical refrigeration continues active, but radio sales and sales of other appliances are seasonally at a low point.

STANDARD DESIGNING OF HOMES IS STUDIED

A certain amount of standardization in the planning and designing of homes would open up increased possibilities for marketing standardized lumber and other building materials, it was stated orally June 24 by the chief of the lumber division, Axel H. Oxholm, of the Department of commerce, says the U. S. Daily.

Frequently the designer does not consider the standard sizes of width and length of lumber, and therefore in actual construction the next size must be cut down, resulting in considerable waste, he said. The manufacturer of ready cut lumber for building purposes endeavors to manufacture the lumber items of a house to exact sizes required in an effort to reduce hand sawing on the job to a minimum.

Mr. Oxholm pointed out that a sawmill or woodworking plant catering to this business has little difficulty in finding outlets for practically all sizes of lumber produced. The movement of lumber manufacture is rapidly gaining ground and eventually will reduce the cost of construction, it was explained.

According to Mr. Oxholm, the local designer or builder will not need to cramp his style or individuality, since in most instances it makes little difference whether the width of a room is 14 feet or 14 feet 2 inches.

It is evident, Mr. Oxholm said, that 2 inches in excess of a standard length means the purchase of the next longest even length and the waste of 2 inches of good lumber.

BILLION DOLLARS AVAILABLE FOR "NON-SPEC" HOME BUILDING

There is nearly a billion dollars "praying" to be borrowed for non-speculative home construction and ready to be passed out over the counters tomorrow morning in 46 cities in the United States. Herbert U. Nelson, executive secretary of the National Association of Real Estate Boards, today told the Association directors assembled in Toronto, Canada, for the organization's 23rd annual convention.

San Francisco has \$52,000,000 ready for such a purpose. Los Angeles has \$22,000,000 and San Diego has \$6,000,000, Nelson declared.

People who have been saying that money is tight in the United States just haven't been around to their brokers lately, for if they want it for sound building projects, they probably will be ushered right into the president's private office, said Mr. Nelson.

Because the Association felt that resumption of building asked by President Hoover had been delayed due to a "timidity" on the part of the public to ask for construction loans, a survey on what is actually available in 46 widely separated cities was completed by the Association a week ago, said Mr. Nelson.

The survey, which is supported by documentary evidence from individual banks and mortgage houses, revealed that \$843,712,000 can be loaned "at once" in these 46 cities for non-speculative building. Lending institutions in Chicago reported the highest figure available, the returns from that city totaling \$300,000,000 ready to be loaned for this purpose.

Pointing out that much of the unemployment in the States has been due to a country-wide curtailment of residence and other construction, which has affected not only the building trades workers, but the thousands of employees of factories manufacturing materials and equipment used in building, Mr. Nelson stated that the stock market crash of last fall and the subsequent business depression has "scared" people throughout the country from asking for construction loans.

"The man in the street is still talking hard times and really doesn't believe he could raise very much money for home building or any other construction enterprise in which he might be interested," said Mr. Nelson. "If you asked the average fellow if this is a good time for home buying or building, he would gloomily say, no! Yet it is a good time, always is a good time, when mortgage money is available.

"We have believed for some weeks that the tide was turning and that money was again ready for sound building projects, especially for home building of a non-speculative character. For this reason we made a very careful survey only last month on what is available, not for the fall, or for the year, but what is available this very minute, in 46 cities, scattered from coast to coast.

"Inquiries addressed to local banks, mortgage houses, and representatives of insurance companies and others usually having funds to lend for such purposes, stressed the point that we only wanted figures on non-speculative projects. It is only a resumption of building of this character

which will produce steady incomes and good returns on investments that will aid business conditions. The financing of speculative enterprises or shaky projects which might fail to give the investors fair earnings would only add to the depression. Hundreds of the reporting financial institutions stated that their funds were ready but only for sound enterprises.

"Invariably these institutions, some of which bear names nationally known, expressed great preference for the individual home owner, and declared that all of their available funds could be secured by dependable people undertaking home ownership.

"The returns, which were collected and checked by the local real estate boards in the cities where the surveys were made, also made it plain that these institutions understood that general totals for the cities were to be made public and that people would be urged to call upon them for funds up to these amounts, perhaps at once. It is significant that even very small towns show an adequate amount available for home construction and other building, so that all and people everywhere can undertake home ownership immediately if the money is not in the large towns, they wish to do so.

PISTOR, STEEL CHIEF, SAILS FOR EUROPE

George E. J. Pistor of the Hay Foundry & Iron Works, New York, and treasurer of the American Institute of Steel Construction, sails next Thursday aboard the Hamburg-American liner, New York, for a two months tour of Europe. Incidentally Mr. Pistor will represent the Institute at a number of important meetings abroad while he is away.

On July 18 he is scheduled to deliver an address at the hall of the Institute of Mechanical Engineers, London, on the art and the economics of skyscrapers. Preceding the address Mr. Pistor will be entertained at luncheon by the British Steelwork Association at the Grosvenor Hotel, London. Supplementing the speech will be shown a motion picture film illustrating the method of building a skyscraper in the United States. The audience will consist of British steel mill representatives, fabricators, engineers and others interested in construction work.

On July 21 Mr. Pistor will address a joint meeting of the Royal Institution of Engineers and the Association of Dutch Architects at The Hague, Holland. Following this Mr. Pistor will proceed to Duesseldorf, Germany, as the guest of the Stahlwerks-Verband, A. G., whose officials and associates he will address on July 23.

Returning via France Mr. Pistor has been requested by the Office Technique Pour L'Utilisation De L'Acier to address the French Structural Steel interests in Paris on August 20. On September 1 he will attend the International Congress of Steel Construction at Liege, Belgium, where an international array of structural interests has been called under the auspices of the Belgium Government.

HERE — THERE — EVERYWHERE

San Jose Brick and Tile Co. and Nils E. Johnson, general contractor, have filed applications for membership in the San Francisco Builders' Exchange.

Although building activities in Roseville, Placer county, are at their lowest ebb, the carpenter's union has demanded a raise in pay. The union wage has been boosted from \$8 to \$9 a day, effective September 1. The five-day week will go into effect immediately.

Settlement of all but nine death claims out of more than 400 and of all demands for losses for personal property and property damages of all kinds arising out of the St. Francis dam disaster of March 13, 1928, has been announced. The cost to the city of Los Angeles will be about \$7,000,000, which includes \$1,000,000 used at the time of the disaster for relief work.

Carl Richards was elected president of the Master Painters and Decorators Kesterton Lumber Company, operating a plant at Dorris, Siskiyou county, suffered a \$775,000 fire loss June 28. Approximately 12,000,000 feet of stocked lumber was destroyed.

To determine the proportion of the structural steel output used in buildings, bridges, other heavy structures and light structural work, the Census Bureau, at the request of the American Institute of Steel Construction, is making a special survey covering 1928 and 1929. Although structural steel bookings and shipments are currently reported, no comprehensive information has been available on the type of construction in which this tonnage is used.

Association of San Jose at the semi-annual meeting of that organization July 2. Other officers elected were: Harry Loose, vice-president; C. E. Humphrey, second vice-president; H. E. Hunter, secretary; Dan Leonardi, sergeant-at-arms; Chas. Lynds, statistician.

W. D. Allen of Palo Alto was elected president of the National Retail Hardware Association at the annual convention at St. Louis June 27. Others chosen were: Thomas B. Howell, Richmond, Va., vice-president, and H. P. Sheels, Indianapolis, managing director.

Bar cards showing new standard billing weights for reinforcing steel are being distributed by the Concrete Reinforcing Steel Institute, Chicago, Ill.

Improved Havemeyer steel joists, which are now made by welding together specially designed twin-tee hot-rolled shapes as top and bottom chords with plain round bars as web members, are described in a 24-page illustrated booklet issued by the Concrete Steel Co., New York City. Design instruction, specifications and load tables for use in steel joist floor construction are also included.

The total value of building permits issued in Seattle for the first six months of the current year involved an expenditure of \$16,332,380, as compared with \$20,508,300 for the corresponding period in 1929.

ALONG THE LINE

A. Emory Wishon has been elected vice-president and general manager of the Pacific Gas and Electric Company.

Frank A. Morrell, 46, for ten years city electrical inspector at Stockton, died at his home in that city, Sunday, July 6. Death was due to heart trouble.

H. E. Wood, city building inspector of El Cerrito, Contra Costa county, has submitted his resignation to the city council. His successor has not yet been appointed.

After studying architecture in Europe for the past four years, Ray G. Herold of San Jose, plans to open an office in the San Francisco Bay District for the practice of architecture.

F. W. McCarson and George D. Macomber, candidates for the office of county surveyor of Stanislaus County, told of their qualifications for that office at a recent meeting of the Modesto Chapter, American Association of Engineers.

Fresno took the first step towards municipal ownership of gas and electric utilities when C. C. Van Valkenburgh, Jr., city engineer, was instructed to secure options on gas property from which a sufficient quantity of natural gas may be obtained for the gas and power generation needs of the city's consumers.

Theodore M. Matson, formerly resident engineer of the San Francisco Traffic Survey Committee, who prepared the basic data for the McClintock traffic report, has been appointed assistant traffic engineer of Philadelphia, it is announced by Ralph W. Robinson, executive secretary of the Traffic Survey Committee. Robinson received word of Matson's appointment in a letter from McClintock announcing the windup of a traffic survey made for Kansas City. Matson is a graduate of Stanford University and for two years was research engineer for the Pacific Gas and Electric Company.

TRADE NOTES

Victor G. Paulsen, for the past five years with the Pacific Portland Cement Company, has been appointed Pacific Coast representative for the Atlas-White Cement Co. Paulsen will maintain headquarters at the San Francisco Builders' Exchange.

Flanagan Machinery Co., Inc., formerly located at 321 Clay Street, is occupying new quarters at 522 Fourth St., Oakland. The need to meet demand for increased production and the installation of new and more modern equipment, necessitated the move.

A. Leschen Rope Company, manufacturers of wire rope and wire rope tramways, with head office and factory at St. Louis, Missouri, and Pacific Coast offices, formerly located in the Monadnock Building, has just taken larger quarters in the new building at 529 Fourth St., San Francisco, where one floor and mezzanine is occupied. It is anticipated facilities will be increased 75% to 100% in the new location. The San Francisco office is headquarters for Pacific Coast states, and branch stock is maintained in Portland Seattle and Los Angeles.

JUNE BUILDING TOTALS

Following is a compilation of building permit totals of the principal cities in the Pacific Coast area for the month of June, 1930, and for comparison, those of June, 1929, as reported by building department executives in the cities listed:

City	CALIFORNIA		
	No.	June, 1930	June, 1929
Alameda	71		
Alhambra	65	\$ 71,576	\$ 134,116
Anaheim		144,250	150,290
Bakersfield		68,010	33,270
Berkeley	53	111,622	95,528
Beverly Hills	132	197,802	355,885
Burbank	93	576,050	572,215
Burlingame	33	65,760	115,970
Carmel	12	39,150	91,162
Chula Vista	17	16,100	10,395
Colton	9	13,850	47,235
Coronado		15,000	3,350
Culver City	3	16,077	8,045
Emeryville		63,551	45,126
Eureka	6	17,730	8,200
Fresno	45	46,735	235,490
Fullerton	37	109,682	114,549
Glendale	91	50,695	14,405
Hayward	101	407,915	559,248
Huntington Park	42	46,883	850
Inglewood	37	157,205	301,545
Long Beach	407	96,450	37,675
Los Angeles	2,524	1,004,575	1,019,420
Los Gatos	6	5,485,188	8,002,185
Modesto	25	3,200	17,445
Monrovia	15	25,019	42,632
Montebello	8	22,300	38,800
Monterey	22	11,175	11,775
National City	17	60,792	186,705
Oakland	306	8,517	22,540
Ontario	29	883,199	933,692
Orange	9	29,350	18,720
Pacific Grove	12	16,750	59,100
Palo Alto	32	21,735	15,500
Palos Verdes Estates	3	415,938	115,075
Pasadena	271	37,500	45,600
Petaluma	12	1,261,834	896,931
Piedmont	63	16,800	21,320
Pomona	17	37,043	118,952
Redlands	17	57,429	45,695
Redwood City	25	39,659	36,610
Richmond	34	55,330	49,110
Riverside	42	30,710	76,740
Sacramento	163	72,469	60,905
Salinas	49	175,622	490,550
San Bernardino	68	150,190	83,379
San Diego	342	142,773	163,370
San Francisco	565	448,856	541,542
San Gabriel	17	2,232,809	3,303,317
San Jose	77	59,550	26,370
San Leandro	12	501,990	200,030
San Marino	22	34,742	63,211
San Mateo	22	235,727	156,775
San Rafael	20	90,160	292,736
Santa Ana	57	22,860	15,350
Santa Barbara	94	74,182	237,678
Santa Cruz	48	184,969	306,018
Santa Monica	76	36,045	17,470
Santa Rosa	11	461,655	705,117
South Gate	42	22,925	25,070
South Pasadena	66	94,000	201,390
Stockton	122,709		27,800
Torrance	18	100,554	83,236
Ventura	11	20,300	35,400
Vernon	11	25,409	409,445
Watsonville	10	126,990	170,740
Total	6,518	45,175	44,260
		\$17,360,797	\$22,353,445
ARIZONA			
Phoenix	94	\$ 218,355	\$ 451,633
Tucson	96	257,389	517,605
Total	190	475,744	969,238
IDAHO			
Boise	54	\$ 34,983	\$ 38,565
Idaho Falls	13	25,425	33,605
Lewiston	15	14,210	16,465
Nampa	24	9,599	36,755
Total	106	\$ 84,217	\$ 175,390
NEVADA			
Reno	38	\$ 101,800	\$ 81,575
OREGON			
Albany	11	\$ 24,700	\$ 4,700
Astoria	17	6,455	3,895
Eugene	70	57,157	105,376
Klamath Falls	54	67,300	252,583
LaGrande		10,955	7,755
Marshfield	9	15,505	15,265
Portland	533	937,610	1,124,530
Salem	43	37,827	293,672
Total	737	\$ 1,157,609	\$ 1,807,276

UTAH

Logan	1	\$ 500	\$ 9,000
Ogden	26	95,575	72,675
Salt Lake City	85	496,890	870,232
Total	112	\$ 592,965	\$ 951,907

WASHINGTON

Aberdeen	42	\$ 10,170	\$ 121,540
Anacortes	5	2,800	35,875
Bellingham	46	144,545	63,165
Everett	74	98,460	31,770
Hoquiam	24	6,495	35,797
Longview	13	11,727	32,833
Port Angeles	25	32,300	34,450
Seattle	538	1,51,855	3,055,800
Spokane	183	232,474	326,683
Tacoma	214	204,290	579,435
Vancouver	18	11,496	82,600
Walla Walla	19	18,240	16,010
Wenatchee	14	179,600	314,010
Yakima	49	134,280	62,190
Total	1,329	\$ 2,718,732	\$ 4,956,198
Grand Total	9,630	\$22,491,764	\$31,295,029

THE OBSERVER

What He Hears and Sees on His Rounds

Electrical and plumbing regulations in South San Francisco will be uniform with those in other cities of San Mateo county, with the adoption of an ordinance last week by the city council.

Mr. Unlicensed Contractor and Sub-Contractor. The bogey man will get you if you don't watch out.

General contractors and sub-contractors who are operating in the State of California without a permit issued (since July 1) by the State Department of Professional and Vocational Standards, are not within the law.

Those general contractors and sub-contractors who are now legally licensed should check up and make sure that everyone with whom they are doing business has his license. Material dealers should do likewise. Their contractor customers must have licenses as the material dealer is equally liable with the contractor under the law.

REMEMBER—an unlicensed contractor has no standing in court.

John B. Leonard, superintendent of the Bureau of Building Inspection of the San Francisco Department of Public Works, has instructed his force to issue no permits to contractors unless they produce their state licenses. Building inspectors in his department have been directed to check up in the field on contractors and sub-contractors.

If you have not secured a state license since July 1, 1930, do so now.

The state license law has been in effect for a year. It has been sufficiently advertised. Contractors and sub-contractors operating without a license do so at their own risk.

Applications for new licenses or renewals may be filed with the State Department of Professional and Vocational Standards in the Phelan Building, San Francisco, or with the Registrar of Contractors, State Capitol Building, Sacramento. The license fee is \$5 a year.

Total contract awards for building and engineering construction during the first five months of 1930 were 18 per cent smaller than in the like 1929 period. This decline may be attributed practically in its entirety to the slump in the housing division, since the declines in commercial and industrial construction are about offset by expanded activities in public works and utilities and other fields of a semi-public nature, says the Standard Statistics Company, of New York, in a current survey, parts of which follow:

"The prospects are that second half year results in relation to 1929 levels will compare more favorably than those for the first six months. However, this possibility rests largely on the sharpness of last year's recession, rather than on any fundamental improvement to be expected during the remainder of this year. For the full twelve months, on the basis of a probable closing of the gap between levels of 1929 and 1930, during the August-December period, it is to be expected that the decline from last year will be somewhat lower than that previously indicated, probably amounting to some 10 to 12 per cent.

"In the building materials division, cement and gypsum products are the most favorably situated. Consumption of cement is fully up to the levels of a year ago, in spite of the building recession, sales being stimulated by the abnormal volume of public works construction. Gypsum sales naturally have declined, but the price advances since last year improve the earnings prospects for producers."

During the month of June, 1930, the Los Angeles city building department issued 2524 permits with an estimated valuation of \$5,485,138, as compared with 2325 permits with an estimated valuation of \$8,002,185 for the same month a year ago and 2772 permits with an estimated valuation of \$7,141,950 for May, 1930. Los Angeles' building total for the first six months of 1930 was \$39,712,901 as compared with \$54,071,599 for the corresponding period in 1929.

J. Elmer Morgan, editor of the Journal of the National Education Association, predicts the four-hour working day. The rapid rate of replacement of men by machines makes it reasonable to believe the working week gradually will be shortened.

"The unemployment problem is not going to solve itself," says the Ferguson Cross Section.

"In former days when folks shrugged their shoulders at poverty and piously murmured, 'the poor we have always with us,' our thinking did not go much deeper than bread-line sob stuff.

"Now that we recognize that the payroll is the yardstick of prosperity, there is likely to be some united effort of a constructive sort to ally or remove preventable causes of unemployment.

"What our workers need, after all, is not sympathy or charity, but assurance of an opportunity to earn the money to buy what they need.

"One thing is certain—something will be done about it, either by business through co-operative research or by the government. Idle plants and loss of valuable organization are too heavy a tax for business to ignore. On the other hand, the health and comfort of one hundred and twenty-five million people offers to legislators a tempting opportunity to step in with further government regulations of business.

"Some great interest or group of interests may soon decide to establish a foundation to make a new and thorough study of the problems of seasonal unemployment, the question of what to do with older workers, and how to use those who are displaced by machinery. Recommendations from a body supported by industrial capital will be accepted and put into effect with less friction and disturbance than will edicts enforced by government action.

"It looks like our move"

While the recovery of general business from last Autumn's sudden depression still lags unseasonably, engineering construction activities in most departments maintain a fair pace, though well below that required by construction budgets set up last Winter, says Engineering News-Record. But housing and for that matter all building—is at a low ebb, as it was last year, in spite of the fact that the supply of banking and commercial money is much more free and interest rates much lower than they were in 1929. Men in close contact with building operations say that they expect the second half of the year to show greater activity in large commercial building, while no one is similarly optimistic about residential work. Neither of the two fields enjoys the same credit facilities as mercantile business, though commercial building is closer to the general money market than is residential building. If money or credit were made available to these fields as readily as to industry and commerce, they would probably show a sharp improvement. Creation of an organized financial system to supply credit to the building industry is, in fact, the greatest need of the present banking structure. It should not be beyond the powers of men who are ready to build up credit systems of thousands of millions on the basis of railway and utility properties.

H. H. Cobb and Charles Lee, Jr., have been refused master plumber licenses to operate in the city of Fresno.

City Commissioner of Finance Glass refuses to issue licenses to the men on the ground that they do not possess state and city certificates as required by city ordinances.

S. F. EXCHANGE PICNIC PLANS BEING COMPLETED

Arrangements are being completed by the Entertainment Committee of the San Francisco Builders' Exchange for the first annual basket-lunch picnic to be held in Mitchell Canyon, at the foot of Mt. Diablo, Contra Costa County, Sunday, July 20, it is announced by W. H. George, president of the exchange.

Committees have outlined a program of athletic events in addition to barnyard golf, swimming, dancing and games for the kiddies. Barbecued meat and hot coffee will be served by the exchange.

Those planning to attend the picnic are requested to notify the secretary's office how many will be in their party, that arrangements might be made to provide sufficient amusement and food for all.

U. S. OPENS FIELD OFFICE IN PANAMA TO AID HIGHWAY

To cooperate with the Governments of the Central American countries in making preliminary surveys to determine the most desirable route for an inter-American highway, the Bureau of Public Roads is opening a field office in Panama City, the U. S. Department of Agriculture announces.

E. W. James, chief of the Division of Highway Transport of the bureau, who is in charge of organizing the work sailed for Panama June 21.

Thomas A. Forbes and D. Tucker Brown, Senior Highway Engineers and Marcel J. Russard, Assistant Highway Engineer, will constitute the bureau force of the Panama City field office.

Congress authorized this cooperative effort and appropriated \$50,000. The Inter-American Highway Congress in October, 1929, held at the invitation of the Republic of Panama in Panama City to discuss the road problems that each country would have to solve to make possible a connecting road, asked the Pan American Union to appoint an inter-American highway commission of from three to eight members from the participating countries to carry on the work of planning and constructing such a trunk line. Delegates from each of the Central American republics and from the United States attended the Congress.

The Bureau of Public Roads will cooperate with the Commission the department explains, and will assist in making surveys only as the several countries request such help. Five of them, Costa Rica, Nicaragua, Guatemala, Salvador and Panama, have requested assistance or indicated their adherence to the plan. Guatemala, Costa Rica and Panama have asked for assistance. Mexico has already planned a route from the Rio Grande at Laredo, Texas to the Guatemalan frontier at Suchiate, which will be constructed as rapidly as funds permit, and will cooperate to the degree that the interests of the country dictate.

FORM SUBSIDIARY

Warren Brothers Company, paving contractors, announce the formation of the Warren Brothers Financia Corporation, to deal in securities primarily acquired in connection with its foreign and domestic business, and the Warren Municipal Securities, Inc., a wholly owned subsidiary of the corporation. The latter company will deal exclusively in domestic, tax-exempt securities, whereas, Warren Brothers Financial Corporation will largely engage in foreign financing in connection with Warren Brothers Co.'s activities. The corporation, of which Charles R. Gow is president, has main offices in Cambridge, Mass.

RESIGNS POSITION RATHER THAN CUT SALARIES

Disagreeing with a salary policy proposed by the new administration of the Pickering Lumber Co., D. H. Steinmetz, vice president and general Pacific Coast manager for the past 30 years, resigned at Sonora, July 2.

Steinmetz said he had planned to retire but his disagreement with a policy which would have cut the salaries of hundreds of workmen led him to decide to resign immediately.

Mrs. Zoe Louise Pickering, widow of W. A. Pickering, is the sole owner of the \$40,000,000 lumber industry. Since Pickering's death last month a board of control has been in progress of reorganization at Kansas City.

With Steinmetz' resignation, J. C. Rassenfoss, manager of the Standard plant, and B. J. Ziegler, manager of the Tuolumne plant, left by airplane for Kansas City.

CHEMICALLY TREATED WOOD DOOR DEFEATS FIRE

Columbia University, through Prof. Albin H. Beyer of the testing laboratories of that institution, gave its approval to the latest method of flame-proofing wood when laboratory tests of the process were made recently at the plant of Henry Klein & Company, Elmhurst, L. I.

A two inch thick door of the wood held back smoke and flames six times as long as did a metal-covered door carrying the label of the Fire Underwriters' Laboratories. The protracted immunity of wood to fire is accomplished by impregnating lumber under high pressure with a secret chemical preparation. When attacked by fire, this chemical throws off a gas which kills fire on the same principle as a fire extinguisher.

In each row of cells of the wood are deposited minute chemical crystals. As one row of cells comes in contact with the flames it offers temporary resistance to the fire and is in turn supported by the millions of rows of cells behind it.

The test was conducted for Henry Klein, manufacturer, who invented the process. The metal-covered and the wooden doors were set in the sides of a large furnace, the flames sweeping their interior faces.

The metal-covered door quickly became untouchably hot, passing 120 degrees in about three minutes, and in fifteen minutes passing 660 degrees. The wood door's exterior reached 160 degrees after thirty minutes and at the end of forty-five minutes was still under 150 degrees. It did not go over 200 degrees at any time.

In the metal-covered door, after ten minutes smoke poured through the joints in heavy clouds and flames appeared. The wooden door held back both smoke and flames for a full hour until it was less than one-eighth of an inch thick.

Prof. Beyer said that the definite fire resistance of the wood is attained by the proper control of the impregnation of the chemicals. He said the door used in the test was made of treated wood, the complete processing of which took about four and a half months, first by air drying and kiln drying, then impregnation, and then air drying and kiln drying again after the treatment.

K. C. IRON WORKERS STRIKE FOR INCREASED WAGE

Members of the Kansas City iron workers union demanding \$12 a day instead of \$10.50, went on strike July 1. Work was halted on the first million dollar unit of the Southwestern Bell Telephone Company's long distance exchange building.

The builders' association, comprising local contractors, sought an injunction in circuit court to prevent the iron workers from striking, and from attempting to obtain an increase of the wage scale.

Under a contract to run two years, signed March 11 by building trades representatives and contractors, the iron workers would receive \$10.50 a day and an increase to \$11 a day Jan. 1, 1931.

N. Y. TO RESTRICT BUILDING BOND RATES

To provide incentive for the initiation of public construction projects, Albert Conway, New York State Superintendent of Insurance, announces that the rates for public contract bonds for all departments and divisions of the State of New York should not exceed one-half of one per cent of the contract price for annum for Class A construction and one per cent of the contract price for any period up to 24 months with annual renewal thereafter at one-half of one per cent on the amount of unfinished contracts at each annual renewal for Class B construction.

This action on the part of the State superintendent of insurance was taken as a result of a recent announcement that an investigation would be made by him of the rates charged for contract bonds in order to see if the charges could not be reduced as a measure to reduce the costs of construction and to assist in relieving unemployment.

PRESERVING POPLAR TREE

The Leatherwood Lumber Co., operating sawmills on Leatherwood Creek several miles from Cornettsville, Ky., is preserving what is believed to be one of the largest yellow poplar trees in the state, or perhaps in the entire country. The tree in question is 36 feet in circumference and 12 feet in diameter, and is yet quite well preserved. It is tall and stately, being over 125 feet to its first branch. To preserve the mammoth tree to posterity, ample protection is being given it. The company has marketed recently a number of big yellow poplar trees, some of them 8 and 10 feet in diameter.

EMPLOYEES GET STOCK.

E. T. Crane, Jr., head of Crane Company, plumbing supplies manufacturers, has distributed \$4,000,000 worth of the concerns' stock among employees.

The gift was made from Crane's personal holdings and was his third since 1926. The total value of the stock amounted to \$10,000,000.

Employees who have been with the company ten years or more, about 5,000 in number, were beneficiaries.

BANKRUPT

The Latham Square Corporation of Oakland, which filed a voluntary petition in bankruptcy May 10, on July 1 filed its schedule in United States District Court, showing assets of \$1,516,266 and liabilities of \$1,146,089. The principal creditor is the American Trust Company.

Building News Section

APARTMENTS

Plans Being Prepared.

APARTMENTS Cost, \$45,000
SAN FRANCISCO. SE 14th Ave. and
Taraual St.

Three-story frame and stucco apts.
(six 2-room and six 3-room apts.;
brick basement).

Owner—Harry J. Rock.

Architect—Irvine & Ebbets, Call Bldg.
Bids will be taken in about 2 weeks.

Plans Being Prepared.

APARTMENTS Cost, \$75,000
SAN FRANCISCO. NW Divisadero &
Jefferson.

Three-story frame and stucco apts.
(Spanish type; brick basement; 15
3-room apts.)

Owner—Viggo Rassmussen, 2230 Fran-
cisco St.

Architect—Irvine & Ebbets, Call Bldg.
Bids will be taken in about 2 weeks.

Construction Temporarily Postponed.

ALTERATIONS Cost, \$6000
ALAMEDA, Alameda Co., Cal.
Alter present residence for apts.

Owner—Mrs. H. W. Bridges.

Architect—Guy L. Brown, American
Bank Bldg., Oakland.

As previously reported, lowest bid
was submitted by James Fennelly, 2300
Mitchel St., Oakland.

Ornamental Iron Contract Awarded.

APARTMENTS Cost, \$75,000
BURLINGAME, San Mateo Co., Cal
El Camino Real.

Three-story and basement frame and
stucco apartments.

Owner—Philip Webster, 2401 Fulton
Ave., Berkeley.

Architect—Edwards & Schary, 605
Market St., San Francisco.

Contractor—Daly Bros., Burlingame.
Ornamental Iron—Patterson & Koster
Iron Works, 230 13th St., San
Francisco.

As previously reported concrete ma-
terials awarded to H. E. Casey, 307
E St., San Mateo; reinforced con-
crete to W. C. Hauck, 230 San Bruno
Ave., S. F.; lumber to San Mateo
Planing Mill, 501 5th St., San Mateo;
plumbing to Morrison & Blair, 415
Villa Terrace, San Mateo; heating to
P. H. Phillips; steel sash to Michel &
Pfeiffer Iron Works, Harrison and
Tenth Sts., S. F.

Plans To Be Prepared.

APARTMENTS Cost, \$—
SANTA BARBARA, Calif. 322 East
Micheltorena St.

Three-story frame and stucco apts.
(20 apts.)

Owner—L. M. Holman, 1426 Garden
St., Santa Barbara.

Architect—Not Selected.

Plans Completed.

APARTMENTS Cost, \$75,000
STOCKTON, San Joaquin Co., Cal.
American and Lindsay Streets.

Three-story brick apartments (30 2
and 3-room apts.)

Owner—Mrs. Francis Gardner.

Architect—Ralph Morrell, Union
Bldg., Stockton.

As soon as financing arrangements
are completed project will go ahead.

Sub-Figures To Be Taken.

APARTMENTS Cost, \$250,000
SAN FRANCISCO. N Vallejo and
W Franklin Streets.

Six-story concrete apartments (2
basements; 48 3 and 4-room apts.)

Owner and Builder—W. Van Herick,
50 Laguna St., San Francisco.

Engineer—J. G. Little Co., 251 Kear-
ny St., San Francisco.

Sub-bids will be taken in about two
weeks.

Sub-Contracts Awarded

APARTMENTS Cost, \$50,000
SAN FRANCISCO. S Jefferson St.
192 E Broderick St.

Three-story and basement frame and
stucco apartments (12 3 and 4-
room apts.)

Owner—J. French.

Plans by D. E. Jackle, Call Bldg., San
Francisco.

Contractor—Standard Bldg. Co., 268
Castaneda Ave., San Francisco.
(Mr. Carl Gehlert).

Lumber—Loop Lumber Co., Foot of
16th St., Central Basin, S. F.

Plumbing—Higgins & Krause, 730
Tehama St., San Francisco.

Heating—Rodoni-Becker Co., 455 10th
St., San Francisco.

Electric Wiring—Johnson Electric
Co., 758 Monterey Blvd., S. F.

Concrete—Golden Gate Concrete Co.,
2271 Turk St., San Francisco.

Bids are being taken on interior
and exterior plastering, interior tile
work, sash, doors, mill work, brick
work (brick veneer front), hardwood
floors, window shades and finish
hardware.

Incinerator Contract Awarded.

APARTMENTS Cost, \$75,000
BURLINGAME, San Mateo Co., Cal
El Camino Real.

Three-story and basement frame and
stucco apartments.

Owner—Philip Webster, 2401 Fulton
Ave., Berkeley.

Architect—Edwards & Schary, 605
Market St., San Francisco.

Contractor—Daly Bros., Burlingame.

Incinerators—Kerner Incinerator Co.,
450 Clementina St., San Francisco

Other awards reported July 3.

Plans Being Prepared.

APARTMENTS Cost, \$40,000
SAN FRANCISCO, Sacramento Street
bet. Van Ness and Polk St.

Three-story frame and stucco under-
taking establishments and apts.

A Demonstration of the SKILSAW PORTABLE ELEC- TRIC HAND SAW

Will solve your cutting problems.
(Four Models, 1/2 to 1 h. p.)

ELECTRIC HAMMERS ELECTRIC DRILLS GRINDERS, BUFFERS

PETER H. NELSON

Labor Saving Portable Electric
Tools.

1222 Mission St. Underhill
San Francisco 1267

Owner—Joseph Hagan, 1708 Sacra-
mento Street.

Architects—Henry C. Smith and A. R.
Williams, Humboldt Bank Bldg.

Bids will be called for in about three
or four weeks.

Preparing Plans.

APARTMENTS Cost, \$21,000
MONTEREY, Monterey Co., Cal. De-
vine and Wave Sts.

Two-story frame and stucco apart-
ments (Nine 2- 3- and 4-room
apts.)

Owner and Builder—Wade Halstead,
1176 Harrison St., Monterey.

Architect—W. W. Hastings, Pryor
Bldg., Monterey.

BONDS

MILPITAS, Santa Clara Co., Cal.—
Election will be held July 12 in Mil-
pitas School District to vote direct

tax of \$5,000 to finance school im-
provements. Trustees of district are:
A. L. Pashote and Joseph A. Sprang-
ler.

CERES, Stanislaus Co., Cal.—Until
July 15 bids will be received by coun-
ty supervisors at Modesto for the pur-
chase of the \$75,000 bond issue of the

Ceres School District; proceeds of the
sale to finance erection of a new school
building, plans for which are being
completed by Architect W. H. Weeks,
Hunter-Dulin Bldg., San Francisco;
1756 Franklin St., Oakland, and Bank
of Italy Bldg., San Jose.

LAKEPORT Lake Co., Cal.—Election
will be held July 13 in Sulphur
Bank School District to vote bonds of

\$8,000 to finance school improvements.
Trustees of the district are: Luella B.
Carr, Albert F. Welbert and A. L.
Story.

ALTURAS, Modoc Co., Cal.—Election
will be held July 23 in Willow
Ranch School District to vote bonds

of \$2,000 to finance school improve-
ments. Trustees of the district are: J.
M. Thompson, W. D. Bishop and J. A.
Koskela.

SAN MATEO, San Mateo Co., Cal.—
Election will be held July 12 in Rav-
enswood School District to vote direct

tax to finance school improve-
ments. Trustees of the district are:
J. P. Neffing and E. R. Talt.

SIAFTER, Kern Co., Cal.—Rich-
land School District will hold elec-
tion July 7 to vote bonds of \$10,450

for additions to Richland School.

CHURCHES

Preparing Working Drawings.

CHURCH Cost, \$50,000
POMONA, Los Angeles Co., Cal. Gibbs
and Alvarado Sts.

Masonry church (auditorium to seat
300; 118x160-ft.)

Owner—St. Paul's Episcopal Church
(Rev. Betram A. Warren, pastor).

Architect—Carleton M. Winslow, Ar-
chitects' Bldg., Los Angeles.

Working Drawings Being Prepared.
CHURCH Cost, \$20,000

EUREKA, Humboldt Co., Cal.
One-story redwood church (Colonial
type)

Owner—First Methodist Church.
Architect—Rollin S. Tuttle, Box C, Los Gatos.
Bids will be taken in about 60 days.

Contract Awarded.
ALTERATIONS Cost, \$11,000
STOCKTON, San Joaquin Co., Cal.
Alterations and additions to Temple.
Owner—Congregation Khyim Ahaavim.
Architect—None.
Contractor—L. S. Peletz, 1660 West Acacia Ave., Stockton.

Funds Raised—Plans To Be Prepared.
CHURCH Cost, \$3000
GAREHNVILLE, Humboldt Co., Cal.
Presbyterian Church.
Owner—Eel River Presbyterian Parish Church, Rev. Harold G. Morehouse pastor, Garberville.
Architect Not Yet Selected.

Bids Closed—To Be Awarded July 10.
CHURCH Cost, \$—
DUNSMUIR, Siskiyou Co., Cal.
Two-story and basement concrete church.
Owner—Roman Catholic Bishop, Sacramento.
Architect—Harry Devine, California State Life Bldg., Sacramento.
Low Bidder—J. P. Brennan, Redding, \$15,835.

Complete bid listing:
J. P. Brennan.....\$15,835
B. Kelley.....16,339
Lindgren & Swinnerton, S. F.....16,449
R. B. McKenzie, Red Bluff.....17,590
Campbell Const. Co.....18,346
Schwartz & Company.....18,570
Contract to be awarded July 16.

Completing Plans.
CHURCH Cost, \$30,000
NORTH OAKLAND, Alameda Co.
Two-story frame and brick veneer church (auditorium to seat 570).
Owner—Colored Baptist Church.
Architect—Chas. W. McCall, 1404 Franklin St., Oakland.
Plans will be ready for bids in ten days.

FACTORIES AND WAREHOUSES

Contract Awarded.
PACKING HOUSE Cost, \$20,000
VISALLA, Tulare Co., Cal.
Packing house (80x110-ft.).
Owner—Klink Citrus Growers Assn.
Architect—None.
Contractor—Chas. Godfrey, Visalla.

Plans Being Completed.
SHED Cost, \$90,000
SAN FRANCISCO, Pier No. 1
One-story shed, reinforced concrete construction; steel columns, wood roof.
Owner—State Board of Harbor Commissioners.
Engineer—Frank White Ferry Bldg., San Francisco.
Plans will be ready for bids in about two weeks.

Sub Contract Awarded
ALTERATIONS Cost, \$64,000
SAN FRANCISCO, Eighteenth and Shotwell streets
Alterations and additions for distributing office building (reinforced concrete).

Owner—Pacific Gas & Electric Co., 425 Market St., San Francisco
Architect—Eng. Dept. of Owner.
Contractor—H. H. Larsen, 64 South Park St., San Francisco.

Orn. & Mis. Iron & Structural Steel.
Sullivan Iron Works, 780 Brannan Street.

Plumbing: J. J. McLeod, 1246 Golden Gate Avenue.

Heating: George Frankel, 445 Stevenson St.

Reinforced Steel: W. S. Wetenhall, 11th & Wisconsin Sts.
Sub. bids being taken on all other portions of the work.

Sub-Bids Being Taken.
ADDITIONS Cost, \$12,000
SAN FRANCISCO, S Harrison St., E Fourth St.
Two-story concrete addition to building.
Owner—Milo Coffee Company.
Engineer and Builder—James Hjul, 128 Russ St.

Plans Being Figured—Bids Close July 14th.
WAREHOUSE Cost, \$45,000
including equipment
LIVE OAK, Sutter Co., Cal.
One-story and basement concrete warehouse and processing plant (120x90-ft.).
Owner—Walnut Growers Assn., N. F. Todd, president, Live Oak.
Architect—Albert C. Martin, Higgins Bldg., Los Angeles.

LOS ANGELES, Calif.—Bethlehem Steel Company contemplates erecting large steel plant on 100-acre site in vicinity of Slauson Ave. and Atlantic Blvd., according to reports. It is understood improvements will cost approximately \$5,000,000. E. B. Hill, San Francisco, is Pacific coast manager of Bethlehem Steel Co.

PORTLAND, Ore.—Cornell Bros., Tacoma, Wash., at \$267,970 submitted low bid to City Commission of Public Docks to construct new unit to grain elevator at Municipal Terminal No. 4. McDonald Engineering Co., San Francisco, second low at \$268,593 and Alloway and George, Spokane, Wash., third low at \$272,613. Bids taken under advisement.

Plans Being Figured.
BAKERY Cost, \$250,000
LOS ANGELES, Cal. Fletcher Drive and San Fernando Road (5 acre site).

Two-story reinforced concrete bakery (230x280 ft.).
Owner—Van de Kamp's Holland Dutch Bakers, San Fernando Bldg., Los Angeles.
Architect—The McCormick Co., 41 Park Row, New York City, N. Y.

File Driving Contract Awarded.
INDUSTRIAL BLDG. Cost, \$—
SAN FRANCISCO, SE Russ St. and Howard St.
Three-story reinforced concrete industrial building.
Owner—Eng-Skell Co., 208 Mission St., San Francisco.
Engineer—A. C. Griewank, 208 Mission St., San Francisco.
Contractor—M. B. McGowan, 74 New Montgomery St., San Francisco.
Bids on other portions of the work will be taken in about sixty days.

Plans Being Prepared.
BULLDOZING Cost, \$35,000
REDWOOD CITY, San Mateo Co., Cal.
Rodgers St.
Service buildings, including warehouse garage, machine shop and cross-arm paint plant.
Owner—Pacific Gas & Electric Co., 445 Sutter St., San Francisco.
Plans by Eng. Dept. of Owners.

Plans Completed.
ALTERATIONS Cost, \$3000
STOCKTON, San Joaquin Co., Cal.
Remodel brick laundry.
Owner—Stockton City Laundry.
Architect—Ralph Morrell, Union Bldg., Stockton.

Excavating & Grading Bids Wanted
FLANTRY Cost (est. unit) \$500,000
PITTSBURG, Contra Costa Co., Cal.
Twenty-acre site available.
Refractories plant.
Owner—Stockton Fire Brick Co., Russ Bldg., San Francisco.
Engineer—K. Theill, 580 Market St., San Francisco.
Modern equipment will be installed including a continuous car tunnel kiln. There will be considerable steel work involved.

Contract Awarded.
LABORATORY Cont. Price \$65,000
SAN FRANCISCO, N Fell Street bet. Van Ness Ave. and Polk St.
Three-story and basement reinforced concrete and brick offices and laboratory.
Owner—The Viavi Co., Van Ness Ave. and Market St.
Architect—Willis Polk Co., 277 Pine Street.
Contractor—Barrett & Hilp, 198 Harrison St., San Francisco.

Commissioned To Prepare Plans.
WAREHOUSE Cost, \$125,000
SAN FRANCISCO, 11th and Bryant Streets.
Central storage warehouse.
Owner—City & County of San Francisco.
Architect—Dodge A. Riedy, Pacific Bldg.

GARAGES AND SERVICE STATIONS

Plans To Be Prepared.
GARAGE Cost, \$—
HAYWARD, Alameda Co., Cal. Castro St. and Ward Way.
Fireproof garage.
Owner—Peerless Stages System, Pacific Bldg., Oakland.
Architect—Not Selected.
Project is in a very preliminary stage and probably will not go ahead for two years.

Bids To Be Taken In One Week.
GARAGE Cost, \$35,000
BERKELEY, Alameda Co., Cal. Durant and Fulton Sts.
One-story reinforced concrete garage and salesroom.
Owner—Victor H. Doyle, 74 Oak Ridge Road, Berkeley.
Architect—Frederick H. Reimers, Franklin Bldg., Oakland.

Contract Awarded.
ALTERATIONS Cost, \$15,000
SAN FRANCISCO, SW Van Ness Ave. and Lombard St.
Alterations to auto supply station.
Owner—Mary C. McDonald, 892 Ashbury St., San Francisco.
Architect—Masten & Hurd, 210 Post St., San Francisco.
Contractor—Associated Oil Co., 79 Montgomery St., San Francisco.

OAKLAND, Calif.—George Prentice, 2063 Webster St., Oakland, at \$4,416.70 submitted lowest bid to city clerk to erect automotive station in west side of Fifth Ave. between 1st and 7th Sts.
Following is a complete list of bids:
George Prentice.....\$4,416
Joe Triberti & Massero, Oakland 4,474
Melrose Steel Co., Oakland.....5,900
Bids held under advisement.

Plans Being Figured.
SALES BLDG. Cost, \$20,000
NEWMAN, Stanislaus Co., Cal.
One-story brick auto sales and service building.
Owner—Thomas Rose.
Architect—H. G. Bissell, 421 E-Miner St., Stockton.

Plans Being Figured.

PLATS Cost, \$7590
SAN FRANCISCO. San Miguel and
 1st, Vernon Avea.
 Finish 8-room uncompleted residence
 for two 4-room flats.
 Owner—H. Taylor.
 Private plans.

Construction on this structure (8-room dwelling) was stopped when the frame work was completed when the owner decided to erect two flats. Bids are wanted from contractors to complete the structure for two flats, according to plans obtainable from Walter Dorn, attorney, 1105 Hearst Bldg., San Francisco, the owner's representative.

WATSONVILLE. Santa Cruz Co., Cal.—Construction will be started in the immediate future by the Standard Oil Co. on a super-service station on the site of the Roma Hotel, 189 Main St. Site is 70x90 feet.

GOVERNMENT WORK AND SUPPLIES

Plans Being Figured—Bids Close Aug. 5, 11 A. M.

WARD BLDGS. Cost, \$150,000
SAN FRANCISCO. Presidio of San Francisco.

Three reinforced concrete ward buildings at Letterman General Hospital.

Owner—United States Government.
 Architect—Constructing Quartermaster, Fort Mason, San Francisco.

This project will be known as Ward Nos. 5, 22 and 24. Will be two-story, each ward containing 68 beds, each equipped with radio communications. Tile roof, terrazzo and tile and rubber floors; tile wainscoting. Each structure will contain 22 basins, 10 water closets, 4 slop sinks, 2 bed pan sterilizers, battery of instruments and dressing sterilizers, surgery, stainless steel steam tables, sinks, tables, dish warmers and tray racks, nurses' call system, drinking fountain and fixtures.

Bids are being taken for all work including plumbing, heating and electric work. Plans obtainable from Constructing Quartermaster at Fort Mason on deposit of \$20, returnable.

SAN FRANCISCO.—Lyon Metal Products, Inc., Hunter-Dulin Building, 111 Sutter St., San Francisco, at \$6,664.25 submitted low bid to the Superintendent of Lighthouses, Customhouse, to furnish and install steel shelving for warehouse and shop building at Yerba Buena Island (Goat Island) in San Francisco. Award of contract has been recommended to Washington, D. C. Complete list of bids follows:

Lyon Metal Prod. Co., Inc.	\$6,664
Mfg. Equip. & Eng. Co.	6,698
Berger Mfg. Co.	6,891
Worley & Co.	7,650
N. W. Steel Products Co.	8,485
David Lupton Sons Co.	8,702
H. M. Schick Products Co.	8,939
General Fireproofing Co.	9,505

Bid of Remington-Rand Business Service at \$10,005 was not considered due to error in computing bid.

SAN FRANCISCO—Automatic Sprinkler Corp. of America, 519 California St., San Francisco, at \$1162 awarded contract by Constructing Quartermaster, Fort Mason, to furnish automatic sprinkler system at Film Vault Building, No. 27, at Letterman General Hospital, Presidio. Geo. Rehn, 1919 Mission St., San Francisco, at \$535.50 awarded contract for piping in connection therewith.

SACRAMENTO, Cal.—Until August 5, 3 P. M., under Circular Proposal

No. 31-9. Specifications No. 2051, bids will be received by U. S. Engineer Office, California Fruit Bldg., to construct and deliver about one survey boat. Further information obtainable from above.

SAN FRANCISCO—Until July 14, 10 A. M., under Schedule No. 928-21-3, bids will be received by Quartermaster Supply Officer, Fort Mason, to furnish and deliver:

One cast bronze or brass fog bell, highly polished, 22 inches dia., similar in pattern to "The Gray" of C. J. Hendry Co.

96 grease cups, screw feed brass, 1½ oz. capacity, ¼-in. iron pipe thread shank, 2-in. outside dia., equal to Fig. 668, size 1, Crane Company catalog.

Further information obtainable from above.

SACRAMENTO, Cal.—Until July 13, 3 P. M., under Order No. 2191-1657, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver Rio Vista, Solano County, or f. o. b. cars, bidder's plant, Oregon Pine Lumber, S4S No. 2, clear or better, with caulking seam ¼-in. by 2-in. on two edges, as follows:

3300 ft. (50 pcs.) 3"x12"x22".
4200 ft. (50 pcs.) 3"x12"x28".
5400 ft. (50 pcs.) 3"x12"x36".
7200 ft. (100 pcs.) 3"x8"x36".

SACRAMENTO, Cal.—Until July 13, 3 P. M., under Order No. 2193-1657, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver Rio Vista, Solano County, 72 gaskets, wire inserted rubber, 3½-in. I. D. by 4½-in. O. D. by ½-in. thick; 5 lbs. ammonia valve stem packing, ¼-in. Further information obtainable from above.

SACRAMENTO, Cal.—Until July 17, 3 P. M., under Order No. 2193-1657, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver Rio Vista, Solano County, water pitchers, dough scrapers, ladles, skimmers, butcher block brushes and other miscellaneous hotel ware. Further information obtainable from above.

SACRAMENTO, Cal.—Until July 17, 3 P. M., bids will be received by U. S. Engineer Office, California Fruit Bldg., under Order No. 2190-1657, to furnish and deliver Rio Vista, Solano County, hinge hasps, steel butts, barn door hangers and tubular track and brackets. Further information obtainable from above.

SAN FRANCISCO—Until July 15, 10 A. M., under Schedule No. 928-31-6, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver, aluminum steam table pots, 2 ice refrigerators, (solid oak) coffee and water urns, smoking stands; fibre furniture; miscellaneous kitchen equipment; electric vibrator; electric floor polisher; liquid floor wax; door plates; one Wilton rug. Further information obtainable from above.

SAN FRANCISCO—Until July 22, 10 A. M., under Schedule No. 928-31-4, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver 3400 lbs. wire nails; 6700 lbs. steel horse shoes; 4300 lbs. steel mule shoes; 168 soap shovels; 54 office clocks, etc. Further information obtainable from above.

SAN FRANCISCO—Until July 17, 2 P. M., bids will be received by U. S. Forest Service, Ferry Bldg., to furnish and deliver three gasoline shovels of 1 cubic yard capacity, crawler type. Specifications and further information obtainable from above office.

Contract Awarded.
PAINTING Cont. Price \$1345
SAN FRANCISCO. Main Post Office. Exterior and interior painting at Main Post Office.

Owner—United States Government.
 Architect—Supervising Architect, Treasury Dept., Washington, D. C.
 Contractor—Cramer Bros., 1941 15th St., San Francisco.

LIVERMORE, Alameda Co., Cal.—Following bids taken under advertisement by Superintendent of Construction, U. S. Veterans' Hospital, Palo Alto, to install one deep well pump, meter pipe and power lines in Veterans' Hospital at Livermore:

(1) pump; (2) pipe; (3) power lines.
Sterling Pump Co. (1) \$2,743.
F. L. Burr, (1) \$3,058; (2) \$6,983; (3) \$3,408.
Severin Electric Co. (2) \$7,695; (3) \$4,089.

Robert Garcia Well Co., (1) \$2,754; (2) \$5,772.71; (3) \$4,776.

Butte Electric Co., (1) \$3,129; (2) \$8,800; (3) \$3,141.

Byron Jackson Co., (1) \$2,875.

WASHINGTON, D. C.—(By Special Wire)—Safeway Electric Co., 8952 Ellis Ave., Culver City, Calif., submitted low bid to Bureau of Yards and Docks, Navy Department, Washington, D. C., to install fire alarm system, consisting of call boxes, accessory equipment and wiring, at Naval Ammunition Depot, Hawthorne, Nevada. Bid was: Gamewell, \$7,998, Autocall, \$5,343. Complete tabulation of bids will be published shortly.

HAWTHORNE, Nevada—As previously reported, Safeway Electric Co., Los Angeles, submitted low bid to Bureau of Yards and Docks, Navy Department, Washington, D. C., under Specification No. 6162, to install fire alarm system for Naval Ammunition Depot at Hawthorne. Following is a complete list of bids received:

Newberry Electric Corp., 726 S. Olive St., Los Angeles, Calif., \$5,928; auto-call equipment.

Safeway Electric Co., 8952 Ellis Ave., Los Angeles, Calif., \$7,998; Gamewell, alt. \$5,343, using autocall equipment.

Gamewell Co., Newton Upper Falls, Mass., \$10,255.50

Pacific Telephone Equipment Co., Financial Center Bldg., Los Angeles, Calif., \$10,741

American District Telegraph Co., 155 6th Ave., New York City, \$14,295.69.

KEYPORT, Wash.—Bids are being received by Bureau of Yards and Docks, Navy Department, Washington, D. C., for painting four steel radio towers at Naval Radio Station, Keyport, under Specification No. 6209. Plans obtainable from above office on deposit of \$10, returnable. (Date for opening bids not yet set).

Contract Awarded.
STABLES Cont. Price \$10,750
MONTEREY, Monterey Co., Cal.
 Two cavalry stables.

Owner—United States Government.
 Architect—Post Quartermaster, Presidio, Monterey.
 Contractor—H. Kohlwe, 140 Ortega St., San Francisco.

WASHINGTON, D. C.—Bids are being received by Bureau of Supplies and Accounts, Navy Department, Washington, D. C., to furnish and deliver miscellaneous supplies and equipment as noted in the following schedules, further information being available from the Navy Department Officer, 100 Harrison St., San Francisco:

Bids Open July 18

Puget Sound, 3 automatic telephones, sch. 900-3763.

Bids Open July 22

San Francisco, plate bending rolls, sch. 3712.

Western yards, hose fittings, sch. 3739.

Western yards, powdered aluminum sch. 3735.

Mare Island, 15,145 lbs. forged steel crankshaft, sch. 3732.

Puget Sound, 4 geared pneumatic hoists, 4000-lb. capacity, sch. 3710.

Puget Sound, telephone headsets and spare parts, sch. 3731.

San Francisco, 1 knocked-down elevated steel water tank, 100,000 gals. capacity, sch. 3727.

Western yards, electrically driven transfer units and spares, sch. 3737.

Mare Island, distributors, starting motors, generators and spare parts for motor-bus gasoline engines, sch. 3716.

P. O. B. works, 65 automobiles, sch. 3761.

Bids Open July 29

Mare Island, 3500 lbs. ethyl chloride, sch. 3744.

Sub-Contracts Awarded.

SHELL HOUSES Cost, \$160,000 MARE ISLAND, Calif. Mare Island Navy Yard.

Six one-story reinforced concrete shell houses and extension to railroad.

Owner—U. S. Government.

Architect—Bureau of Yards & Docks, Navy Dept., Washington, D. C.

Contractor—MacDonald & Kahn, Financial Center Bldg.

Glass—Tyre Bros. Co., 666 Townsend St., San Francisco.

Painting—Aristo Painting Co., 473 Bryant St., San Francisco.

Miscellaneous Iron Work—Fair Mfg. Co., 617 Bryant St., San Francisco.

Railroad Track Work—Warden and Forsyth.

As previously reported, excavation work awarded to D. McDonald, 1113 D St., Sacramento.

HALLS AND SOCIETY BUILDINGS

Concrete Contract Awarded.

MEMORIAL BLDG. Cost, \$65,000 EMERYVILLE, Alameda Co., Calif.

Salern St. bet. 43rd and 45th Sts.

Two-story reinforced concrete Veterans' Memorial Building.

Owner—County of Alameda.

Architect—H. H. Meyers, Kohl Bldg., San Francisco.

Contractor—E. T. Leiter & Sons, 811 37th St., Oakland.

Concrete—J. H. Fitzmaurice, 354 Hobart St., Oakland.

Excavation work has been started.

Sub-Bids Being Taken.

ALTERATIONS Cost, approx. \$50,000 SAN FRANCISCO, 1142 Van Ness Ave.

Alterations to club.

Owner—Concordia Club (Harry Hlip, president).

Architect—Hyman and Appleton, 68 Post St.

Contractor—Barrett & Hlip, 918 Harrison St.

Work consists mostly of interior work, i. e., new furnishings, furniture, etc. Construction will be started immediately.

Site Selected—Plans To Be Prepared.

MEMORIAL BLDG. Cost, \$65,000 HAYWARD, Alameda Co., Cal. (Kolze Property) Main Street.

Veterans' Memorial Building.

Owner—County of Alameda.

Architect—Henry H. Myers, Kohl Bldg., San Francisco.

Plans Being Figured—Bids Close July 15, 8 P. M.

CLUB BLDG. Cost, \$30,000 MOUNTAIN VIEW, Santa Clara Co., Calif.

Two-story reinforced concrete club building.

Owner—American Legion, Mt. View.

Architect—Alex. A. Cantin, 544 Market St., San Francisco.

MONTEREY, Monterey Co., Cal.—Monterey Peninsula Post No. 41,

American Legion, has petitioned county supervisors to erect American Legion Memorial Building in Monterey as "previously promised."

A 40-acre tract in the Romie Jacks tract has already been purchased by the county for such a structure.

Sub-Contracts Awarded.

BUILDING Cost, approx. \$230,000 OAKLAND, Alameda Co., Calif. 15th and Grove Sts.

Six-story and basement class C steel frame and concrete building.

Owner—Salvation Army.

Architect—Douglas Stone, Gt. Western Power Bldg., Oakland.

Contractor—Jacobs and Pattiani, 337 17th St., Oakland.

Structural Steel—Pacific Coast Eng. Co., foot of 14th St., Oakland.

Electric—Alta Electric Co., Inc., 938 Howard St., San Francisco.

Reinforcing Steel—McGrath Co., 354 Hobart St., Oakland.

Mill Work—Lannon Bros., Fifth and Magnolia Sts., Oakland.

Finish Hardware—Maxwell Hardware Co., 1320 Washington St., Oakland.

As previously reported, painting contract awarded to A. A. Zelinsky, 4420 California St., San Francisco; glass to W. P. Fuller Co., 301 Mission St., San Francisco; excavation to Ariss-Knapp Co., 961 41st St., Oakland; plumbing and heating to Scott Co., 113 10th St., Oakland.

Plans Being Figured—Bids Close July 16, 3 P. M.

CLUBHOUSE Cost, \$—PALO ALTO, Santa Clara Co., Cal.

Stanford University Campus.

One-story golf clubhouse.

Owner—Stanford University.

Architect—John Bakewell and Arthur Brown, Jr., associated, 251 Kearny St., San Francisco.

Following is a list of prospective bidders:

General Contract

Wells P. Goodenough, 310 University Ave., Palo Alto.

Grant Miner, Jr., 180 University Ave. Palo Alto.

George Wagner, 181 S Park St., San Francisco.

Meese & Briggs, 1425 Broadway, Burlingame.

Plumbing

Standard Plumbing Co., 250 77th St., Richmond.

Christenson & Anderson, 455 Florence St., Palo Alto.

H. Parks & Brothers.

Turner & Co., 329 Tehama St., San Francisco.

O'Meara & Stewart, 218 Clara St., San Francisco.

Heating

Harry Parkerson, 1257 Paloma Ave., Burlingame.

W. Sterling, 1125 King St., Redwood City.

Turner & Co., 329 Tehama St., San Francisco.

O'Meara & Stewart, 218 Clara St., San Francisco.

Electric

Roy Butcher, San Jose.

Turner & Co., 329 Tehama St., San Francisco.

Force & Christensen, Palo Alto.

M. Ryan, 231 Main St., Redwood City

SAN JOSE, Santa Clara Co., Cal.—I. O. O. F. Lodge of San Jose has temporarily abandoned proposal to erect a modern lodge building to replace the present quarters at Third and Santa Clara Sts.

Sub-Contracts Awarded.

ALTERATIONS Cost, approx. \$12,000 OAKLAND, Alameda Co., Calif. 12th and Clay Sts.

Remodel present club building.

Owner—Athletic Club.

Architect—John J. Donovan, Tapscott Bldg., Oakland.

Contractor—Dyer Const. Co. Ray Bldg. Oakland.

Work involves changes in the steam heating system and enlargement of steam and hot room facilities.

Lumber and Mill Work—Sunset Lumber Co., 400 High St., Oakland.

Cork Insulation—Cork Insulation Co., 354 Pine St., San Francisco.

Tile—Superior Tile & Products Co., 3743 Broadway, Oakland.

Plastering—Spaan Bros., 3985 Whittie St., Oakland.

Glass—W. P. Fuller & Co., 301 Mission St., San Francisco.

Painting—Carl Friberg, 1410 Madison St., Oakland.

Hollow Metal Doors—Superior Metal Products Co., 4400 Market Street, Oakland.

Plumbing—M. Finzel, 1517 Hopkins St., Oakland.

Heating and Ventilating—Carl Doell, 167 21st St., Oakland.

Marble—Ray Cook Marble Co., foot of Powell St., Oakland.

HOSPITALS

To Be Done By Days Work.

COTTAGES Cost, \$36,000 SACRAMENTO, Sacramento Co., Cal.

Sutterville Road (Sacramento Orphanage and Children's Home).

Two two-story frame cottages and one-story brick laundry, 28x60 ft. and boiler room.

Owner—City of Sacramento.

Architect—Dean & Dean, California State Life Bldg., Sacramento.

Cottages will contain dining room, kitchen, porch, laundry, bedroom, sewing room and living room on the first floor and two dormitories, four dressing rooms, two bathrooms and quarters for the house mother on the second floor.

Contracts Awarded.

HOSPITAL Cost, \$210,434 DOWNEY, Los Angeles Co., Cal.

County Farm.

Two-story reinforced concrete hospital.

Owner—County of Los Angeles.

Architect—Karl Muck, County Architect, Court House, Los Angeles.

Contractor—Sarver & Zoss, 727 W. Seventh St., Los Angeles.

Plumbing, Heating and Ventilating—Pacific Pipe & Supply Co., 1002 Santa Fe Ave., Los Angeles.

Electric Fixtures—Newberry Electric Corp., 726 S Olive St., Los Angeles.

Electric Wiring—American Electric Constr. Co., 757 E. Ninth St., Los Angeles.

Metal Equipment—Carl G. Pirman Co., 1623 S. Hill St., Los Angeles.

Kitchen Equipment—Cass Mfg. Co., 208 S. Spring St., Los Angeles.

Surgery Equipment—R. L. Scherer Co., 736 S. Flower St., Los Angeles

OAKLAND, Alameda Co., Cal.—Bids will be asked shortly by county supervisors for alterations to county detention home including installation of two new doors, replace two fire escapes and other minor alterations; estimated cost \$4800.

Sub-Contracts Awarded.
MOTHER HOUSE Cost, \$95,000
MISSION SAN JOSE, Alameda Co.
Three-story reinforced concrete Span-
ish type Mother House (stucco
color; tile roof; main facade 135
feet long).

Owner—Monsieur Religions of the Order
of St. Dominic.
Architect—Arnold Constable, 580 Mar-
ket St., San Francisco.

Structural Engineer—W. Adrian, 417
Market St., San Francisco.
Mechanical Engineer—Coddington Co.,
222 Kearny St., San Francisco.

Contractor—S. Rasori, 74 New Mont-
gomery St., San Francisco.

Lumber—P. C. Hansen, Niles, Calif.
Reinforcing Steel—Gunn, Carle & Co.,
444 Market St.

Cement—Pacific Portland Cement Co.,
111 Sutter St., San Francisco.

Steel Forms—Steel-Form Contracting
Co., Monadnock Bldg., San Fran-
cisco.

Plumbing—J. E. Fazio, 402 Castro St.,
Oakland.

Heating—W. A. Aschen, 2611 Coolidge
St., Oakland.

Electric Work—T. E. Witterly.

Sheet Metal—Western Furnace & Cor-
nice Works.

Plastering and Cast Stone—Herman
Bosch, 445 Fulton St., San Fran-
cisco, \$18,600.

Low Bidder.
LABORATORY Cost, \$106,785
PHOENIX, Arizona. McDowell Road
and Tenth St.
U-shaped masonry medical research
laboratory (200x70-ft.).
Owner—William C. Grunow.
Architect—Fitzhugh and Byron, Home
Builders Bldg., Phoenix.

Low Bidder—T. L. Weatherford, Phoe-
nix.
Plumbing—D. S. Horrall, Phoenix, \$6,-
563.

Plans Being Figured—Bids Close July
14, F. M.

HOSPITAL BEDS Cost, \$—
MODESTO, Stanislaus Co., Cal.
Furnish and install hospital beds and
attachments for Unit No. 2, Ward
Building at county hospital.
Owner—County of Stanislaus, C. C.
Eastin, county clerk, Modesto.

Architects—R. G. deLappe and Vladi-
mir Ogilov, 1710 Franklin St., Oak-
land.

Specifications on file in office of the
clerk and obtainable from architects.

Bids Opened.
ADDITION Cost, \$—
REDWOOD CITY, San Mateo Co., Cal.

County Hospital grounds at Beres-
ford.

Three-story reinforced concrete wing
addition to county hospital.
Owner—County of San Mateo, Eliza-
beth M. Kneese, county clerk.
Architect—Will H. Toepke, Cal Bldg.,
San Francisco.

General Contract

(Includes such work as reinforced
concrete, carpenter work, glazing,
lathing, roofing, hardware, mill work,
sheet metal work, etc. Alternate A
covers deduction for Tiletex floors).

Sorensen & Haggmark, 2652 Harri-
son St., San Francisco, \$83,900; \$1458.
Spivock & Spivock, San Francisco,
\$86,700; \$2400.

J. Harold Johnson, San Francisco,
\$88,987; \$1700.

Anderson & Ringrose, San Francisco
\$89,247; \$2000.

Young & Horstmeier, San Francisco
\$89,780; \$2407.

H. H. Larsen, San Francisco, \$90,-
733; \$2000.

C. C. W. Haun, San Francisco, \$91,-
163; \$2700.

Vogt & Davidson, San Francisco,
\$91,847; \$1700.

J. W. Cobby & Son, San Francisco,
\$92,400; \$2000.

Jacks & Irvine, San Francisco, \$94,-
531; \$1750.

H. L. Peterson, San Francisco, \$95,-
481; \$1730.

Geo. W. Williams, Burlingame, \$96,-
978; \$2350.

R. C. Stuckle, South San Francisco,
\$98,172; \$2452.

F. J. Reilly, San Francisco, \$98,743;
\$2900.

L. J. Dloguard, San Mateo, \$98,800;
\$1700.

Plumbing, Sewering and Gas Fitting.
Scott Co., 243 Minna St., S. F., \$19,767

F. J. Klimm Co., Inc., S. F., 19,971

H. R. Park, Burlingame, 20,617

Morrison & Blair, San Mateo, 20,712

Dowd & Welsh, San Francisco, 21,535

J. J. McLeod, San Francisco, 22,237

W. L. Hickey & Son, Burlingame, 22,432

W. H. Picard, Oakland, 23,843

Heating and Ventilating
(Alternate bid is deduction if hot
water heating is changed to steam).

Fraak J. Klimm Co., Inc., 456 Ellis
St., San Francisco, \$13,875; \$1800.

J. A. Nelson, San Francisco, \$13,-
975; \$4000.

San Jose Heating & Ventilating Co.,
San Jose, \$14,244; \$1600.

Morrison & Blair, San Mateo, \$14,-
832; \$1411.

W. H. Picard, Oakland, \$14,964; \$3,-
507.

H. R. Park, Burlingame, \$16,502; \$2,-
900.

Electric Wiring, Conduit Work, Etc.
Superior Electric Co., Phelan
Bldg., San Francisco, \$10,143

Atlas Elec. Co., San Mateo, 10,199

Roberts Mfg. Co., San Francisco 10,730

Dowd-Seid Elec. Co., S. F., 11,250

Atlas Elec. & Eng. Co., S. F., 11,365

Electric Service Co., 11,611

Painting, Varnishing, Etc.
Raphael Co., 270 Tehama Street,
San Francisco, \$3,895

D. Zelinsky & Sons, S. F., 4,030

J. F. Killelea, 4,675

C. S. Hower, 4,985

J. Chaban, San Francisco, 5,500

Elevators
(a) Passenger; (b) Dumbwaiters).

Pacific Elevator and Equipment Co.,
45 Rausch St., San Francisco, (a) \$5,-
130; (b) \$1,400.

Spencer Elevator Co., San Francisco
(a) \$5975; (b) \$1140.

Otis Elevator Co., San Francisco, (a)
\$6340; (b) \$1490.

Atlas Elevator Co., San Francisco,
\$7490 (combined bid).

All bids taken under advisement un-
til July 14.

Preparing Working Drawings
ADDITIONS Cost, \$160,000

SAN FRANCISCO, Potrero Ave., bet.
20th and 23rd Sts. (San Francisco
Hospital).

Class A additions on roof of four
ward buildings (brick walls, tile
roof).

Owner—City and County of San
Francisco.

Architect—Alfred I. Coffey and Martin
J. Rist, Associated, Phelan Bldg.,
San Francisco.

Plans will be ready for figures in
one month.

SAN FRANCISCO—See "Govern-
ment Work and Supplies," this issue.

Bids wanted by constructing Quar-
termaster, Fort Mason, to erect three
reinforced concrete ward buildings at
Letterman General Hospital, San
Francisco Presidio.

HOTELS

Low Bidder.

HOTEL Cost, \$150,000
RENO, Nevada. 151 Sierra St.

Four-story fireproof hotel and stores
(99 rooms with private baths).

Owner—Jarengo Bros., Reno.

Architect—F. J. DeLongchamps, Ga-
zette Bldg., Reno.

Low Bidder—K. E. Parker, 135 South

Park, San Francisco, \$165,000.

Next lowest bid was submitted by
Lindgren & Swinerton, Inc., San Fran-
cisco. Contract will be awarded with-
in a few days.

Plans Completed.

HOTEL Cost, \$—
PALM SPRINGS, Los Angeles Co.

Group of hotel buildings.
Owner—Smoke Tree Forest Co.

Architect—Garrett Van Pelt, 51 S-
Euclid St., Pasadena.

The group will contain a hotel
building that will have two dining
rooms, kitchen, lobby and store
rooms, 15 cottages to accommodate
about 100 guests, two buildings for
servants' quarters and a 20-car gar-
age.

Bids Wanted On All Work Except
Excavation and Concrete.

ALTERATIONS Cost, \$100,000
SONORA, Tuolumne Co., Cal.

Alterations and additions to present
three-story brick hotel (new lob-
by, coffee shop, banquet rooms,
elevators, etc.)

Owner—Erick and Chas. Seterstrom,
Sonora.

Architect—Davis-Pearce Co., Grant
and Weber Sts., Stockton.

Wrecking has been started.

Plans Being Figured—Bids Close
July 29.

HOTEL Cost, \$100,000
BLUE LAKE, Lake Co., Cal. 250-

acre tract.

Three-story and frame stucco hotel
(224x126 feet).

Owner—Blue Lake Hotel and Resort
Corp., Harry W. Kemp, President

Architect—Chas. Strothoff, 2274 15th
St., San Francisco.

Will contain 48 rooms, all of which
will have private baths. Steam heat-
ing; glass enclosed porches. Base-
ment will provide dressing rooms for
bathers, a barber shop and five store
rooms.

ICE AND COLD STORAGE PLANTS

Plans Being Figured.

ADDITION Cost, \$70,000
WATSONVILLE, Santa Cruz Co., Cal.

Beach Road.

Reinforced concrete addition to cold
storage plant (75x100-ft.)

Owner—Apple Growers Cold Storage
Co., Watsonville.

Architect—Gay Eng. Co., 2650 Santa
Fe Ave., Los Angeles.

POWER PLANTS

UKIAH, Mendocino Co., Cal.—
Until July 16, 7:30 P. M., bids will

be received by F. C. Handy, City
Clerk, to construct an electric line

from intersection of Orchard Ave.
with River St. to municipal pumping

plant on the Russian River. Certified
check 10% payable to City Council

required with bid. Plans on file in
office of clerk.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

OROVILLE, Butte Co., Cal.—Until
August 4, bids will be received by the

city council for offers to furnish site
and erect a firehouse for lease to the

city to house three fire engines,
depth of building to be not less than

75 ft. and of sufficient width to per-
mit three engines abreast. Plans and

specifications for the structure are
to be furnished by the success-
ful bidder.

Contract Awarded.

ALTERATIONS Cont. Price, \$2958
BAKERSFIELD, Kern Co., Cal.
 County Court House.
 Alterations and additions to Court House.
 Owner—County of Kern, F. E. Smith, Clerk, Bakersfield.
 Architect—E. W. J. Symmes, Habersfelde Bldg., Bakersfield.
 Contractor—Currie & Duglar, Kern County Land Bldg., Bakersfield.
 Following is a complete list of bids received:
 Currie & Duglar, Bakersfield.....\$2958
 Clark Gramling, Bakersfield.....3285
 L. H. Moon, Bakersfield.....3450
 Wm. Elssier, Bakersfield.....3600
 Adolph Hansen, Bakersfield.....3700

Informal Bids Opened.

SHEET METAL WORK Cost, \$—
FOLSCM, Sacramento Co., Cal. State Penitentiary.
 Sheet metal work.
 Owner—State of California.
 Architect—State Department of Public Works, Division of Architecture, Public Works Bldg., Sacramento.
 Informal bids received were:
 Frank Z. Ahl, 1615 21st Street, Sacramento.....\$5,994
 McLaughlin Sheet Metal Co., San Francisco.....6,325
 Latourette-Fical Co., Sacto.....6,837
 Walter N. Gunthly.....7,418

RESIDENCE

Contract Awarded.
RESIDENCE Cost, \$12,000
SAN FRANCISCO, Judah St. and 12th Avenue.
 Two-story and basement frame and stucco residence.
 Owner—A. Cunco, 648 Judah St.
 Architect—None.
 Contractor—J. E. McCarthy, 1342 Funston Ave.

Sub-Contracts Awarded.

RESIDENCE Cost, \$25,000
SAN FRANCISCO, Broadway near Scott Street.
 Two-story frame and stucco residence (14 rooms).
 Owner—Julian Thorne.
 Architect—Farr & Ward, 68 Post St.
 Contractor—Taylor & Jackson, 290 Tehama St.
Lumber—Loop Lumber Co., foot 16th St., Central East Oakland.
Grading—Sibley Grading & Teaming Co., 135 Landers St.
Mill Work—J. H. Kruse Lumber Co., 23th and Shotwell Sts.
 As previously reported, plumbing awarded to J. J. McLeod, 1246 Golden Gate Ave. Other awards will be made shortly.

Plans Being Figured.

RESIDENCES Cost, \$6,000-\$15,000
CLEAR LAKE, Lake Co., Cal. Buckingham Park.
 Ten 1- and 2-story frame and stucco residences (5- 8- and 9-rooms).
 Owner—Withheld.
 Architect—Chas. Strothoff, 2274 15th St., San Francisco.

Bids Opened.

RESIDENCE Cost, \$7000
SACRAMENTO, Sacramento Co., Cal. St. Francis Oaks.
 One-story frame and stucco residence (5 rooms).
 Owner—L. G. Lentz, 2548 41st Street, Sacramento.
 Architect—Dean and Dean, California State Life Bldg., Sacramento.
 Low Bidder—C. J. Hopkinson, 1810 28th St., Sacramento.
 Following is a complete list of bids:
 C. H. Hopkinson, Sacramento.....\$7,372
 C. N. La Due, Sacramento.....7,775
 F. Engberg, Sacramento.....7,797
 G. E. Hook, Sacramento.....8,200
 Bids held under advisement.

Sub-Bids Being Taken.

RESIDENCE Cost, \$12,000
SAN FRANCISCO, St. Francis Wood (exact location withheld).
 One-story frame and stucco residence (7 rooms).
 Owner and Builder—Buildinf Securities Corp., Mills Bldg.
 Architect—Irvine & Ebbets, Call Bldg.
 Plans Being Figured—Bids Close July 16th.
RESIDENCE Cost, \$25,000
MONTREY, Monterey Co., Cal.
 Two-story and basement frame and stucco residence.
 Owner—Arthur Metz.
 Architect—W. O. Raiguel, Hotel Del Monte, Monterey.

Contract Awarded.

ALTERATIONS Cost, \$12,000
BERKELEY, Alameda Co., Cal. 2327 Warren St.
 Alterations to two-story frame sorority house.
 Owner—Chapter Theta Upsilon, 2327 Warren St., Berkeley.
 Architect—Frank W. Dakin, 526 Market St., San Francisco.
 Contractor—George Moren, 1040 Fulton St., San Francisco.

Contract Awarded.

RESIDENCE Cost, \$8500
SAN FRANCISCO, Noe Street near Twenty-fourth Street.
 Two-story and basement frame and stucco residence (8 rooms).
 Owner—P. C. Fisher, % Edwards & Schary, architects, 605 Market St., San Francisco.
 Plans by Owner.
 Contractor—A. R. Larsen, 2595 Mission St., San Francisco.

Plans Being Prepared.

RESIDENCE Cost, \$—
ATHERTON, San Mateo Co., Cal.
 Two-story residence.
 Owner—Clarence Walter, 562 Mission St., San Francisco.
 Architect—H. H. Gutterson, 526 Powell St., San Francisco.

Sub-Bids Being Taken.

RESIDENCE Cost, \$10,500
SAN FRANCISCO, Westgate Dr. (Mt. Davidson Manor).
 One-story frame and stucco residence (7 rooms, 2 baths).
 Owner and Builder—G. W. Morris, 730 Athens St.
 Plans by D. E. Jackle, Call Bldg.

Plans Being Figured—Bids Close July 14th

RESIDENCE Cost, \$15,000
BERKLEY, Alameda Co., Cal. Euclid Ave.
 Two-story frame and stucco residence.
 Owner—E. J. Foster.
 Architect—E. L. Snyder, 2101 Addison St., Berkeley.

Sub-Contracts Awarded.

RESIDENCE Cost, \$30,000
SAN FRANCISCO, 18th Ave. near Vicente St.
 Two-story frame and stucco parochial residence for St. Cecilia's Parish.
 Owner—Roman Catholic Archbishop, 1109 Franklin St.
 Architect—H. A. Minton, Bank of Italy Bldg., Eddy and Powell Sts.
 Contractor—S. Rasori, Call Bldg.
Foundations—Golden Gate Atlas Materials Co., 16th and Harrison Sts.
Reinforcing Steel—Gunn, Carle & Co., 444 Market St.
Lumber—Sudden Lumber Co., Evans and Quint St.
Plastering—Herman Bosch, 449 Fulton Street.
Electrical Work—Superior Electric Co., Phelan Bldg.
Plumbing and Heating—Herman Law, 809, 465 Tehama St.
Glass—Tye Bros., 666 Townsend St.

Owner Taking Sub-Bids.

RESIDENCE Cost, \$25,000
ROSS, Marin Co., Cal.
 Two-story and basement frame, brick and stone residence.
 Owner and Builder—R. Fasken and Frank Howard Allen, 232 Main St., San Anselmo.
 Architect—Ashley & Evers, 525 Market St., San Francisco.

To Be Done By Day's Work By Owner

RESIDENCE Cost, \$12,000
SACRAMENTO, Sacramento Co., Cal. 2101 9th Ave.
 Two-story frame and stucco residence (8 rooms).
 Owner and Builder—W. B. Phillips, 4390 T St., Sacramento.
 Plans by Owner.

Bids Opened.

BUNGALOWS Cost, \$18,000
MONTREY, Monterey Co., Cal. El Dorado and Monraz Sts.
 One-story frame and stucco bungalow court.
 Owner—Mrs. Haskell.
 Architect—W. W. Hastings, Tyler St., Monterey.
 Low Bidder—Newman and Halsted, Monterey, \$10,400.

Second lowest bid was submitted by Ernest Sunberg, Monterey, at \$12,510. An error was made by low bidders and contract will probably be awarded to second man.

Plans Being Figured—Bids Close July 23, 3 P. M.

RESIDENCE Cost, \$60,000
ROSS, MARIN Co., Cal.
 Two-story brick residence.
 Owner—Norman Livermore, 85 2nd St., San Francisco.
 Architect—Bakewell and Weihe, 251 Kearny St., San Francisco.
 Engineer—Atkins and Parker, Hobart Bldg., San Francisco.
 Following is a list of the prospective bidders:
 J. Davison, Oakland.
 A. F. Mattock, 210 Clara St., San Francisco.
 Isaac Penny, 690 Market St., San Francisco.
 Young & Horstmeier, 461 Market St., San Francisco.
 A. Collman, 666 Mission St., S. F.

Contract Awarded.

BUNGALOWS Cost, \$18,000
MONTREY, Monterey Co., Cal. El Dorado and Monraz Sts.
 One-story frame and stucco bungalow court.
 Owner—Mrs. Haskell.
 Architect—W. W. Hastings, Pryor Bldg., Monterey.
 Contractor—Ernest Sunberg, Monterey.

Owner Taking Bids.

RESIDENCE Cost, \$9000
STOCKTON, San Joaquin Co., Cal. Magnolia and Argonaut Sts.
 One-story frame and stucco residence.
 Owner—R. L. Quisenberry, 1004 N. Van Beuran St., Stockton.
 Architect—J. U. Cloudsley, Exchange Bldg., Stockton.

Plans Being Prepared.

RESIDENCE Cost, \$8000
PALO ALTO, Santa Clara Co., Cal.
 One-story and basement frame and stucco residence.
 Owner—H. J. Cornish, Palo Alto.
 Plans by Howard L. Gray, 1919 Emerson St., Palo Alto.

Plans To Be Prepared.

RESIDENCE Cost, \$25,000
BERKELEY, Alameda Co., Cal. Claremont Pines.
 Two-story frame and stucco residence and garage.
 Owner—Withheld.
 Architect—Masten and Hurd, Shreve Bldg., San Francisco.

Sub-Bids Being Taken.
RESIDENCE Cost, \$9000
PALO ALTO, Santa Clara Co., Cal.
One-story frame and stucco residence
(7 rooms).
Owner—George Miller.
Plans by Howard L. Gray, 1919 Em-
erson St., Palo Alto.
Contractor—Howard L. Gray, 1919
Emerson St., Palo Alto.

Contract Awarded.
RESIDENCE Cost, \$7000
SACRAMENTO, Sacramento Co., Cal.
St. Francis Oaks
One-story frame and stucco residence
(5 rooms).
Owner—L. G. Lentz, 2548 41st Street,
Sacramento.
Architect—Dean & Dean, California
State Life Bldg., Sacramento.
Contractor—C. J. Hopkinson, 1810
28th Street, Sacramento.

Contract Awarded.
RESIDENCE Cost, \$16,000
CONTRA COSTA CO., Cal. Northwood
Ave. (outside Berkeley).
Two-story and basement frame and
stucco residence (8 rooms and 3
baths).
Owner—Mrs. Virginia Mahl, Oakland.
Plans by A. L. Herberger, 3281 Lake-
shore Ave., Oakland.
Contractor—Irwin Reimers, 745 Wala
Vieta, Oakland.

Plans Being Figured—Bids Close July
15th.
RESIDENCE Cost, \$6500
PALO ALTO, Santa Clara Co., Cal.
One-story frame and stucco residence
(5 rooms).
Owner—R. Tinney.
Plans by E. Reichel, 303 University
Ave., Palo Alto.

Plans Being Figured.
RESIDENCE Cost, \$10,000
SAN FRANCISCO, 21st and Sanchez
Streets.
One and one-half-story frame and stuc-
co residence (7 rooms).
Owner—James Rolph III, 2222 Leaven-
worth St.
Plans by Russell B. Coleman, 1404
Broadway, Burlingame.

Owner Taking Bids.
RESIDENCE Cost, \$4500
RICHMOND, Contra Costa Co., Cal.
One-story frame and stucco residence
and garage (5 rooms).
Owner—Builder—Herbert Green, 819
Ramona Ave., Albany.
Plans by L. F. Hyde, 372 Hanover St.,
Oakland.

Contract Awarded.
RESIDENCE Cost, \$—
SAN JOSE, Santa Clara Co., Cal.
One-story frame and stucco residence
Owner—O. A. Harlan.
Architect—Wolfe and Higgins, Realty
Bldg., San Jose.
Contractor—Frank Neves, 891 Harrison
St., San Jose.
Complete list of bids follows:
Frank Neves, San Jose.....\$18,530
Howard Waltz, 132 Balbach,
San Jose.....13,600
M. W. Reese, 1210 Minnesota St.,
San Jose.....13,745
Chas. Keesling.....18,385
J. C. Thorpe.....19,423
T. H. Painter.....19,573
Smith & Sides.....19,765
Coreallo & Cliff.....20,734
Haskins Bros.....29,107

Preparing Plans.
RESIDENCE Cost, \$3500
MONTEREY, Monterey Co., Cal. New
Monterey.
One-story frame and stucco residence
and garage (5 rooms).
Owner—F. A. Mathewson.
Architect—W. W. Hastings, Pryor
Bldg., Monterey.

Bids Opened—Under Advertisment.
RESIDENCE Cost, \$—
PALO ALTO, Santa Clara Co., Cal.
Two-story frame and stucco residence
(9 rooms and 4 baths).
Owner—Andrew Field.
Architect—Birge M. Clark, 310 Uni-
versity Ave., Palo Alto.
Complete list of bids follows:
Wells P. Goodenough, 310 Uni-
versity Ave., Palo Alto.....\$20,498
Wm. Short, 2121 Waverly, Palo
Alto.....21,087
The Minton Co., Mt. View.....21,700
R. C. Knight.....22,190
P. C. Stolte.....22,490
A. F. and C. W. Mattock, 210
Clara St., San Francisco.....23,134
E. J. Schmaline.....23,223
Meese & Briggs, 1425 Broadway
Burlingame.....24,624

SCHOOLS

CRESCENT CITY, Del Norte Co.,
Cal.—Following contracts awarded by
High School Trustees for materials
and equipment for new manual arts
building at high school:
Furniture—W. W. McLaren, Hobbs,
Wall & Co., and H. S. Crocker & Co.
Tools and Machinery—Howe & Ham-
ilton, Hobbs, Wall & Co., Harron,
Richard & McCone, and Waterhouse,
Wenatchee Co.
Stationery and Supplies—Howe and
Hamilton, and Hobbs, Wall & Co.
Fuel Oil—Union Oil Co.
Wood—Edwin C. Cadra.

Contract Awarded.
ADDITION Cost, \$4072
THORNTON, San Joaquin Co., Cal.
Brick addition to grammar school (4
classrooms).
Owner—New Hope Grammar School
District.
Architect—W. J. Wright, Mail Bldg.,
Stockton.
Contractor—Frank P. Guyon, 1211 E
Main St., Stockton.

All Bids For General Contract In—To
Be Awarded In About One Week
SCHOOL Cost, 1st unit, \$700,000
SAN FRANCISCO. Aptos and West-
gate Aves.
Class A Aptos Junior High School (ac-
commodate approx. 1500 students)
Owner—City & County of San Fran-
cisco.
Architect—Shea and Shea, 454 Mont-
gomery St.
As previously reported general work
awarded to MacDonald & Kahn, Finan-
cial Center Bldg., \$529,500; electric
work by J. E. Ireland, 827,332; mechan-
ical work by P. W. Snook, 596 Clay St.,
plumbing and gas fitting to Scott Co.,
213 Minna St., \$34,987.

Plans Being Figured.
ALTERATIONS Cost, \$10,000
NORTH SACRAMENTO, Sacramento
Co., Cal.
Alterations and additions to present
grammar school.
Owner—North Sacramento School
District.
Architect—Chas. F. Dean, California
State Life Bldg., Sacramento.

Working Drawings Being Prepared.
ADDITION Cost, \$—
MONTEREY, Monterey Co., Cal.
Shop addition, tennis courts, grading
girls' playground at high school.
Owner—Monterey High School Dist.
Architect—Swartz & Ryland, Spazier
Bldg., Monterey and Brix Bldg.,
Fresno.

This work will comprise the first
unit of improvements to be undertaken
under the recently authorized bond
issue.
DANVILLE, Contra Costa Co., Cal.
—H. E. Pynn, Danville, at \$3452
awarded contract by Danville Gram-
mar School District, to erect 1 class-

room addition to present school and
enlarge dressing rooms. Other bids
were: George Scott, Walnut Creek,
\$3455; E. A. Root, Danville, \$3749;
George Bilcon, Martinez \$3982.

Plans Being Figured—Bids Close July
17, 730 P. M.
ADDITION Cost, \$—
RENO, Nevada. Evans Ave.
Two-classroom addition to Orvils
School.
Owner—Ireno School District No. 10,
Theo. W. Clark, clerk.
Architect—George A. Ferris and Son,
Cladianos Bldg., Reno.
Certified check 5% required with bid.
Plans and specifications obtainable
from the architects.

Plans Being Figured—Bids Close July
23, 8 P. M.
BUILDING Cost, \$—
TRACY, San Joaquin Co., Cal.
Concrete and brick manual training
building.
Owner—Tracy Grammar School Dist.,
Thos. Garner, clerk.
Architect—W. J. Wright, Mail Bldg.,
Stockton.
Certified check for not less than \$300
required with bid, to be made payable
to clerk. Plans are obtainable from
architect.

SAN JOSE, Santa Clara Co., Cal.—
Board of Education has accepted
offer of Fred E. Turner Co., Stockton,
for four carloads of slate black-
board at 44¢ cents per square foot.

SAN JOSE, Santa Clara Co., Cal.—
Otto Helwig, San Jose, at \$2359
awarded contract by Board of Educa-
tion for architectural metal work for
Peter A. Burnett Junior High School
at Second and Rosa Sts.

Plans Being Figured—Bids Close July
24, 730 P. M.
HEATING PLANT, ETC. Cost, \$—
CENTERVILLE, Alameda Co., Cal.
Furnish and install steel lockers,
steam heating plant, electric light
fixtures and steel shower stalls in
high school.
Owner—Centerville High School Dist.
Architect—Birge M. Clark, 310 Uni-
versity Ave., Palo Alto.
Plans and specifications obtainable
from the architect and on file in the
office of the clerk of the district at
Centerville.

Bids Opened—Under Advertisment.
SCHOOLS Cost, \$—
BERKELEY, Alameda Co., Cal. Ban-
croft Way.
Two 1-story frame temporary schools
(9 classrooms, science and draw-
ing room).
Owner—Berkeley Board of Education.
Architect—Hardman & Russ, Berkeley
Bank Bldg., Berkeley
Complete list of bids follows:
Chas. McCullough, 1631 Berk-
eley Way, Berkeley.....\$14,990
A. Holvake, Hayward.....15,325
Herbert Henderson, Oakland.....15,589
Cisero and Mally.....15,912
Conner & Conner, Oakland.....16,300
F. Appelle.....16,330
Vezev & Sons, Oakland.....16,586
Fred Westerlund, Oakland.....16,770
J. E. Fishon, Oakland.....17,314
Emil Pearson, Berkeley.....18,066

Contracts Awarded.
ADDITION Cost, \$14,000
BAKERSFIELD, Kern Co., Cal.
Arvin School.
Class C brick addition
Owner—Arvin School District.
Architect—Edwin J. Symers, Habers-
felder Bldg., Bakersfield.
Contractor—W. A. Croft, 1605 Brund-
age Lane, Bakersfield.
Plumbing—Gundlach Plumbing Co.,
2324 Chester Ave., Bakersfield.

Bids Opened—Under Advertisment.
ANNEX TO SCHOOL. Cost, \$——
BERKLEY, Alameda Co., Cal. California School For Blind.
 Two-story reinforced concrete annex to school, tile partitions, wood and tile roof (cover area of 10,000 sq. ft.) and annex to residence.
 Owner—State of California.
 Architect—George B. McDougall, Staie Architect, Public Works Building, Sacramento.
 Following is a complete list of bids:

General Contract
Sorensen and Hagmark, 2652
 Harrison St., San Francisco \$45,700
 J. B. Bishop, Oakland..... 47,600
 E. T. Jesure, Oakland..... 49,820
 J. S. Hannah, San Francisco..... 49,968
 A. Fred Anderson, Oakland..... 50,142
 J. J. Gredem, Oakland..... 51,200
 E. T. Leiter & Son, Oakland..... 51,757
 N. H. Stober & Sons, Oakland..... 51,915
 David Nordstrom, Oakland..... 52,700
 Geo. Swanstrom, Oakland..... 53,845
 Dyer Const. Co., Oakland..... 54,550
 Mission Concrete Co., S. F..... 54,968
 J. W. Cobby, San Francisco..... 56,328
 Amoroso & Son, San Francisco..... 69,000
Plumbing and Heating
Geo. A. Schuster, 4712 Grove St.,
 Oakland..... \$5,262
 Kohler & Skelly, San Francisco..... 5,451
 L. H. Dahlman, Sacramento..... 5,490
 Geo. C. Fell, Oakland..... 5,573
 Carl T. Doell, Oakland..... 5,619
 Scott Co., San Francisco..... 5,816
 F. W. Snook Co., San Francisco..... 6,044
 Latourrette-Elec Co., Oakland..... 6,125
 W. H. Picard, Oakland..... 6,532

Electric Work
Geo. Woolf, 795 Alcatraz Ave.,
 Oakland..... \$1,782
 Roberts Mfg. Co., San Francisco..... 1,375
 Apex Elec. Co., San Francisco..... 2,034
 Porter Elec. Co., San Francisco..... 2,094
 H. S. Tittle Co., San Francisco..... 2,146
 (1924 and 1925) 1st report May 10,

Contract Awarded.
HEATING PLANT Cost, \$——
SAN JOSE, Santa Clara Co., Cal.
 Heating plant for Longfellow School.
 Owner—San Jose School Dist., Walter L. Bachrodt, secretary, Board of Education.
 Engineer—A. A. Coddington, 222 Kearny St., San Francisco.
 Contractor—San Jose Heating & Ventilating Co., San Jose.
 Complete list of bids follows:
 San Jose Heating & Ventilating Co., 14 Gummer Arcade, S. J. \$6800
 H. J. Pascoe, 208 W Santa Clara St., San Jose..... 7425
 Pacific Heating & Ventilating Co., 354 Hobart St., Oakland..... 7245
 O'Meara & Stewart, 218 Clara St., San Francisco..... 7990
 W. F. Stura..... \$137

Plans Being Prepared.
HEATING SYSTEM Cost, \$3500
MODESTO, Stanislaus Co., Cal. Washington and Lincoln Schools.
 Convert electric heating to steam heating system.
 Owner—Modesto School District.
 Architect—Davis-Pearce Co., Grant and Weber Sts., Stockton.

Plans Being Prepared.
ADDITION Cost, \$4500
MODESTO, Stanislaus Co., Cal. Washington Elementary School.
 Class C brick and plaster addition to school (tile roof, maple floors, etc.)
 Owner—Modesto School District.
 Architect—Davis-Pearce Co., Grant and Weber Sts., Stockton.

EUREKA, Humboldt Co., Cal. —Halsby & Lax, Eureka, at \$8640 awarded contract by Board of Education to erect primary school in Summer street near Lincoln School to house 2-classrooms and playground. Other bidders were: Fred J. Maurer & Son, Louis Halverson and W. J. Steeves, all of Eureka.

To Be Done By Day's Work.
SCHOOL & HOME Cost, \$10,000
OAKLAND, Alameda Co., Cal. Sixth and Jackson Sts.
 Two-story brick and concrete school and home (13 rooms).
 Owner and Builder—The Buddhist Church of Oakland, 1551 Laguna St., San Francisco.
 Architect—None.

Completing Working Drawings.
COLLEGE Cost, \$100,000 (1st unit).
ONTARIO, San Bernardino Co., Cal.
 First unit of Junior College (9 classrooms, 4 laboratories).
 Owner—Chaffey Union High School District.
 Architect—Allison & Allison, 1005 California Reserve Bldg., Los Angeles.
 Bids will be taken about August 15.

Commissioned To Prepare Plans.
ADDITIONS Cost, \$150,000
SAN FRANCISCO, E. Scott St. bet. O'Farrell and Geary Sts.
 Additions to Girls' High School.
 Owner—City & County of San Francisco.
 Architect—Frederick H. Meyer, 525 Market St.

Contract Awarded.
ALTERATIONS Cont. Price, \$2,200
LIVE OAK, Sutter Co., Ca.
 Alterations and additions to school.
 Owner—Live Oak Elementary School District, U. S. Terry, clerk, Live Oak.
 Architect—Chester Cole, 303-304 First National Bank Bldg., Chico.
 Contractor—F. S. Schott, Live Oak.

Plans Being Figured—Bids Close
 July 21.
ADDITIONS Cost, \$100,000
BERKELEY, Alameda Co., Cal.
 Classroom additions to Longfellow School (class C construction, brick, wood and steel joists in auditorium).
 Owner—Berkeley School District.
 Architect—Jas. W. Plachet, Mercantile Bank Bldg., Berkeley.

Bonds Sold—Bids To Be Asked Shortly
SCHOOL Cost, \$15,000
WINTERS, Yolo Co., Cal.
 One-story frame and stucco school (2 classrooms).
 Owner—Winters School District.
 Architect—Dean and Dean, California State Life Bldg., Sacramento.
 Bids will be taken about July 15.

Bids Opened.
SANTA CRUZ, Santa Cruz Co., Cal. (Gault School).
 One-story concrete school.
 Owner—Santa Cruz School District.
 Architects—A. I. Coffey, Phelan Bldg., and J. I. Rist, 760 Market St., San Francisco.

General Contract
 (Includes reinforced concrete, carpenter work, glazing, lathing, roofing, hardware, mill work, sheet metal work, etc. Alternate bid covered deduction for changing to wood.)
 Wilson & McGranahan, 75 Ocean View, Santa Cruz, \$49,474; \$2600.
 Palmer & Balsizer, Santa Cruz, \$51,400; \$3500.
 G. P. W. Jensen, San Francisco, \$56,200; \$4000.
 Carl N. Swenson, San Jose, \$56,480; \$4772.
 The Minton Co., Mt. View, \$56,963; \$3845.
 J. Branagh, Oakland, \$57,025; \$3000.
 Fred J. Westerlund, Oakland, \$57,440; \$4755.
 H. H. Larsen, San Francisco, \$57,473; \$5000.
 J. C. Thorpe, San Jose, \$59,935; \$7066.
 Grant L. Miner, Palo Alto, \$52,866; \$3480.
 G. Waller, Redwood City, \$62,947; \$2700.
 J. W. Cobby & Son, 260 Tehama St., San Francisco, \$59,983.

Electric
Roy M. Butcher, 1020 Sherwood St.,
 San Jose, \$2248.
 Superior Electric Co., San Francisco, \$2850
 Tanner Electric Co., San Jose, \$2995.
 Collins Electric Co., Stockton, \$3130.
 Dowd-Eid Electric Co., San Francisco, \$3390.
 M. Smith, Santa Cruz, \$3600.

Heating
San Jose, Heating & Ventilating Co., San Jose..... \$ 9,244
 Scott Co., San Francisco..... 9,417
 Knittle Bros., San Francisco..... 9,537
 P. J. Freiermuth, Watsonville..... 10,121
 Bryne Bros., Santa Cruz..... 10,151
 F. W. Snook, San Francisco..... 10,252
 W. H. Picard, Oakland..... 10,622
 Lühring & Krauter, San Jose..... 11,565

Plumbing
Izant & Wilson, 30 Water St.,
 Santa Cruz..... \$4575
 Fred J. Snook, San Francisco..... 4590
 P. J. Freiermuth, Watsonville..... 4777
 Byrne Bros., Santa Cruz..... 4980
 W. H. Picard, Oakland..... 5372
 All bids taken under advisement.

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SCHOOL Cost, \$80,000
SANTA CRUZ, Santa Cruz Co., Calif.
 One-story frame and stucco school (7 classrooms and assembly hall).
 Owner—Santa Cruz School District.
 Architect—W. H. Weeks, Hunter-Dunlin Building, San Francisco; 1736 Franklin St., Oakland, and Bank of Italy Bldg., San Jose.
 Contractor—The Minton Co., Palo Alto, and Mountain View.

Heating

San Jose Heating & Ventilating Co., San Jose.....\$5,960
Knittle Bros., San Francisco.....6,286
T. J. Kennedy, Martinez.....6,437
Geo. A. Schuster, Oakland.....6,675
P. J. Freleymuth, Watsonville.....6,714
W. S. Serpa, San Jose.....7,275
Moening Company, San Jose.....7,295

Plumbing

Izant & Wilson, 30 Water St., Santa Cruz.....\$4,745
Geo. A. Schuster, Oakland.....4,765
P. J. Freleymuth, Watsonville.....4,977
Byrne Bros., Santa Cruz.....5,190

Electric Work

Superior Electric Co., Phelan Bldg., San Francisco.....\$2,930
Collins Electric Co., Stockton.....3,461
I. M. Smith, Santa Cruz.....4,311
John Heit, Santa Cruz.....5,900
 All bids taken under advisement.

RENO, Nevada—Contracts for approximately \$9000 worth of furnishings for the new Mackay Science Building at the University of Nevada have been awarded to the following: Armanko Office Supply Co., A. Carlisle & Co., Remington Rand Co. and C. F. Weber Co. The furniture, which includes desks, chairs, tables and filing cabinets, will be installed in the building sometime between August 1 and 15.

Plans Being Figured—Bids Close July 23, 7:30 P. M.

HEATERS Cost, \$—
STOCKTON, San Joaquin County, Cal.
 American and Church Sts.
 Installation of heaters in Lafayette School.

Owner—Stockton School District, A. S. Williams, secretary, Board of Education, Lindsay and San Joaquin Sts., Stockton.

Architect—None.
 Certified check 10% required with bid. Spec. obtainable from secretary.

Contracts Awarded.

SCHOOL Cost, 1st unit, \$700,000
SAN FRANCISCO. Aptos and Westgate Aves.

Class A Aptos Junior High School (accommodate approx. 1200 students).
 Owner—City & County of San Francisco.

Architect—Shea and Shea, 454 Montgomery St.

General Work

MacDonald & Kahn, Financial Center Bldg......\$529,500

Electrical Work

L. Flatland.....\$37,332
Mechanical Equipment
Scott Co., 243 Minna St.....\$53,867
Plumbing and Gas Fitting
Scott Co., 243 Minna St.....\$34,987

Plans Being Figured—Bids Close July 11, 7:30 P. M.

REPAIRS Cost, \$—
RENO, Nevada.

Repairs to and remodeling of heating systems in Old Southside, Mary S. Doten and Mount Rose Schools.
 Owner—Reno School Dist. No. 10 of Washoe County, T. W. Clark, clerk
 Architect—Not Stated.

Separate bids will be received for each structure. Plans obtainable from the clerk.

Plans Being Figured—Bids Close July 19, 1 P. M.

REMODELING Cost, \$11,250
 (in bonds voted)
HAYWARD, Alameda Co., Cal. Crown Canyon Road near State Highway.

Move and remodel school.
 Owner—Independent School District.
 B. H. Manter, clerk, Route 3, Box 290, Hayward.

Architect—Not Given.
 Certified check 10% payable to Board of Trustees of district required with bid. Plans obtainable from clerk on deposit of \$10, returnable.

Plans Being Figured—Bids Close July 17, 8 P. M.

BOILER Cost, \$—
LIVINGSTON, Merced Co., Cal.
 Install low pressure steam boiler and Excelsio water heater in boiler room of Livingston Branch High School.

Owner—Merced Union High School District, Dr. N. S. Peck, clerk.
 Engineer—W. E. Bedesen, Shaffer Bldg., Merced.

Certified check 10% payable to clerk required with bid. Plans obtainable from engineer.

SACRAMENTO, Cal.—Until July 19, 8 P. M. bids will be received by Mrs. Catherine Mason, clerk, Sutter School District, to erect addition to present school. Certified check 10% payable to district required with bid. Plans obtainable from clerk.

Plans Being Figured—Bids Close July 21, 8 P. M.

GYMNASIUM Cost, \$—
TURLOCK, Stanislaus Co., Cal.
 Completion of school gymnasium.
 Owner—Turlock Union High School District, A. G. Crowell, clerk.
 Architect—W. H. Weeks, 111 Sutter St., San Francisco.

Separate bids are wanted for a general contract and on installation of heating system.

Certified check 5%, payable to clerk of district required with bid. Plans obtainable from architect on deposit of \$20, returnable.

Plans Being Figured—Bids Close July 18, 8 P. M.

GARAGE Cost, \$—
PORTERVILLE, Tulare Co., Cal.
 Erect school bus garage.

Owner—Porterville Union High School District, Bert W. Dennis, clerk.
 Architect—W. D. Coates, Jr., Co. 626 Rowell Bldg., Fresno.

Certified check or bidder's bond of 10% required with bid. Plans obtainable from architect or from C. O. Premo, 420 N Main St., Porterville.

TRACY, San Joaquin Co., Cal.—Until July 21, 8 P. M. bids will be received by George Parker, clerk, Tracy

Union High School District, for tinting and painting certain rooms in high school. Specifications on file in office of secretary.

Contract Awarded.

AUDITORIUM Cost, approx. \$18,000
GLASS VALLEY, Nevada Co., Cal.
 One-story frame auditorium.
 Owner—Sisters of Mercy, Grass Valley.
 Architect—Harry Devine, California State Life Bldg., Sacramento.
 Contractor—Harry Robertson, 209 8th St., Sacramento.

SAN RAFAEL, Marin Co., Cal.—Until July 16, 12 noon, bids will be received by Ada M. Fusselman, secretary, Marin Union Junior College District, 908 Fourth St., to furnish and deliver:

(1) Science apparatus and supplies;
 (2) Physical education apparatus and supplies.

Continuing bids for the entire school years 1930-1931 are requested. Specifications and further information obtainable from above.

Contract Awarded.

SCHOOL Cost, 1st unit, \$700,000
SAN FRANCISCO. Aptos and Westgate Aves.

Class A Aptos Junior High School (accommodate approx. 1200 students)
 Owner—City & County of San Francisco.

Architect—Shea & Shea, 454 Montgomery St.

General Work

MacDonald & Kahn, Financial Center Bldg......\$529,500

Electrical Work

L. Flatland.....\$37,332
Mechanical Work
F. W. Snook, 556 Clay St., S. F.

Plumbing and Gas Fitting
Scott Co., 243 Minna St.....\$34,987

Plans Being Figured—Bids Close July 29, 8 P. M.

SCHOOL Cost, \$160,000
SANTA CRUZ, Santa Cruz Co., Cal.
 Two-story reinforced concrete Mission type high school.

Owner—Santa Cruz School District.
 Architect—J. J. Donovan, 1916 Broadway, Oakland.

Contract Awarded.

ADDITION Cont. price, \$14,400
SAN LUIS OBISPO, San Luis Obispo Co., Cal. Hawthorne School.

Addition to kindergarten - primary School.

Owner—Hawthorne Elementary School District.

Contractor—T. M. Maino, San Luis Obispo.

Complete list of bids follows, all bidders being of San Luis Obispo:

Thos. M. Maino.....\$14,400
 W. J. Charters.....15,200
 Chas. W. Fairbanks.....15,792

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Contract Awarded.
HEATING Cont. price, \$1950
WIED, Siskiyou Co., Cal. High School
 Steam heating system for high school.
 Owner—Siskiyou Union High School
 District.
 Plans by Woodworth Wethered, State
 Hotel, 16 Turk St., San Francisco.
 Contractor—J. W. Anderson, Mount
 Shasta (bidding \$693 for fuel bin
 and \$1287 for passageway).

Plans Being Figured—Bids Close July
 7, 8 P. M.
HEATING PLANT Cost, \$—
SAN JOSE, Santa Clara Co., Cal.
 Heating plant for Longfellow School.
 Owner—San Jose School Dist., Walter
 L. Bachrodt, secretary, Board of
 Education.
 Engineer—A. A. Coddington, 222 Kear-
 ny St., San Francisco.
 Plans and specifications on file in
 office of secretary.

Contract Awarded.
SCHOOL Cost, \$—
MCLOUD, Siskiyou Ct., Cal.
 One-story concrete school.
 Owner—Siskiyou Union High School
 District.

Plans by Woodworth Wethered, State
 Hotel, 16th Turk St., San Fran-
 cisco.

General Contract—D. M. Reid, Yreka,
 at \$21,429.

Electrical Work — W. A. Carleton,
 Mount Shasta, at \$2245

Plumbing and Heating — Mrs. C. S.
 Allingham, Mount Shasta, at
 \$4466.

Bid Opening Postponed For Two or
Three Days.
SCHOOL Cost, \$70,000
HOLLISTER, San Benito Co., Cal.
 Two-story brick and concrete school
 (12 rooms).

Owner—Sacred Heart School (Rev.
 Daniel Keenan, pastor), Hollister.
 Architect—R. G. Montgomery, Cham-
 ber of Commerce Bldg., Los An-
 geles.

Bids are being received by Reverend
 Daniel Keenan, 606 West St., Hollister.

FRESNO, Fresno Co., Cal.—Until
 July 22, 10 A. M., bids will be re-
 ceived by W. J. Grotzbach, Clerk,
 West Park School District, to fur-
 nish and install automatic furnace
 and heating system, storage tank, ce-
 ment and other work at School. Bid-
 der's bond or certified check 10% re-
 quired with bid. Plans obtainable from
 clerk, Route A, Box 234, Fresno.

BANKS, STORES & OFFICES

Plans To Be Prepared.
ALTERATIONS Cost, \$—
SAN FRANCISCO. 773-75 Market St.
 Alterations to present building.
 Owner—California Mutual Bldg. and
 Loan Assn., 55 Montgomery Street
 (George Walker, president)
 Architect—Pring & Lesswing, 605 Mar-
 ket St.

Pile Driving Contract Awarded.
STORE Cost, \$125,000
SAN JOSE, Santa Clara Co., Cal.
 First and San Carlos Sts.
 Three-story Class C reinforced con-
 crete department store.

Owner—Hale Bros., Fifth and Market
 Sts., San Francisco.

Architect—Binder & Curtis, 35 W.
 San Carlos St., San Jose, and
 Swanson & Lane, Chicago, Ill.

Contractor—Dinwiddie Constr. Co.,
 Crocker Bldg., San Francisco.

Pile Driving—Raymond Concrete Pile
Co., Hunter-Dulin Bldg., San
 Francisco.

Other awards will be made shortly.

Contract Awarded.
ADDITION Cost, \$15,000
BAKERSFIELD, Kern Co., Cal. 607-
 609 E 19th St.
 One-story addition to concrete build-
 ing (50x140-ft.)
 Owner—A. H. Karpe Implement Co.
 Architect—Chas. A. Biggar, Bank of
 Italy Bldg., Bakersfield.
 Contractor—G. A. Graham Co., Bak-
 ersfield

Preliminary Plans Being Prepared.
STORE Cost, \$30,000
BERKELEY, Alameda Co., Cal.
 One-story brick store.
 Owner—Withheld.
 Architect—E. L. Snyder, 2101 Addi-
 son St., Berkeley.

OAKLAND, Cal.—Until July 14, 4:30
 P. M., bids will be received by G. B.
 Hegarty, secretary, City Port Com-
 mission, 424 Oakland Bank Building,
 to erect office addition at Hangar No.
 3, Municipal Airport. Certified check
 10% required with bid. Bond in full
 amount of contract price required of
 successful bidder. Plans obtainable
 from secretary on deposit of \$5, re-
 turnable

Plans Being Figured.
ALTERATIONS Cost, \$150,000
SAN FRANCISCO, Hunter-Dulin
 Bldg., 111 Sutter St.
 Remodel present building.
 Owner—Hunter-Dulin Bldg. (A. Gar-
 rison, Mgr.), premises.
 Architect—Earl T. Heitschmidt, 807
 Subway Terminal Bldg., Los An-
 geles.

The work will include two new ele-
 vators, elevator enclosures, art metal
 work, marble and tile work, skylights,
 terra cotta work, composition roofing,
 metal sash, etc.

Bids Wanted.
REMODELING Cost, \$7000
SAN JOSE, Santa Clara Co., Cal. 79
 Sixth St.
 Remodel present building (new fronts,
 interior work, etc.)
 Owner—Leon Jacobs.
 Architect—Charles McKenzie, Twohy
 Bldg., San Jose.
 Contractor—Wm. Caldwell, San Jose.
 Architect is taking bids on fixtures,
 painting, plastering, electric wiring,
 plate glass, etc.

Sub-Bids Being Taken.
FURNISHING Cost, \$60,000
SALINAS, Monterey Co., Cal.
 Fitting up banking rooms.
 Owner—Salinas National Bank.
 Architect—Swartz & Ryland, Spazier
 Bldg., Monterey; 373 Main St., Sa-
 linas, and Erix Bldg., Santa Cruz.
 Contractor—H. H. Larsen, 64 South
 Park, San Francisco.

Contract Awarded.
ALTERATIONS Cost, \$15,000
SAN FRANCISCO. 1164 Mission St.
 Alterations and additions to present
 building.
 Owner—Enterprise Electric Co., 1164
 Mission St.
 Architect—G. De Colmesnil, 1016 Ne-
 vada Bank Bldg.
 Contractor—McDonald and Kahn, Fi-
 nancial Center Bldg.

Sub-Contracts Awarded.
MARKET Cost, \$30,000
OAKLAND, Alameda Co., Cal. Dow-
 ling and Telegraph Ave.
 One-story frame and stucco drive-in
 market.
 Owner—George Scott.
 Plans by Cartwright & Hoffman, 2014
 W 4th St., Los Angeles.
 Contractor—L. R. McWethy, 337 17th
 St., Oakland.
 Plumber—J. A. Freitas, 1829 E 14th
 St., Oakland.
Electric Wiring—Matsen-Seabrooke,
 4115 Broadway, Oakland.

Plans Being Figured—Bids Close Aug.
 5, 2 P. M.
OFFICES Cost, \$—
LOS ANGELES, Calif. Civic Center,
 property bounded by First, Spring,
 Broadway and Court Sts.
 Twelve-story and basement class A
 State office building.
 Owner—State of California.
 Architect—John C. Austin (of the firm
 of John C. Austin and Fredrick M.
 Ashley), Chamber of Commerce
 Bldg., Los Angeles.

Bids for this project will be opened
 by the State Division of Architecture
 at Room 1025 Associated Realty Bldg.,
 Los Angeles, and not in Sacramento
 as is the custom on state bid open-
 ings. Segregated bids are wanted for
 the following segregate parts of the
 work and combinations thereof as
 listed:

1. General work and alternates.
2. Granite work and alternates.
3. Structural steel fabrication.
4. Structural steel erection.
5. Structural steel (fabrication and erection).
6. Electrical work and alternates.
7. Elevators and alternates.
8. Plumbing work and alternates.
9. Heating work and alternates.
10. Ventilation work and alternates.
11. Heating and ventilation work and alternates.
12. Plumbing, heating and ventilation work and alternates.

The General Work bid will embrace
 all branches of work other than segre-
 gated above. Plans obtainable from
 State Division of Architecture, Public
 Works Bldg., Sacramento, on deposit
 of \$50, returnable.

See call for bids under official pro-
 posal section in this issue.

Plans Being Figured.
OFFICES Cost, \$75,000
SANTA BARBARA, Santa Barbara
 Co., Cal. State and Figueroa Sts.
 Two-story and basement structural
 steel & concrete offices (44x95 ft.)
 Owner—Santa Barbara Mutual Bldg.
 & Loan Association, 814 State St.,
 Santa Barbara.
 Architect—Edwards & Plunkett, 20 E.
 Figueroa St., Santa Barbara.

THEATRES

Working Drawings Being Completed.
THEATRE Cost, \$250,000
SAN FRANCISCO. Ocean Ave., bet.
 Fairfield and Lakewood Aves.
 Class A steel frame and reinforced
 concrete theatre and (6-8) stores;
 theatre seating 1800.
 Owner—Samuel Levin.
 Architect—Miller & Pfueger, 580 Mar-
 ket St., San Francisco.

Structure will have a seating ca-
 pacity of 1800 and will contain six or
 eight stores. It will have a frontage
 of 182 feet on Ocean Ave.

Bids will be called for in about six
 weeks.

Contract Awarded.
THEATER & STORES Cost, \$125,000
MADERA, Madera Co., Cal. Yosemite
 Ave. and E St.
 Brick theater and store building (60x
 150-ft.; two stores, one 40 by 110
 ft., and three 20 by 45-ft.)
 Owners—Nello and Albert Barsotti,
 Madera.

Lessees—National Theatres Syndicate,
 25 Taylor St., San Francisco.
 Architect—Bliss & Fairweather, Bal-
 boa Bldg., San Francisco.

Contractor—Claude Miller, Madera.

Structures will have a seating ca-
 pacity of approximately 1,000. Seating
 will be on the bleacher type ar-
 rangement. A modern heating and
 ventilating and cooling system will be
 installed. J. C. Penny Co. will lease
 the 19x110-ft. store section.

Contract Awarded.
THEATRE Cost, \$300,000
SANTA BARBARA, Santa Barbara Co., Cal. Old Arlington Hotel Site on State Street.
 Class A reinforced concrete store and theatre (Spanish type, 110x210 ft.; to seat 1860)
 Owner—Guaranty Discount Corp.
 Lessee—Fox West Coast Theatres.
 Architect—Edwards & Punkett, 20 E. Figueroa St., Santa Barbara.
 Contractor—Henry I. Heller Constr. Co., 6513 Hollywood Blvd., Los Angeles.

BAKERSFIELD, Kern Co., Cal.—G. H. Graham, Bakersfield, at \$6000 awarded contract by city council to construct new municipal plunge in Heale Park. The present tank will be converted into a pool for small children.

OAKLAND, Cal.—Until July 14, 4:30 P. M. bids will be received by G. B. Hegardt, secretary, City Port Commission, 424 Oakland Bank Building, to furnish and deliver to Oakland Municipal Airport 5,000 cubic yards of quarry waste from second grade rock. Certified check 10% required with bid. Bond in full amount of contract price required of successful bidder. Specifications obtainable from secretary on deposit of \$5, returnable.

OAKLAND, Cal.—The following bids taken under advisement by city council to furnish and deliver (1) stone; (2) stone chips; and (3) rock screenings for various municipal departments for fiscal year:

San Leandro Rock Co., (1) \$1.35 ton; (2) \$1.35 ton; (3) \$1.50 ton.
 Melrose Bldg. Material Co., (1) \$1.50; (2) \$1.50; (3) \$1.50.
 Pacific Coast Aggregates (1) \$1.50; (2) \$1.50; (3) \$1.50.
 McKane & Kineny, (1); (2) \$1.50; (3) \$1.50.
 Oakland Bldg. Material Co., (1) \$1.45; (2) \$1.48; (3) \$1.48.
 Bids taken under advisement.

PLACERVILLE, El Dorado Co., Cal.—Placerville Lions' Club has donated \$500 toward construction of a community swimming pool in Bennett Memorial Park and has appointed a delegation to confer with the county supervisors seeking financial aid in such a project. It is proposed that the county provide a 1 cent tax for the pool this year to which will be added the regular Park Fund.

UKIAH, Mendocino Co., Cal.—Petitions are being circulated seeking donations to finance construction of a community swimming pool; 100 ft. long, 50 ft. wide and 10 ft. deep. The Fund Committee reports in excess of \$250 already contributed.

DEL MONTE, Monterey Co., Cal.—S. F. E. Morse, president of the Del Monte Properties Co. announces completion of a \$1,000,000 budget to finance improvements in the Del Monte section, involving:

Construction of a steepclechase course.
 Laying out of a new golf course.
 Enlargement of polo plant providing two tournament fields and two practice fields suitable for real games.
 Construction of new road providing direct route from Hotel Del Monte grounds to polo grounds area.
 Making available new building site area on hotel grounds for villas and cottages.
 Redecoration of Del Monte lodge, Pebble Beach.
 Installation of filtering system for Roman Plunge, Hotel Del Monte and Beach Club at Pebble Beach.
 Construction of a glass enclosed solarium overlooking sunken gardens on west side of Hotel Del Monte.
 Numerous internal construction and improvement items at Hotel Del Monte.
 Construction of a glass enclosed solarium overlooking sunken gardens on west side of Hotel Del Monte.
 Numerous internal construction and improvement items at Hotel Del Monte.

Sub-Contracts Awarded.
CORRAL Cont. price, \$4866
SACRAMENTO, Sacramento Co., Cal. State Fair Grounds.
Cattle Corral.
 Owner—State of California.
 Plans by Geo. B. McDougall, State Architect, Public Works Bldg., Sacramento.
 Contractor—Guth & Fox, 1516 27th St., Sacramento.
Lumber—Dolan Bldg. & Material Co., 31st and P Sts., Sacramento.
Plumbing—Sacramento Plumbing Co., 517 J St., Sacramento.
Electric Work—J. W. Thomas, 3216 T St., Sacramento.
Iron—Palm Iron Works, 1501 S Street, Sacramento.
Hardware—Murry & Low, 1009 J St., Sacramento.
Concrete—Carl R. Fiedler, 2631 30th St., Sacramento.
Reinforcing Steel—Thos. Scollan, 1305 J St., Sacramento.
 Other awards will be made shortly.

WHARVES AND DOCKS

OAKLAND, Calif.—Western Automatic Sprinkler Co., Inc., 114 Sansome St., San Francisco, at \$24,480 submitted low bid to City Port Commission to furnish and install complete automatic sprinkler system, fire hose piping and domestic water piping in Transit Shed No. 1, Brooklyn Basin, foot of 4th Ave. Bids taken under advisement. Complete list of bids follows:
 Western Automatic Sprinkler Co., San Francisco.....\$24,480
 Automatic Sprinkler Corp. of America, San Francisco.....25,900
 The Turner Co., San Francisco.....27,200
 Grinnell Co. of the Pacific, S. F. 27,900

Plans Completed—Bids To Be Asked Shortly.

IMPROVEMENTS Cost, \$—
STOCKTON, San Joaquin Co., Cal. Improvements at Municipal Wharf.
 Owner—City of Stockton, M. E. Page, city clerk.

Engineer—Lyle Paynton, city engineer, Stockton.

The plan includes widening 174 ft. of the city's wharf, under lease to the California Navigation Company at the head of the channel, for a distance of 12 feet and for enclosing and providing locked gates on 156 feet of the city's open wharf.

MISCELLANEOUS CONSTRUCTION

ALAMEDA, Alameda Co., Cal.—Curtis-Wright Airport Corp. has filed application with City Building Inspector Ernest H. Rogers seeking permit for yacht harbor improvements at the SW corner of the Alameda Airport. Project involves the construction of a concrete breakwater extending into the bay for a distance of 2,000 feet. On the east side of the harbor will be a creosoted bulkhead and pier, parallel to the breakwater. Board walk, 13-ft. wide, supported on piles is also provided. The cost is placed at \$40,526.

OAKLAND, Cal.—George D. Prentice, 2063 Webster St., Oakland, at \$4140 awarded contract by city council to erect auto service station at Municipal Corporation Yards.

PALO ALTO, Santa Clara Co., Cal.—Burns-McDonald-Smith Engineering Corp., 1031 S-Broadway, Los Angeles, in a report to the city council recommends incinerator plant of greater capacity than that now used in the disposal of garbage. The report has been taken under advisement. J. F. Byxbee Jr. is city engineer.

Contract Awarded
SWIMMING POOL Cost, \$7000
SANTA CRUZ, Santa Cruz Co., Cal. Reinforced concrete swimming pool.
 Owner—Marion Hollins.
 Architect—W. W. Wurster, 260 California St., San Francisco.
 Contractor—Arthur Payne, Redwood City.

BUSINESS OPPORTUNITIES

John P. Reiff of Reiff & Co., Drexel Bldg., Philadelphia, Pa., is anxious to represent any staple line manufactured in this territory. If interested, communicate with him direct.

Noblitt-Sparks Industries, Indianapolis, Ind., manufacturers of an electric water heater are anxious to secure an agency in this territory for its product. If interested, communicate with Mr. Dee S. Lenfesty, treasurer of the company, at the above address.

JORGENSEN COMPANY HOUSED IN NEW QUARTERS

The largest and one of the best equipped plants in Northern California for the handling of tool, alloy and special steels has just been completed and opened by the Earl M. Jorgensen Company at 534 Second St., Oakland, according to J. V. Coulter, district manager for the concern.

Ten thousand square feet of floor space is afforded by the new warehouse which is fitted with the latest and most modern apparatus for handling the special Bethlehem steels for which the company is the exclusive California distributor.

The buildings, warehouse and offices represent an investment of \$50,000 and are a monument to the success that has attended the establishment of the company in Oakland more than two years ago.

Among the features of the warehouse equipment are huge electrically operated doors and the only scale on the Coast graduated by one pound that will weigh from one to 10,000 pounds.

GETS PATENT RIGHTS

Erl H. Richardson of San Francisco, manufacturer of Richardson Fireplace Forms, is the recipient of patents from the United States Government. After four years of constant work through the Patent Office, a patent was issued Richardson covering many important improvements and an entirely new principle of controlling and conserving fireplace radiation. The patented Richardson Fireplace Form is both an improved damper and guide to determine what the mason and bricklayer will do to the most vital parts of chimney and fireplace. It insures proper proportioning of essential parts to the opening width and height.

Engineering News Section

BRIDGES

COLUSA COUNTY, Cal.—Frederickson & Watson, 354 Hobart St., Oakland, at \$18,127 awarded contract by State Highway Commission to construct three concrete girder bridges: one over Salt Creek, 1 mile north of Williams, consisting of two 26-ft. 6-in. spans; one over Freshwater Creek, 1½ mile north of Williams, consisting of three 25-ft. spans; a third across Green Valley Slough, 4 miles north of Williams, consisting of two 21-ft. 6-in. spans.

TURLOCK, Stanislaus Co., Calif.—A public hearing will be held at Stockton July 10 by Major J. R. D. Matheeson, U. S. Army District Engineer, California Fruit Bldg., Sacramento, on proposed Patterson bridge project, involving construction of a 200-ft. fixed span across the San Joaquin river west of Turlock. The project is backed by the Turlock and Modesto Chambers of Commerce and other interests in the vicinity.

SAN LUIS OBISPO, San Luis Obispo Co., Cal.—Irving L. Ryder, San Luis Obispo, at \$11,495 awarded contract by city council to construct reinforced concrete cement bridge, with wing walls and a reinforced cement concrete retaining wall at entrance to San Luis Obispo High School grounds over San Luis Obispo Creek at Ida Street near Marsh St.

NAPA, Napa Co., Cal.—Harry Thorsen, St. Helena, at \$6291.60 awarded contract by county supervisors to construct drainage structures in Berryessa Valley along line of road to be improved. Complete list of bids follows:

Harry Thorsen.....	\$6291
Wiggins & Kaiser.....	7169
Geo. French Jr.....	7209
Simon Lenz & Son.....	7363
Frank Gaggero.....	8367
W. L. Proctor.....	8369

NAPA, Napa Co., Cal.—E. W. Petersen, Oakland, at \$3,367 awarded contract by county supervisors to construct steel bridge over Napa river near Barro Station. Complete list of bids follows:

E. W. Petersen.....	\$3,367
C. C. Gildersleeve.....	3,499
Chas. H. Gildersleeve.....	3,542
Harry Thorsen.....	3,557
W. L. Proctor.....	3,639
R. P. Smith.....	3,804
Pacific Const. Co.....	9,379

COLUSA COUNTY, Cal.—Following bids received July 2 by State Highway Commission to construct a reinforced concrete girder bridge over Bear creek about 28 miles west of Williams, consisting of seven 31-ft. spans on concrete bents:

R. B. McKenzie, Gerber.....	\$19,956
Geo. J. Ulrich, Modesto.....	22,792
Whipple Eng. Co., Monrovia.....	25,400

SISKIYOU COUNTY, Cal.—Following 3 low bids received July 2 by State Highway Commission to construct a reinforced concrete bridge across the Shasta river about 7½ miles north of Yreka, consisting of two 200-ft. open spandrel arch spans, two 40-ft. girder spans and two 32-ft. girder spans:

Rocca & Colletti, San Rafael..... \$9,884
Ward Eng. Co., San Francisco 102,283
M. B. McGowan, San Francisco 103,977
Bids held under advisement.

SISKIYOU COUNTY, Cal.—Following bids received July 2 by State Highway Commission to construct a reinforced concrete girder bridge across the Klamath river about 10 miles north of Yreka, consisting of four 80-foot spans and two 72-foot spans on concrete piers:

Rocca & Colletti, San Rafael.....	\$37,779
Pacific Bridge Co., Portland.....	77,985
Ward Eng. Co., San Francisco.....	80,589

Bids held under advisement.

SAUSALITO, Marin Co., Cal.—Jasper-Stacy Co., 216 Pine St., San Francisco, at approximately \$600,000 awarded contract by T. A. Tomasini to construct timber, steel and concrete toll bridge over Richardson Bay between Sausalito and Belvedere. E. L. Cope, engineer, Hunter-Dulin Bldg., San Francisco.

YUBA CITY, Sutter Co., Cal.—Consulting Engineer Edward von Geldern, Second and C Sts., Yuba City, is making surveys to rebuild Sacramento-Northern subway trestle in Yuba City to provide parallel lanes of traffic to and from the city by way of the Feather River Bridge. Tentative plans provide that the railway, city and county share the cost of the improvements.

SAN RAFAEL, Marin Co., Cal.—County supervisors vote to join highway district for construction of Russian River bridge at Jenner. The cost of the bridge is placed at \$195,000 of which Marin County will pay \$12,500; Sonoma County, \$90,000; San Francisco, \$15,000 and Mendocino County, \$12,500.

MODESTO, Stanislaus Co., Cal.—County Surveyor J. H. Hoskins is making surveys for proposed Oakdale bridge over Stanislaus river. The project will involve approximately 1600 tons of steel and will cost \$160,000 in addition to a mile and a quarter of highway, estimated at \$29,000 additional. State aid will be sought to finance construction.

REDDING, Shasta Co., Cal.—Bids will be asked shortly by county supervisors to construct two bridges on road between Keswick and Iron Mountain; wood and concrete construction, one over Spring Creek ¼ mile east of site of former Keswick smelter site and another over Keswick Creek, ¼ mile north of Keswick.

TRINITY COUNTY, Cal.—Following are three bids received July 9 by State Highway Commission, to construct bridge across Trinity River near Douglas City, consisting of two 125-ft. steel deck truss spans with concrete deck, four 56-ft. reinforced concrete girder spans and two 30-ft. reinforced concrete girder spans. Whittle Engineering Co., Monrovia..... \$83,000
F. J. Maurer & Son, Eureka..... \$5,010
M. B. McGowan, San Francisco..... \$6,754

SANTA BARBARA COUNTY, Cal.—Until July 30, 2 P. M., bids will be received by State Highway Commission to construct reinforced concrete girder bridge over Nojoqui Creek, 7½ miles south of Zaca, composed of four 42-ft. 6-in. spans on concrete bents and an abutment.

SACRAMENTO, Cal.—County Supervisors of Sacramento and Yolo are conferring on proposed construction of railroad-automobile bridge over Sutter Slough near Courtland. The Western Pacific and Sacramento Northern Railroads will share the cost with the counties if the Interstate Commerce Commission authorizes the construction of the Holland R. R. extension to Ryde.

SEATTLE, Wash.—U. S. Steel Products Co. Seattle, at \$1,247,888 awarded contract by State Highway Commission to construct steel superstructure of new Aurora Ave. bridge.

SAN CARLOS, San Mateo Co., Cal.—Until July 15, 8 P. M., bids will be received by Julius M. Edling, city clerk, to construct reinforced concrete culverts, as follows:

One 3 ft. by 10 ft. reinforced concrete box culvert on Arroyo Ave. at intersection of Walnut St. over Pulgas Creek; one 5 ft. by 6 ft. reinforced concrete box culvert on Elm St. over Pulgas Creek; one 5 ft. by 6 ft. reinforced concrete box culvert on Chestnut St. over Pulgas Creek; one 5 ft. by 6 ft. reinforced concrete box culvert on Cedar St. over Pulgas Creek, and one 13 ft. by 13 ft. reinforced concrete box culvert on Stanford Lane over Cordilleras Creek at east end of Stanford Lane.

Certified check 10% payable to city required with bid. Plans on file in office of clerk.

SAN JOSE, Santa Clara Co., Cal.—Frank Neves, 891 Harrison St., San Jose, at \$15,433 submitted low bid to city council to construct reinforced concrete bridge over Guadalupe river at Anzures Ave. Complete list of bids follows, the two lowest being taken under advisement:

Frank Neves.....	\$15,433
Thermotte Constr. Co.....	16,694
John D. Carlson.....	17,895
Carl N. Swenson.....	17,900
Wiggins & Kaiser.....	19,720

SAN JOSE, Santa Clara Co., Cal.—Collins & Martin, San Jose, at \$9794 awarded contract by county supervisors to construct wooden Pratt truss bridge in Hellyer Ave. over Coyote Creek, Supervisor District. Following is a complete list of bids received:

Kenyon Bros.....	\$10,807
Thermotte Constr. Co.....	11,423
George G. Wood.....	11,450
Wm. Radtke.....	12,356
Frank Neves.....	12,473
J. E. Fitzsimmons.....	12,950
John D. Carlson.....	13,062
C. C. Gildersleeve.....	14,000
John W. Williams.....	14,500
Surveyor's estimate.....	10,900

DREDGING, HARBOR WORKS & EXCAVATIONS

ALAMEDA, Alameda Co., Cal.—See "Miscellaneous Construction," this issue. Yatch harbor improvements proposed by Curtis-Wright Airport Corp.

IRRIGATION PROJECTS

CALIFORNIA.—Following permits granted during the month of June, 1930, by the State Department of Public Works, Division of Water Rights, Sacramento, to appropriate water:

Permit 3492, Application 6435 (San Bernardino Co.). Issued to J. F. Gore, Beverly Hills, for 0.1 c.f.s. from unnamed spring, for irrigation on forty acres. Est. cost \$750.

Per. 3493, App. 6564 (Trinity Co.). A. S. Keck and W. H. Badley, Burnt Ranch, Calif., for 0.3 c.f.s. from unnamed spring for mining, water to be returned to Trinity river. Est. cost, \$500.

Per. 3494, App. 6599 (Inyo Co., J. F. Chrysler and E. H. Cook, Lone Pine, Calif., for 0.925 c.f.s. from Carrol creek for irrigation and domestic on 20 acres. Est. cost, \$300.

Per. 3495, App. 5073 (Inyo Co.), H. W. Eichbaum, Avalon, Calif., for 0.008 c.f.s. from Lower spring in Emigrant Canyon, for domestic use. Est. cost \$150.

Per. 3496, App. 5336 (Inyo Co.), H. W. Eichbaum, Darwin, Calif., for 0.001 c.f.s. from unnamed seepage water, for domestic use. Est. cost, \$3000.

Per. 3497, App. 6453 (Del Norte Co.) E. F. Raymond, Crescent City, for 5 c.f.s. from Patrick's creek, for power. Est. cost \$1500.

Per. 3498, App. 6556 (El Dorado Co.) A. E. Rasor care A. J. Harder, atty., 312 Ochsenr Bldg., Sacramento, for 54.8 acre-feet per annum from Rock creek, for mining. Est. cost \$2000.

Per. 3499, App. 6557 (El Dorado Co.) A. E. Rasor care A. J. Harder, atty., 34.2 acre-feet per annum from Rock creek, for irrigation of 10 acres. Est. cost \$2000.

Per. 3500, App. 6558 (El Dorado Co.) A. E. Rasor care A. J. Harder, atty., 34.2 acre-feet per annum from Rock creek, for recreation and domestic. Est. cost \$2000.

Per. 3501, App. 5286 (Inyo Co.) J. I. Crowell, R. F. D. No. 1, Box 60, Van Nuys, Calif., for 0.025 c.f.s. from Keane springs, for mining, milling and domestic. Est. cost \$7,000.

Per. 3502, App. 6664 (Sutter Co.) J. R. Suter, Cannam, Sutter Co., Cal., for 1.94 c.f.s. from Sacramento river for irrigation 154,967 acres. Est. cost \$5000.

Per. 3503, App. 4752 (Riverside Co.) Palm Valley Water Co. care C. L. McFarland, atty., Evans block, Riverside, for 1.5 c.f.s. from Snow creek, for domestic use. Est. cost \$81,000.

Per. 3504, App. 6436 (Siskiyou Co.) C. W. Fay, 4181 Lincoln Ave., Oakland, for 3 c.f.s. from Mill creek, for mining and domestic use. Est. cost, \$75.

Per. 3505, App. 6512 (Sonoma Co.) J. M. Fernandez, Box 490, Sonoma, for 0.22 c.f.s. from Sonoma Creek, for irrigation. Est. cost \$825.

Per. 3506, App. 6284 (Mono Co.) T. H. McKee, Bishop, Calif., for 3000 gallons per day from unnamed spring, for domestic use. Est. cost, \$350.

Per. 3507, App. 6129 (Tuolumne Co.) Sierra and S. F. Power Co., care P. M. Downing, 1st vice-president and general manager, P. G. & E. Co., 245 Market St., San Francisco, for 5360 acre-feet per annum from South Fork Stanislaus river, for power (3332 l.h.p.) Est. cost \$380,000.

Per. 3508, App. 6130 (Tuolumne Co.) Sierra and S. F. Power Co., 245 Market St., San Francisco, for 5360 acre-feet per annum from South Fork of Stanislaus river, for irrigation and domestic, 3500 acres. Est. cost \$380,000.

Per. 3509, App. 6540 (Placer Co.) Mrs. Eva Harness and R. Longley, Loomis, Calif., for 0.26 c.f.s. from Secret Ravine, for irrigation, 37 acres. Est. cost, \$850.

CALIFORNIA.—Following applications for permits to appropriate water were filed with the State Department of Public Works, Division of Water Rights, during the month of June, 1930:

Application 6690 (Trinity Co.) C. M. Salyer care C. A. Paulsen, Weaver, Calif., for 25 c.f.s. from Hawkins creek tributary to Trinity river, for mining and domestic purposes. Est. cost \$5000.

App. 6691 (Plumas Co.) J. W. McKee and M. J. Reld, Meadow Valley, Calif., for 12,000 gallons per day from Deadwood creek tributary to Spanish creek, for mining and domestic purposes. Est. cost \$200.

App. 6692 (Mono Co.) Henry Heyman, 222 W 25th St., Long Beach, for 200 gallons per day from Rock creek tributary to Owens river, for domestic purposes. Est. cost \$200.

App. 6693 (Modoc Co.) R. O. Fink, Cedarville, Calif., for 0.62 c.f.s. from Thomas creek tributary to North Fork Pit river, for irrigation and domestic purposes on 50 acres. Est. cost, \$50.

App. 6694 (Humboldt Co.) Chas. E. Snider and Walter Wilson, care Chas. E. Snider, 812 Mills Bldg., San Francisco, for 300 c.f.s. from Slate creek tributary to Klamath river, for mining purposes.

App. 6695 (San Bernardino Co.) R. S. Irwin, Lucerne Valley, Calif., for 0.5 c.f.s. from two unnamed springs tributary to unnamed waterway thence Mojave Desert, for irrigation and domestic purposes on 40 acres. Est. cost \$3000.

App. 6696 (Colusa Co.) J. W. Brownling, care Thos. Rutledge, Colusa, for 5.95 c.f.s. from Sacramento river tributary to Suisun Bay, for irrigation purposes on 476.2 acres. Est. cost \$6,690.

App. 6697 (Butte Co.) H. N. Dalley care Polk & Robinson, Chico, Calif., for 2 c.f.s. from Middle Butte creek tributary to Sacramento river for mining and domestic purposes. Est. cost \$500.

App. 6698 (Siskiyou Co.) Fred J. Blakeley, care Butler, Van Dyke Desmond & Harris, attys., P. O. Box 1114, Sacramento, for 25 c.f.s. and 4000 ac. ft. per annum from Elliott creek tributary to Applegate river, for irrigation and domestic purposes.

App. 6699 (Butte Co.) H. C. Adams, Chico, for 17.5 c.f.s. from drainage ditch from Drainage Dist. No. 2 tributary to Butte creek and Sacramento river, for irrigation purposes on 700 acres. Est. cost \$1500.

App. 6700 (Butte Co.) H. C. Adams, Chico, for 3 c.f.s. from drainage ditch from Drainage District No. 2, tributary to Butte creek and Sacramento river, for irrigation purposes on 120 acres.

App. 6701 (Nevada Co.) Nevada Irrigation District, care Fred H. Tibbets, chief engineer 1320 Alaska Commercial Bldg., San Francisco, for (1) 15 c.f.s. (2) 5 c.f.s. from (1) Fall creek (2) South Fork Fall creek tributary to South Fork Yuba river, for power purposes. Est. cost \$450,000.

App. 6702 (Nevada Co.) Nevada Irrigation District, care Fred H. Tibbets, chief engineer 1320 Alaska Commercial Bldg., San Francisco, for (1) 15 c.f.s. (2) 5 c.f.s. from (1) Fall creek (2) South Fork Fall creek tributary to South Fork Yuba river, for irrigation purposes on 167,789 acres. Est. cost \$450,000.

App. 6703 (Shasta Co.) Lambert Dost, 3335 S Vermont Ave., Los Angeles, for 0.25 c.f.s. from two unnamed springs and unnamed creek tributary to Churn creek, thence to Sacramento river, for domestic and irrigation purposes on 20 acres.

App. 6704 (Lake Co.) Martin Judge, Jr. and Co., Crocker 1st National Bank Bldg., San Francisco, for 250 c.f.s., and 175,000 ac. ft. per annum from North Fork Cache creek, tributary to Cache creek, for industrial and domestic purposes. Est. cost \$3,000,000.

App. 6705 (Lake Co.) Martin Judge Jr. and Co., Crocker 1st National Bank Bldg., San Francisco, for 175,000 ac. ft. per annum from North Fork of Cache creek tributary to Cache creek for irrigation on 50,000 acres. Est. cost \$1,000,000.

App. 6706 (San Bernardino Co.) Geo. Tillitt, Highland, Calif., for 0.003 (or approx. 1950 gallons per day) from unnamed spring tributary to Green Valley creek, thence Deep creek, thence Mojave Desert, for domestic purposes. Est. cost \$500.

App. 6707 (Alameda Co.) East Bay Municipal Utility District, care T. P. Wittschen, atty., 1406 Latham Square Bldg., Oakland, for 42 c.f.s. and 41,436 ac. ft. per annum from San Leandro, Kliser, Redwood, Moraya, Kings, Reilly's and Perez creeks tributary to San Leandro Bay, for municipal purposes. Est. cost \$137,000.

App. 6708 (Ventura Co.) W. S. Dunshee, Edw. M. and J. L. Selby, Ventura, for 100 ac. ft. per annum from Cayote creek tributary to Ventura river for recreational and domestic purposes. Est. cost \$50,710.

App. 6709 (Ventura Co.) Edw. M. and J. L. Selby, R. D. No. 1, Ventura, for 0.067 c.f.s. from Mountain spring tributary to North Fork Cayote creek thence Cayote creek, thence Ventura river, for domestic purposes. Est. cost \$2000.

App. 6710 (Glenn Co.) E. K. Reynolds, Elk Creek, Calif., for 0.06 c.f.s. from Stonely creek tributary to Sacramento river, for irrigation on six acres. Est. cost \$250.

App. 6711 (Stanislaus and Merced Cos.) Turlock Irrigation Dist., care R. V. Markle, chief engineer, 117 West main St., Turlock, for 800 c.f.s. from Tuolumne river tributary to San Joaquin river, for irrigation purposes.

App. 6712 (San Joaquin Co.) Frank Piccardi, Carlo Morzone, Angelo Calcagno and C. Farani, 109 E Weber St., Stockton, Calif., care L. B. Raab, for 0.92 c.f.s. from San Joaquin river tributary to Suisun Bay, for irrigation and domestic purposes on 73.7 acres. Est. cost \$3000.

App. 6713 (Inyo Co.) Ada Norris, P. O. Box 2, Trona, Calif., for 0.50 c.f.s. from spring in Pleasant Canyon tributary to Panamint Valley Watershed, for mining and domestic purposes.

App. 6714 (San Bernardino Co.) M. F. Bird, B Bar B Ranch, Victorville, Calif., for 0.25 c.f.s. from Ruby springs Ruby canyon tributary to Mojave Desert, for irrigation and domestic purposes on 15 acres. Est. cost, \$20.

App. 6715 (Shasta Co.) J. J. Vokal, et al. care R. J. Anderson, Sulte, P. O. Bldg., Redding, for 7 c.f.s. from Olney creek including foreign and natural flow tributary to Sacramento river, for power purposes. Est. cost \$250.

App. 6716 (Shasta Co.) J. J. Vokal, et al. care R. J. Anderson, Redding, for 0.50 c.f.s. from Olney creek including foreign and natural flow tributary to Sacramento river, for irrigation and domestic purposes. Est. cost \$250.

STREET LIGHTING SYSTEMS

PORTERVILLE, Tulare Co., Cal.—City council declares intention (134) to install ornamental electrolier system in Main St., bet. Olive and Morton Sts., involving 56 two-light standards together with underground system. Union Metal Mfg. Co's. standards, Design No. 2281. 1911 Act. Bond Act 1915. Hearing Aug. 5. W. R. Means, city clerk. Fred Pease, city engineer.

SAN JOSE, Santa Clara Co., Cal.—City Improvement Co., 2055 Center St., Berkeley, awarded contract by city council to install electroliers with underground system in Third St., between St. John and San Antonio Sts., involving (San Jose Design) Duplex electroliers.

SAN RAFAEL, Marin Co., Cal.—City council has started proceedings to install electrolier system in Fourth street from East St. to west line of Pacific Tel. & Tel. Bldg. in H Street. Pressed metal type of standard will be installed. H. K. Brainerd is city manager.

GUSTINE, Merced Co., Cal.—City Council rejects bids July 7 to install electrolier system involving 37 metal standards and new bids will be asked. Bids were: City Improvement Co., 2055 Center St., Berkeley, \$5520; Putte Electric Manufacturing Co., 956 Polson St., San Francisco, \$6476; A. E. Cowell is city engineer.

REDWOOD CITY, San Mateo Co., Cal.—City council starts proceedings to install electroliers in Broadway, Brewster & Hopkins Ave. in Broadway and Brewster Ave. from El Camino Real, 77 two-light standards will be installed and Broadway bet. Hopkins Ave. and Iris St., 37 single-light standards and in Duane St., 1 single-light standard.

MACHINERY AND EQUIPMENT

KERMAN, Fresno Co., Cal.—Until July 21, 7:30 P. M., bids will be received by R. F. W. Anderson, clerk, Empire School District, to furnish and deliver school bus. Bids will be considered at the same time for the sale of a Model AA, Ford chassis school bus of 45 to 50 passenger capacity. Specifications obtainable from clerk at Route 1 Box 355, Kerman.

KING CITY, Monterey Co., Cal.—King City Mercantile Co., King City, at \$1,575 awarded contract by city council to furnish International Freight truck with steel dump body for street department.

SONOMA, Sonoma Co., Cal.—Until July 19, 7:30 P. M., bids will be received by R. O. Hotz, secretary, Sonoma Valley Union High School District, to furnish and deliver school bus for transportation of pupils; capacity 46 passengers. Bids may be submitted on chassis and on body separately. Bids between \$3,000 and \$4,000 only will be considered. Certified check 10% required with bid. Further information obtainable from secretary.

CHOWCHILLA, Madera Co., Cal.—Until July 18, 8 P. M., bids will be received by N. E. Jensen, clerk, Sharon School District, to furnish and deliver one new Ford Model AA, 1½-ton truck chassis, equipped with extension frame overload springs, dual tires rear, single tires front, and one spare tire, and one Patchetts and Carstensen School Coach Body No. 174-B with genuine leather upholstery. Bids should be sent to N. E. Jensen, Box 221, Chowchilla, Calif. Certified check 10% required with bid. Further information obtainable from clerk.

SACRAMENTO, Cal.—Until July 16, 3 P. M., bids will be received by U. S. Engineer Office, California, Fruit Bldg., Sacramento, under Order No. 2102-1052, to furnish and deliver Rio Vista, Solano County one dragline bucket similar and equal to "Page Class C" bucket. It shall have a rated

capacity of 1 cu. yd. and a struck measurement of 34 cu. ft. It shall weigh not less than 3,450 lbs. and can be equipped with hoisting and pulling chains and at least 4 drag teeth on bottom flange of bucket. The chains shall be land made dredge chain with cast manganese and links. Snavees and cable fittings shall be furnished with the bucket, but the cables will be assembled and supplied by U. S.

Separate bids will be considered to furnish and deliver one clamshell bucket with rounded shell, heavily constructed, Western type bucket. It shall have a water measurement capacity of 1 cu. yds. It shall be of the jack knife type and as far as consistent with good practice, have a minimum distance from bottom of bucket to top of arms when the bucket is closed. It shall be equipped with at least 7 manganese steel digging teeth. Delivery is desired to Rio Vista, Calif., within 30 calendar days after receipt of order. Further information obtainable from above office.

CHOWCHILLA, Madera Co., Cal.—Until July 18, 8 P. M., bids will be received by N. E. Jensen, clerk, Sharon School District, for sale of one used 1923 Reo School Bus, capacity of 30 passengers. The bus is no longer required for district use. Bus may be inspected by application to N. E. Jensen, Box 221, Chowchilla. Terms of sale, cash.

PORTERVILLE, Tulare Co., Cal.—Until July 18, 8 P. M., bids will be received by Bert W. Dennis, clerk, Porterville Union High School Dist., to furnish and deliver a 35-passenger auto school bus complete, and for chassis and body separately. Certified check of bidder's bond 10% required with bid. Specifications and further information obtainable from clerk.

EL CERRITO, Contra Costa Co., Cal.—Fagel Motor Co., at \$3222 awarded contract by city trustees to furnish motor truck for street department.

SAN FRANCISCO—Until July 17, 2 P. M. bids will be received by U. S. Forest Service, Ferry Bldg., to furnish and deliver three gasoline shovels of 1 cubic yard capacity, crawler type. Specifications and further information obtainable from above office.

RAILROADS

OAKLAND, Cal.—Until July 14, 4:30 P. M., bids will be received by G. B. Hegardt, secretary, City Port Commission, 424 Oakland Bank Building, for grading of road beds and laying track to serve 9th Ave. Pier. Certified check 10% required with bid. Bond in full amount of contract price required of successful bidder. Specifications obtainable from secretary on deposit of \$5, returnable.

SAN FRANCISCO.—Bids will be considered by the Western Pacific R. R. Mills Bldg., San Francisco, to construct that company's portion of the 11½-mile Klamath Falls-Keddie rail link. The bids will cover the construction from Keddie to Bieber, Calif., costing approximately \$9,824,669, according to H. M. Adams, president of the company. The project will involve in the main:

1,400 acres clearing, grading, ballasting and line protection;
11 tunnels to be constructed, total length 6,500-ft.;
17,815 tons 85-lb. rails;
5,100 tons struc. steel for viaducts and bridges;
416,371 Douglas fir cross ties.
The Great Northern Railway, in con-

nection with this project, is preparing plans for its 85-mile section of the new road between Bieber and Klamath Falls, this unit to cost \$3,924,520, and will involve:

14,000 tons 90-lb. rails;
286,000 cross ties;
266,000 cu. yds. ballast;
600 acres clearing, etc.

FIRE ALARM SYSTEMS

WASHINGTON, D. C.—(By Special Wire)—Safety Electric Co., 8952 Ellis Ave., Culver City, Calif., submitted low bid to Bureau of Yards and Docks, Navy Department, Washington, D. C., to install fire alarm system, consisting of call boxes, accessory equipment and wiring, at Naval Ammunition Depot, Hawthorne, Nevada. Bid was: Gamewell, \$7,598; Autocall, \$5,343. Complete tabulation of bids will be published shortly.

FIRE EQUIPMENT

EUREKA, Humboldt Co., Cal.—Until July 15, 5 P. M., bids will be received by A. Walter Kildale, city clerk, to furnish and deliver 1000 ft. 2½ inch double jacket cotton fire hose in 50-ft. lengths with couplings. Specifications on file in office of clerk.

SEWERS AND SEWAGE DISPOSAL PLANTS

STOCKTON, San Joaquin Co., Cal.—Until July 21, 5 P. M., bids will be received by M. E. Page, city clerk, to construct sanitary sewer system, consisting of main sewer, wye branches, manholes with automatic flush tanks in E. Scott Ave. 1911 Act. Certified check 10% payable to city required with bid. Plans on file in office of clerk.

GRASS VALLEY, Nevada Co., Cal.—Oakland Const. Co., Oakland, at \$1,968 awarded contract to furnish materials and construct S. Auburn St. sewer, involving: 1550 ft. of vitrified salt glazer sewer pipe, 6-in. dia. and 150 ft. of iron pipe, 6-in. dia.; 8 manholes; flush tank.

RICHMOND, Contra Costa Co., Calif.—O. U. Miracle, San Diego, at \$99,209 submitted low bid to city council (479) to construct combined storm and sanitary sewers in Dock Ave., bet. 10th St. and east termination of Dock Ave., etc., involving salt glazed vitrified clay pipe; centrifugally cast reinforced concrete pipe; cast iron pipe; salt glazed vitrified clay sewer pipe in timber cradle on piles and in concrete pipe jackets on piles; centrifugally cast reinforced concrete pipe in reinforced concrete cradle on piles; manholes; overflow structures; storm water inlets, etc. Bids taken under advertisement for one week. Complete bid listing follows:

O. U. Miracle, San Diego.....	\$99,209
Jasper-Stacy Co., S. F.....	139,946
Hesch-Thibbitts Constr. Co., San Francisco.....	146,173
J. C. Hickey, S. F.....	156,857

PALO ALTO, Santa Clara Co., Cal.—Burns-McDonald-Smith Engineering Corp., 1031 S. Broadway, Los Angeles, in a report to the city council recommends the construction of joint outfall sewer mains and sewage treatment plant for Palo Alto and Stanford University at an estimated cost of \$205,000 to make satisfactory disposition of sewer matter from the two communities. In its recommendation for construction of a joint outfall sewer, the engineering firm estimates the pro rata share of the cost as

\$220,500 for Palo Alto, and \$74,500 for Stanford University.

STEEGE, Contra Costa Co., Cal.—M. J. Bevanda, Stockton Savings & Loan Bldg., Stockton, at \$141,080 awarded contract by Stege Sanitary District, (1) for sewers in Acq. and Imp. Dist. No. 5, in portions of Monterey St., Carl Ave., etc., involving 30-inch and 36-inch vitrified sewer pipe; 4-in. and 36-in reinforced concrete sewers with stand. vit. clay lining blocks; brick and cem. concrete manholes. Complete list of bids follows:

M. J. Bevanda, Stockton.....	\$141,080
Henley-Moore Co., Oakland.....	145,613
O. U. Miracle Constr. Co., San Diego.....	138,479
Jasper-Stacy Co., S. F.....	164,655
John Krustich, Byron.....	164,926
P. & H. Constr. Co.....	152,517
J. C. Hickey, San Francisco.....	229,145

SAN DIEGO, Cal.—See "Streets and Highways," this issue. Bids wanted by State Department of Public Works for services at San Diego State Teachers' College.

GUSTINE, Merced Co., Cal.—John Pestana, 1232 35th Ave., Oakland, at \$17,496 awarded contract by city trustees to furnish and lay approximately 6200 feet 24-in. vitrified clay pipe sewer in various streets. Complete list of bids follows:

John Pestana, Oakland.....	\$17,496
Ed. Bowman, Oakland.....	17,350
W. J. Schmidt, Berkeley.....	17,576
Jas. T. Clinch, Richmond.....	18,960
Oakland Constr. Co., Oakland.....	19,416
W. J. Tobin, Oakland.....	19,564
J. C. Hickey, Berkeley.....	19,580
H. E. Conner, Redwood City.....	20,060
City Improvement Co., Berkeley.....	21,660
J. Varano, San Francisco.....	22,230
L. L. Page, Richmond.....	23,858
John Kristich, Knightsen.....	24,650
A. Fred Anderson, Oakland.....	25,384

WATER WORKS

SAN FRANCISCO—Until July 14, 3 P. M., under Proposal No. 613, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish and deliver wrought steel pipe for park commission. Specifications obtainable from above.

SAN FRANCISCO—Until July 14, 3 P. M., under Proposal No. 614, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish and deliver cast iron pipe for park commission. Specifications obtainable from above.

LIVERMORE, Alameda Co., Cal.—Following bids taken under advertisement by Superintendent of Construction, U. S. Veterans' Hospital, Palo Alto, to install one deep well pump, meter pipe and power lines in Veterans' Hospital at Livermore:

(1) pump; (2) pipe; (3) power lines.	
Sterling Pump Co. (1) \$2,748.	
P. E. Furr, (1) \$3,653; (2) \$6,983; (3) \$3,405.	
Severin Electric Co. (2) \$7,695; (3) \$4,089.	
Robert Garcia Well Co. (1) \$2,754; (2) \$8,227.71; (3) \$4,776.	
Butte Electric Co. (1) \$3,129; (2) \$8,800; (3) \$3,141.	
Byron Jackson Co., (1) \$2,875.	

PHOENIX, Ariz.—The proposed pipe line from the Verde River to the city reservoirs, for which bonds in the sum of \$2,364,000 were recently voted, will be approximately 22 miles in length. According to present plans, alternate bids will be taken on cement, steel and cast iron pipe, and

also alternative proposals on one 48-in. line and on two 36-in. companion pipe lines. Plans and specifications are to be ready by July 10. The bond issue also provides for a 10,000,000-gallon storage reservoir. W. J. Jamieson has complete charge of preparation of plans and specifications.

SAN FRANCISCO—Until July 22, bids will be received by Bureau of Supplies and Accounts, Navy Department, Washington, D. C., to furnish and deliver, San Francisco, 1 knocked-down elevated steel water tank of 100,000-gals. capacity. Purchase is provided for under Schedule No. 3727. Further information obtainable from Navy Purchasing Office, 100 Harrison St., San Francisco.

SAN FRANCISCO—Until July 21, 3 P. M., under Proposal No. 615, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish and deliver 25,000 ft. 6-in. and 25,000 ft. 8-in. cast iron pipe, cement lined, made in the U. S. for use of the San Francisco Water Department. Specifications obtainable from above.

RED BLUFF, Tehama Co., Cal.—W. C. Hickman, superintendent, Municipal Water System is making surveys to replace portion of pipe line from Antelope Creek section.

SAN DIEGO, Cal.—See "Streets and Highways," this issue. Bids wanted by State Department of Public Works for services at San Diego State Teachers' College.

STREETS AND HIGHWAYS

PACIFIC GROVE, Monterey Co., Cal.—City council declares intention (3222) to improve Pacific Ave. from Lighthouse Ave. to Briggs Ave., involving cem. conc. gutters, curbs; 2-in. asph. conc. surface on present macadam pave, 34-ft. wide; storm drain and grading and intersections; san. sewers. 1911 Act. Bond Act 1915. Hearing July 17 W. G. Stubbs, city clerk.

PACIFIC GROVE, Monterey Co., Cal.—City council declares intention (3222) to improve Willow Street between Lighthouse Ave. and Junipero Ave., involving cement concrete gutters and curbs; 2-in. asph. conc. pavement on existing macadam roadway, 34 ft. wide; storm drains and grading at intersections; san. sewer laterals. 1911 Act. Bond Act 1915. Hearing July 17. W. G. Stubbs, city clerk.

SAN CARLOS, San Mateo Co., Cal.—Until July 15, 8 P. M., bids will be received by Julius M. Edling, town clerk (30-4) to improve portions of Arroyo Ave., Chestnut St., Elm St., etc., involving grading; cem. concrete curbs, walks, gutters; 4-inch water-bound rock macadam pave with 3-in. asph. conc. surface; salt glazed iron-stone pipe sanitary sewers with wyes; cem. conc. storm water sewers. 1911 Act. Bond Act 1915. Certified check 10% payable to town required with bid. Plans on file in office of clerk.

OAKLAND, Cal.—Until July 17, 12 noon, bids will be received by Frank C. Merritt, city clerk, to construct concrete culverts and four manholes in certain culvert right of ways between Penman Ave. and Sutter St. 1911 Act. One-third of cost will be paid from General Fund. Certified check 10% payable to city required with bid. Plans on file in office of clerk. Walter Prickstad, city eng.

MILL VALLEY, Marin Co., Cal.—As previously reported, bids will be received July 15, 8:30 P. M., by Will Falley (249) to improve Summit Ave., Lowell Ave. and Cornelia St. and various other streets. Involving vitrified pipe sewer, hydraulic concrete manholes; lampholes; wye branches and lateral; hydraulic concrete retaining wall; arch culverts; hydraulic conduit Inlet. Bond Act 1915. Imp. Act 1911. This project involves approximately 210,000 sq. ft. asphaltic concrete and 40,000 sq. ft. hydraulic concrete. Certified check 10% payable to town of Mill Valley required with bid. Plans obtainable from clerk. F. H. Lacey, town engineer.

SANTA ROSA, Sonoma Co., Cal.—City council declares intention (1627) to improve Cleveland Ave. from Carrillo St. to Ridgeway Ave., involving grading; 4-inch macadam base pave with 3-inch asphaltic conc. surface in 1-course; hyd. cem. conc. curbs, gutters. 1911 Act. Bond Act 1915. Hearing Aug. 5. Ney L. Donovan, city clerk.

SAN JOSE, Santa Clara Co., Cal.—County Surveyor Robt. Chandler making surveys to grade and gravel Dale Drive, property owners having petitioned for the work.

SALINAS, Monterey Co., Cal.—Granite Construction Co., Watsonville, at \$589.10 awarded contract to surface Mud Flat Road and at \$3956 to surface San Miguel Canyon Road. W. A. Dontanville, Salinas, only other bidder at \$6886.30 and \$5766.80, respectively.

SAN BERNARDINO COUNTY, Cal.—Until July 30, 2 P. M., bids will be received by State Highway Commission to grade and surface with oil treated crushed gravel or stone, 9.5 miles between 1½ miles southwest of Dunn and Cornish Valley.

See call for bids under official proposal section in this issue.

SAN FRANCISCO—Until July 16, 2:30 P. M., bids will be received by S. J. Heater, secretary, Board of Public Works, to construct Castro, 17th and Market Sts. Traffic Improvement. Est. cost \$800. Certified check 10%, payable to clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall.

MONTEREY, Monterey Co., Cal.—Until July 15, 7 P. M., bids will be received by Clyde A. Dorsey, city clerk, (2977) to improve Harrison St. bet. Clay and High Sts., involving grading; paving with asph. conc. wearing surface 2 inches in thickness. Imp. Act 1911. Bond Act 1915. Certified check 10%, payable to city required with bid. Plans on file in office of clerk.

SAN BERNARDINO COUNTY, Cal.—Following bids received July 2, by State Highway Commission to grade and surface with oil treated crushed gravel or stone, 28.7 miles between 6 miles east of Amboy and 1½ miles east of Essex:

George Herz & Co., San Bernardino.....	\$507,402
New Mexico Const. Co., Albuquerque.....	579,917
J. C. Donovan & Son, Los Angeles.....	669,790

Bids held under advisement.

NEVADA COUNTY, Cal.—Geo. E. McDaniel, Marysville, at \$434 awarded contract by State Highway Commission to construct highway guard rails between Boca and Iceland.

FRESNO COUNTY, Cal.—Peninsula Paving Co., Standard Oil Bldg., San Francisco, at \$257,557 awarded contract by State Highway Commission to grade and pave with asphalt concrete 7.6 miles between Fowler Switch Canal and Pancher Creek.

SAN DIEGO COUNTY, Cal.—Sandier Pearson, Santa Monica, at \$338,287 awarded contract by State Highway Commission to pave with cement concrete 1.2 miles, between Vegas Creek and Pine Valley.

MARIPOSA COUNTY, Cal.—Until July 24, 2 P. M., bids will be received by C. H. Sweetser, district engineer, U. S. Bureau of Public Works, to grade 7.03 miles of Mariposa Grove Section of Wawona Route in Sierra National Forest, involving:

55.28 Acres clearing;
320,000 cu. yds. unclassified excavation;
1346 cu. yds. structural excavation;
94,765 sta. yds. overhauled;
7.95 miles finishing;
121 cu. yds. cement rubble masonry;
5950 lin. ft. corrugated metal pipe in place;
195 cu. yds. hand laid riprap;
Maintenance of detours (est. cost \$250);
0.5 mile moving existing fences.

Plans obtainable from above office on deposit of \$10, checks for same to be made payable to Federal Reserve Bank of San Francisco

MARIPOSA COUNTY, Calif.—Until July 24, 2 P. M., bids will be received by C. H. Sweetser, district engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, to grade Section B, Fish Camp-Pourmile of Route 47, Oakhurst National Forest Highway in Sierra National Forest, 2.648 miles in length, involving:

17.3 acres clearing;
85,240 cu. yds. unclassified excavation;
405 cu. yds. unclassified excavation for structures;
12,705 sta. yds. overhauled;
2,648 miles finish earth graded road;
34 cu. yds. cement rubble masonry;
1,420 lin. ft. corrug. galv. metal culvert pipe in place;
Maintenance of existing road and sections accepted for traffic, estimated cost, \$1500;

* 74 right-of-way monuments;
Plans obtainable from above office on deposit of \$10, checks for same to be made payable to Federal Reserve Bank of San Francisco.

NAPA, Napa Co., Calif.—Highway Builders, Ltd., San Francisco, at \$33,114.03 awarded contract by county supervisors for bituminous surfacing

on various roads. Complete list of bids follows:
Highway Builders, Ltd., \$33,114
George French, Jr., 33,574
Lee J. Immel, 34,835
Harold Smith, 34,989
L. C. Sedel, 35,955
A. Teichert & Son, 36,933
J. P. Holland, Inc., 42,117
J. E. Johnson, 46,870

SAN LUIS OBISPO, San Luis Obispo Co., Cal.—Irving L. Ryder, San Luis Obispo, at \$9,962.22 awarded contract by city council (322) to improve Garden, Pacific and Pismo Sts., involving grading; 6-in. hydraulic conc. pavement; hyd. cem. conc. curbs and sidewalks; part circle arch culverts; catch-basins.

STOCKTON, San Joaquin Co., Cal.—Until July 21, 11 A. M., bids will be received by Eugene D. Graham, clerk, to improve Bacon Island Road in Road Dist. No. 1. Certified check 10% payable to Chairman of Board of Supervisors required with bid. Plans obtainable from J. B. Manthey, county surveyor.

SHASTA COUNTY, Calif.—A. Teichert and Son, Sacramento, at \$27,759 submitted only bid to State Highway Commission to apply seal coat and bituminous surface treatment on 35.3 miles of highway, of which 15.3 miles lies between Laneside and north boundary and 17 miles between Montgomery Creek and the Haynes Ranch.

SAN MATEO COUNTY, Cal.—Following three low bids received July 2 by State Highway Commission to grade and pave with cement concrete 5.2 miles between South San Francisco and Burlingame:
Basich Bros. Const. Co., Title Ins. Bldg., Los Angeles, \$402,952
Hanrahan Co., San Francisco, 411,254
C. M. Morgan Paving Co., Los Angeles, 413,314

HUMBOLDT COUNTY, Calif.—Following bids received July 2 by State Highway Commission to grade and pave with cement concrete 0.6 mile between one-half mile south of Eureka and Eureka:
Englehart Paving & Const. Co., Eureka, \$22,043
Mercer-Fraser Const. Co., Eureka, 23,700
G. B. Galbraith, Petaluma, 27,195

OAKLAND, Cal.—Until July 14, 4:30 P. M., bids will be received by G. B. Hegardt, secretary, City Port Commission, 424 Oakland Bank Building, to furnish and deliver to Oakland Municipal Airport 5,000 cubic yards of quarry waste from second grade rock. Certified check 10% required with bid. Bond in full amount of contract price required of successful bidder. Specifications obtainable from secretary on deposit of \$5, returnable.

OAKLAND, Cal.—Until July 14, 4:30 P. M., bids will be received by G. B. Hegardt, secretary, City Port Commission, 424 Oakland Bank Building, for grading and paving with oil macadam roadways at rear of 9th Ave. Pier. Certified check 10% required with bid. Bond in full amount of contract price required of successful bidder. Specifications obtainable from secretary on deposit of \$5, returnable.

VALLEJO, Solano Co., Cal.—Until July 15, 11 A. M., bids will be received by Alf. E. Edgecombe, city clerk (171) to improve Indiana St. from Colusa to Amador St. involving grading; 5-in. cement concrete pavement; 6 ft. wide and 4 in. thick cement concrete sidewalks; 4-in. vitrified clay sewer; sewer lateral; cement concrete curbs and gutters. Imp. Act 1915. Certified check 10% payable to city required with bid. Plans obtainable from T. D. Kilkenny city engineer.

YUBA CITY, Sutter Co., Calif.—As previously reported, Basich Bros. Co., Title Insurance Bldg., Los Angeles, submitted low bid for concrete pavement, and J. E. Johnston, Stockton and Chico, for asphaltic pavement, to the directors of Joint Highway District No. 12, to improve sections of Woodland-Yuba City Cut-off between Knights Landing Ridge Cut in Yolo county and the Garden Highway, one-half mile west of Sutter in Sutter county, being sections 9.9 miles in length between Robbins in Sutter county and Garden Highway. Bids were taken on four types of pavement.

Approximately quantity of materials involved are: 36,000 cu. yds. excav. and subgrade; 17,000 tons crusher run base; 21,500 cu. yds. pavement. The total bid on each type of pavement follows, all bids being taken under advertisement until July 8:

Portland Cement Concrete Pavement on 4-in. Crusher Run Base
Engineer's estimate \$259,499
J. E. Johnston, Stockton, 235,824
Basich Bros. Co., Los Angeles, 236,521
C. W. Wood, Stockton, 243,307
M. J. Bevanda, Stockton, 252,337
N. M. Ball, Berkeley, 254,501
Fredrickson and Watson, Oakland, 258,823
J. F. Knapp, Oakland, 277,087
A. Teichert & Son, Sacramento, 284,435
Central Calif. Roads Co., Oakland, 285,096

Portland Cement Concrete Pavement on 4-in. Crusher Run Base Reinf.
Engineer's estimate \$286,969
Basich Bros. Co., 259,871
J. E. Johnston, 263,294
C. W. Wood, 274,678
M. J. Bevanda, 277,160
N. M. Ball, 282,271
Fredrickson & Watson, 284,293
J. F. Knapp, 299,063
A. Teichert & Son, 308,609
Hanrahan Company, 311,032
Central Calif. Roads Co., 312,566
Asphalt Concrete Pavement on 4-inch Crusher Run Base
Engineer's estimate \$245,209
J. E. Johnston, 205,982
A. Teichert & Son, 257,133
M. J. Bevanda, 257,769
Valley Paving & Const. Co., Vista, 258,644
Hanrahan Company, 274,670
Central Calif. Roads Co., 289,789
Asphalt Concrete Pavement on 5-inch Crusher Run Base
Engineer's estimate \$253,959
J. E. Johnston, 212,282
A. Teichert & Son, 265,338
M. J. Bevanda, 266,519
Valley Pav. & Const. Co., 268,794
Hanrahan Company, 285,170
Clark & Henery Co., S. F., 286,719
Central Calif. Roads Co., 295,029

SAN JOSE, Santa Clara Co., Cal.—Until July 14, 8 P. M., bids will be received by John J. Lynch, city clerk, (5135) to improve Julian St. between

NO NOT RISK AN EXPERIMENT

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Stockton and Morrison Aves., involving grading; pave with 2-in. asphaltic concrete wearing surface, 3½-in. asphaltic concrete foundation; cement concrete curbs, gutters and walks; 8-in. cement storm water sewer. Imp. Act 1911. Certified check 10% payable to city required with bid. Plans on file in office of clerk. Wm. Popp, city engineer.

SANTA ROSA, Sonoma Co., Cal.—Until Aug. 5, 5 P. M., bids will be received by Ney L. Donovan, city clerk, to improve Ridgeway Ave. from Mendocino Ave. to Cleveland Ave. (15-ft. wide). Certified check 10% payable to city required with bid. Specifications obtainable from city engineer.

MONO COUNTY, Cal.—Until July 16, 2 P. M., bids will be received by F. G. Sommer, district engineer, State Highway Commission to improve 8.8 miles between Mono and Lake and foot of Conway Grade, involving 1230 bbls. heavy fuel oil to be applied as a dust layer. Plans obtainable from above.

MENDOCINO COUNTY, Cal.—Until July 30, 2 P. M., bids will be received by State Highway Commission to grade and surface with untreated crushed gravel or stone and construct timber bridges on 2 miles between McDonald and Wendling.

See call for bids under official proposal section in this issue.

SAN FRANCISCO—Jas. T. Tobin, 46 Kearny St., at \$8,523 submitted low bid to Board of Public Works to improve Harrison St. bet. Second and Essex Sts., involving grade; armored conc. curbs; 2-course conc. sidewalks; 12-in. vit. clay pipe sewers with wyes; side sewers; brick manholes; vit. pipe culverts; concrete and asph. concrete pavements. Complete list of bids follows:

Jas. T. Tobin.....	\$ 8,523
E. J. Treacy.....	9,065
M. Rosenberg.....	9,470
M. J. Lynch.....	9,690
C. B. Eaton.....	10,862
Fay Imp. Co.....	11,361
Chas. L. Harney.....	11,942
Healy-Thibbitts Co.....	12,803

BAKERSFIELD, Kern Co., Calif.—City council declares intention (604) to construct concrete sidewalks in St. Imp. Dist. No. 604, 18th St. between Krue Street and point 132-ft. west of R St., 1911 Act. Hearing July 21. V. Van Riper, city clerk.

TRINITY COUNTY, Cal.—Until July 30, 2 P. M., bids will be received by State Highway Commission to grade 0.4 mile between westerly boundary and Burnt Ranch.

See call for bids under official proposal section in this issue.

EUREKA, Humboldt Co., Cal.—J. P. Holland, 1834 McKinnon Ave., San Francisco, at \$018 sq. ft. awarded contract by county supervisors to surface approximately 25 miles of county road with emulsified asphalt. Complete list of bids follows:

J. P. Holland, San Francisco.....	\$018
Mercer-Fraser Co., Eureka.....	.0181
Englehart Paving & Const. Co., Eureka.....	.021
Smith Bros. Co., Eureka.....	.0215
Highway Builders, Ltd., S. F.....	.023
Heafey-Moore Co., Oakland.....	.0236
L. C. Seidel, Oakland.....	.026

PLACER COUNTY, Cal.—Until July 30, 2 P. M., bids will be received by State Highway Commission to grade and pave with Portland cement concrete 1.7 miles through Lincoln.

See call for bids under official proposal section in this issue.

RIVERSIDE COUNTY, Cal.—Until July 30, 2 P. M., bids will be received by State Highway Commission to grade and surface with untreated crushed gravel or stone, 16.2 miles between Desert Center and 9½ miles west of Hlopinis Well.

See call for bids under official proposal section in this issue.

REDWOOD CITY, San Mateo Co., Cal.—Until July 21, 8 P. M., bids will be received by B. E. Myers, city clerk, (M-9) to improve Maple Street bet. Main Street and Bilers Addition, involving grading; 6-inch hydraulic cement concrete surface pavement; 3-inch broken stone base pavement; 1-inch cushion of sand between said surface and base pavement; hydraulic concrete cement curbs; 4-in. hydraulic cement concrete sidewalks; 2 hydraulic cement concrete storm water inlets; cement concrete gutters. Bond Act 1915. Improvement Act 1911. Certified check 10% payable to city required with bid. Plans on file in office of clerk. C. L. Dimmitt, city engineer.

SACRAMENTO COUNTY, Cal.—Following are three low bids received July 9 by State Highway Commission, to grade and pave with Portland cement concrete 2.6 miles between one mile south of Arno and Cosumnes River.

Fredrickson & Watson and Fredrickson Bros., Oakland.....	\$89,029
N. B. Ball, Berkeley.....	96,464
P. M. Morgan Paving Co., Los Angeles.....	99,973

REDWOOD CITY, San Mateo Co., Cal.—Until July 21, 8 P. M., bids will be received by B. E. Myers, city clerk, (M-3) to improve Chestnut St., between Heller and Stambaugh Sts., involving grading; 6-inch hydraulic cement concrete surface pavement; 3-inch broken stone base pavement; 1-inch cushion of sand between said surface and base pavement; cement concrete curbs, gutters, sidewalks. Bond Act 1915. Improvement Act 1911. Certified check 10% payable to city required with bid. Plans on file in office of clerk. C. L. Dimmitt, city engineer.

SANTA CRUZ, Santa Cruz Co., Cal.—Until July 23, 3 P. M., bids will be received by H. E. Miller, county clerk, to improve Section 2 of the Brown Valley Road, Section 1 of the Mt. Madonna Road and Section 1 of the Calabasas road in the Pajaro Road District. Plans obtainable from County Surveyor Lloyd Bowman on deposit of \$5, returnable.

MARTINEZ, Contra Costa Co., Cal.—Bids will be asked at once by

county supervisors to pave Crown Canyon road near San Ramon; estimated cost \$7000. Specifications obtainable from County Surveyor R. R. Arnold.

SAN MATEO, San Mateo Co., Cal.—Union Paving Co., Cal. Bldg., San Francisco, at \$37,682.10 awarded contract by city council (30-5) to improve Glendale Rd. from Hillsborough town limits to present pavement at intersection of Poplar Ave., portions of Edgewood Road and Fulton Road, involving grading; combined conc. curbs and gutters; 4-in. asph. conc. base pavement with 2-inch concrete surface; 6-inch vitrified clay pipe san. sewers; 4-in. vit. clay pipe lateral sewers; 12-inch concrete pipe storm water sewers and 2 circular concrete pipe catchbasins. Other bids: A. G. Icaisch, San Francisco, \$45,626.66; Fay Improvements Co., San Francisco, \$45,650.46.

RIVERSIDE COUNTY, Cal.—Following are three low bids received July 9 by State Highway Commission, to widen about 6.2 miles of existing roadbed between northerly boundary and 1 mile west of Beaumont.

Steel Finley, Santa Ana.....	\$34,402
Watson & Sutton, San Diego.....	37,582
Mattich Bros., Elsinore.....	38,533

YOLO COUNTY, Cal.—Following are three low bids received July 9 by State Highway Commission, to grade and pave with asphalt concrete about 5.8 miles between Bretona and Dunigan.

Jones and King, Hayward.....	\$129,575
A. Teichert and Son, Sacramento.....	133,215
Valley Paving and Construction Co., Visalia.....	144,271

LOS ANGELES COUNTY, Cal.—Following are 3 low bids received July 9 by State Highway Commission, to surface about 12.6 miles with bituminous macadam between 1.2 miles and 13.9 miles north of Castaic School.

Southwest Paving Co., Los Angeles.....	\$134,330
Gibbons and Reed, Glendale.....	139,420
McCray Co., Los Angeles.....	140,590

DEL NORTE COUNTY, Cal.—Following are three low bids received July 9 by State Highway Commission, to surface with oil treated gravel or stone (road mixed) about 12.7 miles between Southerly boundary and Wilson Creek.

Hemstreet and Bell, Marysville.....	\$88,405
Englehart Paving & Construction Co., Eureka.....	93,497
Heafey-Moore Co., Oakland.....	95,470

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BLACKSMITHING AND WELDING

Builders of Rosenberg Portable Car Unloaders

CREAR & BATES

57 Zoe St., bet. 3rd and 4th, off Brannan St.

Phone GAfield 4374

San Francisco

SAN DIEGO, Cal.—Until August 5, 2 P. M., bids will be received by State Department of Public Works, Division of Architecture, to install services at State Teachers' College, San Diego. The project involves furnishing of labor, materials and equipment, for installation of sewer, steam, water, fire protection, gas and storm drain services. Plans obtainable from above office on deposit of \$25, returnable.

See call for bids under official proposal section in this issue.

SIERRA COUNTY, Cal.—Until July 29, 2 P. M., bids will be received by C. H. Sweetser, district engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, to surface 8.58 miles of Sections C and D, Yuba Pass National Forest Highway, involving:

- 500 cu. yds. unclassified excavation;
- 8.58 miles fine grading subgrade and shoulders;
- 14,700 cu. yds. crushed rock surfacing;
- 1,700 cu. yds. crushed rock (supplemental);
- Provide and maintain water plant or plants (pump sum);
- 750 gals. watering;
- 150 right-of-way monuments.

Plans obtainable from engineer on deposit of \$10, returnable, checks for same to be made payable to Federal Reserve Bank of San Francisco.

SAN MATEO, San Mateo Co., Cal.—Until July 21, 8 P. M., bids will be received by E. W. Foster, city clerk, to improve 23rd and 24th Aves., Flores St., Florin and Isabelle Aves., involving grading; hydraulic concrete curb curbs, gutters, sidewalks; asphaltic concrete pavement; hydraulic cement concrete pipe storm water sewers; catchbasins; steel reinf. box culvert; ornamental street lighting system. Bond Act 1915. Imp. Act 1911. Certified check 10% payable to city required with bid. Plans on file in office of clerk. E. P. Wilsey, city manager.

SOLANO COUNTY, Cal.—Until July 21, 2 P. M., bids will be received by R. E. Pierce, district engineer, State Highway Commission, State Office Bldg., Sacramento, to construct property fences, move and reset property fences, install new gates and move pipe line between Creston and Vacaville.

See call for bids under official proposal section in this issue.

MARTINEZ, Contra Costa Co., Cal. Bids will be asked at once by county supervisors to pave two streets in Concord; estimated cost \$6600. Specifications obtainable from County Surveyor R. R. Arnold.

OFFICIAL PROPOSALS

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received at the office of the State Highway Engineer, Public Works Building, Sacramento, California, until 2 o'clock P. M. on July 30, 1930, at which time they will be publicly opened and read, for construction in accordance with the specifications therefor, to which special reference

is made, of portions of State Highways, as follows:

Trinity County, between Westerly Boundary and Burnt Ranch (II-TRI-26-C), portions about four-tenths (0.4) mile in length, to be graded.

Placer County, through Lincoln (III-Pla-3-A), about one and seven-tenths (1.7) miles in length, to be graded and paved with Portland cement concrete.

Mendocino County, between McDonald and Wendling (IV-Men-48-A,B), about two (2.0) miles in length, to be graded and surfaced with untreated crushed gravel or stone and timber bridges to be constructed.

Santa Barbara County, a reinforced concrete girder bridge across Nojoqui Creek, 7 1/4 miles south of Zaca (V-SB-2-D), composed of four 42'-6" spans on concrete bents and an abutment.

Riverside County, between Desert Center and nine and one-half miles west of Hopkins Well (VIII-Riv-64-B & C), about sixteen and two-tenths (16.2) miles in length, to be graded and surfaced with oil treated crushed gravel or stone.

San Bernardino County, between one and one-half miles southwest of Dunn and Cornise Valley (VIII-SBD-31-J), about nine and five-tenths (9.5) miles in length, to be graded and surfaced with oil treated crushed gravel or stone.

Plans may be seen, and forms of proposal bonds, contract and specification may be obtained at the said office, and they may be seen at the offices of the District Engineers at Los Angeles and San Francisco, and at the office of the District Engineer of the district in which the work is situated. The District Engineers' offices are located at Eureka, Redding, Sacramento, San Francisco, San Luis Obispo, Fresno, Los Angeles, San Bernardino and Bishop.

A representative from the district office will be available to accompany prospective bidders for an inspection of the work herein contemplated, and Contractors are urged to investigate the location, character and quantity of work to be done, with a representative of the Division of Highways. It is requested that arrangements for joint field inspection be made as far in advance as possible. Detailed information concerning the proposed work may be obtained from the district office.

No bid will be received unless it is made on a blank form furnished by the State Highway Engineer. The special attention of prospective bidders is called to the "Proposal Requirements and Conditions" annexed to the blank form of proposal, for full directions as to bidding, etc.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

DEPARTMENT OF PUBLIC WORKS,
DIVISION OF HIGHWAYS.

C. H. PURCELL,
State Highway Engineer.

Dated July 2, 1930.

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received by the Department of Public Works, Division of Highways, at the office of the District Engineer, 502 State Office Building, 10th and L Sts., Sacramento, California, until 2:00 o'clock P. M., on Monday, July 21, 1930,

at which time they will be publicly opened and read, for performing work as follows:

Solano County, between Creston and Vacaville, Road X, Sol-7, 8-C&A, property fences to be constructed, moved and reset, new gates installed, and pipeline to be moved.

Plans may be seen, and forms of proposal, bonds, contract and specifications may be obtained at the above address.

No bid will be received unless it is made on a proposal form furnished by the District Engineer. Each bid must be accompanied by cash, or a certified check made payable to the Director of Public Works, for an amount equal to ten (10) per cent of the amount bid, such guaranty to be forfeited should the bidder to whom the contract is awarded fail to enter into the contract.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

C. H. PURCELL,

State Highway Engineer.

By R. E. PIERCE,

District Engineer, Dist. X.

Dated: July 7, 1930.

NOTICE TO CONTRACTORS

STATE OFFICE BUILDING AT
LOS ANGELES

SEALED BIDS will be received by Geo. B. McDougall, State Architect, at the Office of the Division of Architecture, 1025 Associated Realty Building, Los Angeles, California, up to 2 o'clock P. M., Tuesday, August 5, 1930, thereafter on said day to be publicly opened and read for the erection and completion of the State Office Building at Los Angeles, California, in accordance with plans and specifications therefor. Plans and Specifications were prepared by John C. Austin, Architect, of the firm of John C. Austin and Frederick M. Ashley, Architects.

The State Office Building at Los Angeles will be a limit height Class A structure faced with granite and terra cotta. It will be located at the new Civic Center on property bounded by First, Spring, Broadway and Court Streets, all in the City and County of Los Angeles, California.

Separate bids will be entertained for the following segregated parts of the work and combinations thereof as listed:

1. General Work and Alternates.
2. Granite Work and Alternates.
3. Structural Steel Fabrication.
4. Structural Steel Erection.
5. Structural Steel (Fabrication and erection).
6. Electrical Work and Alternates.
7. Elevators and Alternates.
8. Plumbing Work and Alternates.
9. Heating Work and Alternates.
10. Ventilation Work and Alternates.
11. Heating and Ventilation Work and Alternates.
12. Plumbing, Heating and Ventilation Work and Alternates.

The "General Work" bid will embrace all branches of work other than segregated above. Contractors shall state clearly in their application the particular segregation of work that they desire plans for.

Plans and specifications are on file for examination in the office of the Division of Architecture, 1025 Associated Realty Building, Los Angeles, and at the principal California Cities Builders' Exchange Offices.

Plans, specifications and proposal forms may be secured by qualified

licensed Contractors or by Contractors who will qualify by furnishing a verified statement of experience and financial condition as required by the provisions of Chapter 644, Statutes 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Questionnaire forms may be secured from the Division of Architecture, either in Los Angeles or Sacramento.

Bids will not be accepted from a Contractor to whom proposal form has not been issued and all bids must be on proposal forms supplied by the State.

Application for plans shall be made to the Sacramento Office of the Division of Architecture, Public Works Building, Sacramento, and shall be accompanied by a deposit of Fifty (\$50.00) dollars. Check shall be made payable to the Department of Public Works, Division of Architecture. Deposit will be returned upon receipt of the set in good condition, at Sacramento Office of the Division within 30 days after opening bids, otherwise it will be forfeited to the State.

All bids must be filed on or before the time heretofore stated and in accordance with the "Rules for Bidding" accompanying the proposed form.

No bid will be considered unless cash, a bidder's bond made payable to the State of California, or a certified check made payable to the "State Engineer, Department of Public Works," in the sum of at least ten per centum (10%) of the amount of the bid is enclosed with the bid.

The Division of Architecture, State Department of Public Works, reserves the right to reject any or all bids and to waive any informality in any bid received.

STATE DEPARTMENT OF PUBLIC WORKS,

DIVISION OF ARCHITECTURE,

GEO. B. McDOUGALL,

State Architect.

B. B. MEEK,

Director of Public Works.

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received at the office of the State Highway Engineer, Public Works Building, Sacramento, California, until 2 o'clock P. M., on August 6, 1930, at which time they will be publicly opened and read, for construction in accordance with the specifications therefor, to which special reference is made, of portions of State Highway, as follows:

Los Angeles County, between Santa Clara River and Castale School (VII-A-4-A), about four and three-tenths (4.3) miles in length, to be widened with bituminous treated rock borders.

San Diego County, between Balboa Avenue and Torrey Pines Road (VII-S-D-2-E), about five and four-tenths (5.4) miles in length, to be paved with Portland cement concrete.

San Bernardino County, three concrete bridges east of Ontario (VIII-S-B-18-B), the first, at Station 43+01.5, consisting of three 8' 0" slab spans, the second at Station 107+93, consisting of two 14' 3" slab spans; and the third, at Station 119+04.7, consisting of 15' 0" slab span; to be

partially reconstructed and widened and the approaches to be widened and paved with asphalt concrete.

Monro County, between Sonora Junction and 4 miles south of Coleville (IX-Mon-23-K), about twelve and nine-tenths (12.9) miles in length, to be graded.

Plans may be seen, and forms of proposal, bonds, contract and specifications may be obtained at the said office, and they may be seen at the offices of the District Engineers at Los Angeles and San Francisco, and at the office of the District Engineer of the district in which the work is situated. The District Engineer's offices are located at Eureka, Redding, Sacramento, San Francisco, San Luis Obispo, Fresno, Los Angeles, San Bernardino and Bishop.

A representative from the district office will be available to accompany prospective bidders for an inspection of the work herein contemplated, and Contractors are urged to investigate the location, character and quantity of work to be done, with a representative of the Division of Highways. It is requested that arrangements for joint field inspection be made as far in advance as possible. Detailed information concerning the proposed work may be obtained from the district office.

No bid will be received unless it is made on a blank form furnished by the State Highway Engineer. The special attention of prospective bidders is called to the "Proposal Requirements and Conditions" annexed to the blank form of proposal, for full directions as to bidding, etc.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

DEPARTMENT OF PUBLIC WORKS, DIVISION OF HIGHWAYS.

C. H. PURCELL,

State Highway Engineer.

Dated July 9, 1930.

NEW BUILDING LAW BEING FRAMED FOR ALAMEDA

A new building ordinance for the city of Alameda will be presented to the city council by the City Planning Commissioner within 60 days.

A feature of the ordinance will be a section providing a \$20 fee in connection with filing rezoning petitions, the purpose of which, according to its sponsors, is to discourage indiscriminate rezoning movements.

In connection with the proposed measure, Councilmen W. H. Henning and Al Latham explained that the council has been harassed by real estate men and property owners with petitions to rezone their property when they were without definite plans for improvement.

In many cases, according to Henning and Latham, the rezoning petitions were filed by dealers or owners to influence prospective purchasers of property, and when the deal collapsed no building would be erected, and in a few months the owners would ask that the property be rezoned to its former classification.

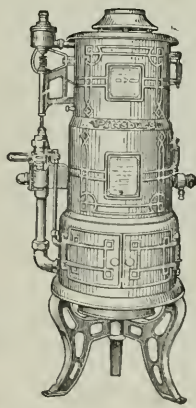
At the same time City Attorney Silver was instructed to ascertain the legality of an ordinance requiring property owners to give bond to carry out improvements designated in rezoning petitions.

MANY BUILDINGS CONDEMNED AT SACRAMENTO

The effects of a quiet drive that has been in progress for several months, to do away with disreputable buildings in Sacramento, are made public by Fire Chief M. J. Dunphy.

A total of 62 houses have been condemned since January 1, and these have been ordered wrecked by owners of the buildings at the instigation of the fire department.

The results of this drive are worth approximately \$100,000 to Sacramento, according to Dunphy, who said that where buildings have been wrecked new ones are being erected and the general improvement is of great value.



A "Pittsburg" Automatic Water Heater installed in the Home indicates high quality throughout.

Recommended and specified by all the leading architects, plumbers and builders.

Consider the high merit of the Pittsburg coupled with "Pittsburg Perfect Service."

"Hot water quick as a wink."

Pittsburg Water Heater Co.

Makers of "Pittsburg Automatic"—"Bungalow Automatic"

Storage Systems and "Lyon" Tank Water Heaters.

309 13th Street, Oakland

478 Sutter St., San Francisco

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Contracts Awarded

Liens, Acceptances, Etc.

BUILDING PERMITS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
853	Standard	Owner	4500
854	Elsa	Monaghan	4000
855	Ericsen	Engen	1300
856	Concordia	Barrett	10000
857	McDonald	Associated	12000
858	Bjorkman	Owner	4000
859	Lea	Owner	2000
860	Quinn	Owner	4000
861	Shutoreh	Owner	3500
862	Fisher	Owner	7000
863	Granfields	Cone	25000
864	Lent	Zinkand	2000
865	Meads	Owner	2500
866	Munroe	Owner	1000
867	Van Herrick	McDonald	100000
868	Enterprise	Owner	4000
869	Ingerman	Owner	4000
870	Rassmussen	Owner	40000
871	Steueron	Owner	4000
872	Cune	McCarthy	9000
873	Chaquette	Magill	2500
874	Chaquette	Magill	2500
875	Coghlan	Larsen	1500
876	Deering	Burgett	3900

DWELLING
(853) E 29th AVE. 250 S Rivera; 1-story and basement frame dwelling.
Owner and Builder—Standard Building Co., 218 Castenada.
Architect—None. \$4500

DWELLING
(854) W CHENERY 225 N Randall; one-story and basement frame dwelling.
Owner—Simon Elsa, 358 Clipper St.
Architect—None.
Contractor—Jas. Monaghan, 880 Guerrero St. \$3000

ALTERATIONS
(855) 347 FIFTH AVE.; alterations to dwelling.
Owner—Anna O. Ericsen, 347 5th Ave.
Architect—None.
Contractor—Louis L. Engen, 79 Prosper.
\$1800

ALTERATIONS
(856) 1142 VAN NESS AVE.; alterations to club building.
Owner—Concordia Club, 1142 Van Ness Avenue.
Architect—Hyman & Appleton, Foxcroft Bldg.
Contractor—Barrett & Hilp, 918 Harrison St. \$10,000

ALTERATIONS
(857) SW VAN NESS AVE. and Lombard St.; alterations to auto supply station.
Owner—Mary C. McDonald, 892 Ashbury St.
Architect—Masten & Hurd, 210 Post.
Contractor—Associated Oil Co., 79 New Montgomery St. \$12,000

DWELLING
(858) NW LISBON 150 N E Russia; one-story and basement frame dwelling.
Owner—V. Bjorkmann, 3845 Mission.
Architect—None. \$4000

ALTERATIONS
(859) 4125 KIRKHAM ST.; alterations to dwelling for (2) apts.
Owner—S. M. Lea, 1255 Vicente St.
Architect—None. \$2000

DWELLING
(860) N 17th ST. 81 W Ord; two-story and basement frame dwelling.
Owners—A. and B. Quinn, 229 Dolores.
Architect—None. \$4000

APARTMENTS
(861) 3 KANSAS ST.; three-story & basement frame (3) apts.
Owner—G. Shutoreh, 1047 Kansas St.
Plans by G. Goodshinkoff, P. O. Box 48, Bryte, Calif. \$3500

DWELLING
(862) W NOE ST. 105 S 24th St.; 2-story and basement frame dwelling.
Owner—P. C. Fisher, 1118 Noe St.
Plans by Owner. \$7000

SERVICE STATION
(863) INTERSECTION OTIS ST. and Mission Street; one-story concrete super-service station.
Owner—Granfields, Inc., 12th St. and Howard St.
Architect—Blaine & Olsen, 232 Kearny Street.

Contractor—W. C. Cone, 826 Crocker Bldg. \$25,000

RESIDENCE
(864) N PACIFIC 243 W Pierce; two-story & basement and attic frame residence.
Owner—Mrs. E. Lent, Balboa Bldg.
Architect—E. J. Osborne, Balboa Bldg.
Contractor—Ed Zinkand & Son, 667 36th Ave. \$20,000

ALTERATIONS
(865) 24 SIXTH ST.; alterations to restaurant for oven.
Owner—Meads, Inc., 24 6th St.
Architect—None. \$2500

ALTERATIONS
(866) 2400 MISSION ST.; alterations to store windows.
Owner—C. A. Munroe, 2400 Mission St.
Architect—None. \$1000

APARTMENTS
(867) N VALLEJO 158 W Franklin; six-story and (2) basement concrete (48) apartments.
Owner—W. Van Herrick, 50 Laguna.
Architect—J. G. Little Co., 251 Kearny Street. \$100,000

ALTERATIONS & ADDITIONS
(868) 1164 MISSION ST.; alterations and additions to building; install cranes and elevators.
Owner—Enterprise Electric Co., 1164 Mission St.
Architect—G. De Colmesnil, 1016 Nevada Bank Bldg.

Contractor—McDonald and Kahn, Financial Center Bldg. \$10,000

DWELLING
(869) E 26th AVE. 182 N Rivera; 1-story and basement frame dwelling.
Owner—C. Ingerman, 2395 20th Ave.
Architect—None.

APARTMENTS
(870) NW DIVISADERO ST. and Jefferson, three-story and basement frame (15) apts.
Owner—V. Rassmussen, 2390 Francisco Street.
Architect—Irvine & Ebbets, 72 New Montgomery St. \$40,000

DWELLING
(871) N VALLEY 255 E Diamond; 1-story and basement frame dwelling.
Owner—Stoneson Bros. & Thorinsson, 279 Yerba Buena Ave.
Architect—C. F. Strothoff, 2274 15th Street. \$1000

STORE & DWELLING
(871) N OCEAN AVE. 132 E Keystone Way; one-story and basement store and dwelling.
Owner and Builder—Fernando Nelson & Sons, Inc., 2 West Portal Ave.
Architect—None. \$5000

DWELLING
(872) N JUDAH ST. 32 E 12th Ave.; two-story and basement frame dwelling.
Architect—None.
Contractor—J. E. McCarthy, 1342 Funston Ave. \$9000

STORE
(873) E ARGUELLO 75 N McAllister; one-story frame store.
Owner—C. A. Chaquette, 185 19th Ave.
Architect—None.
Contractor—C. T. Magill, 185 19th Ave. \$2500

STORE
(874) N McALLISTER 146 W Baker; one-story frame store.
Owner—C. A. Chaquette, 185 19th Ave.
Architect—None.
Contractor—C. T. Magill, 185 19th Ave. \$2500

ALTERATIONS
(875) 2813 SCOTT ST.; alterations to residence.
Owner—J. P. Coghlan, 2813 Scott St.
Architect—None.
Contractor—H. H. Larsen Co., 64 So. Park St. \$1500

ALTERATIONS
(876) 2709 LARKIN ST.; alterations to dwelling.
Owner—Mrs. F. Deering, 2709 Larkin Street.
Architect—None.
Contractor—O. L. Burritt, R. F. D. Box 77D, Selby Lane, Redwood City. \$3900

BUILDING CONTRACTS

San Francisco County

No.	Owner	Contractor	Amt.
138	P G & E Co	Minkel	9791
139	Same	MacGruer	7623
140	Greenwich	Weaver	3102
141	Fisher	Larson	8750
142	Koblin	Amators	7500

Capital City Title Company

J. C. PALEN
Manager

914 Seventh Street

Sacramento - California

143 Tay	Vogt	7199
144 Archer	Hamill	3628

WHIRING

(133) COR 15th and Shotwell Sts.; electrical wiring for San Francisco service group office building. Owner—Pacific Gas & Electric Co., 445 Sutter St.

Architect—None.

Contractor—Minkel & Lucas, 1535 Polson Street.

Filed July 3, '30. Dated June 25, '30.

Monthly payments of 75%
Usual 35 days 25%

TOTAL COST, \$7971

Bond, \$7971. Sureties, Massachusetts Bonding & Ins. Co. Limit, as required. Plans and Spec. filed.

LATHING, ETC.

(139) 23rd St. AND LOUISIANA; lathing, furring and plastering for new switch house.

Owner—Pacific Gas & Electric Co., 445 Sutter St.

Architect—None.

Contractor—MacGruer & Co., 266 Tehama Street.

Filed July 3, '30. Dated June 18, '30.

On completion 75%
TOTAL COST, \$7628

Bond, \$7628. Sureties, Pacific Indemnity Co. Limit, 60 days. Plans and Spec. filed.

ALTERATIONS

(140) SW GREENWICH and Leavenworth Sts.; alterations to building.

Owner—Greenwich Terrace Household Association.

Architect—None.

Contractor—Charles Weaver, 365 26th Avenue.

Filed July 3, '30. Dated, July 1, '30.

Completion of first coat \$1000
Completion of work 1000

90 days after completion 1102
TOTAL COST, \$3102

Bond, \$1600. Sureties, The Fidelity & Casualty Co. of N. Y.

RESIDENCE

(141) W NOE 105 S Twenty-fourth. All work for two-story and basement frame residence.

Owner—Mrs. Myrtle and P. C. Fisher, Plans by P. C. Fisher, 1118 Noe St., San Francisco.

Contractor—A. R. Larson, 2595 Mission St., San Francisco.

Filed July 8, '30. Dated July 7, '30.

Roofing Completed \$2195
Brown coated 2195

Completed and accepted 2195
Usual 35 days 2195

TOTAL COST, \$5780

Bond, \$5780. Surety, Commercial Casualty Insurance Co. Limit, 90 days. Forfeit, none. Plans and specifications filed.

DWELLINGS

(142) N CIRARD and Olmstead NW 95 NE 30 ptn Lots 12 and 13 Blk 11 Paul Tract Hd. Assn.; all work on two 1-story frame dwellings.

Owner—John Koblin and Amalia Belsky.

Architect—None.

Contractor—Frank Amatore, 1392-A Hampshire St.

Filed July 8, '30. Dated July 1, '30.

Deed of trust on property \$1750 00
Returned 1437 50

Brown coated 1437 50
Completed 1437 50

Usual 35 days 1437 50
TOTAL COST, \$7500 00

ALTERATIONS

(143) NE EIGHTH and Natoma Sts.; all work for alterations and additions.

Owner—Tay Holbrook, Inc., 165 8th St. Architect—J. E. Krafft & Sons, Pheasant Bldg.

Contractor—Vogt & Davidson, Ltd.,

185 Stevenson St.

Filed July 9, '30. Dated July 7, '30.

Steel frame up and riveted door openings with doors completed and new sidewalks

done \$2394.75
Completed and accepted 3600.00

Usual 35 days 1738.25
TOTAL COST, \$7793.00

Bond, \$3595.50. Sureties, New Amsterdam Casualty Co. Forfeit \$10 per day. Limit, Aug. 29, 1930. Plans and Spec. filed.

FLATS

(144) 3032 MARKET ST.; completion of frame flats.

Owners—M. J. and Wm. Archer. Architect—None.

Contractor—Thos. Hamill, Inc., 6140 Geary St.

Filed July 9, '30. Dated June 30, '30.

Partitions 1st and 2nd floors set \$924.50
Plastered 924.50

Completed and accepted 924.50
Usual 35 days 924.50

TOTAL COST, \$3693
Limit, 90 days.

COMPLETION NOTICES**San Francisco County**

Recorded Accepted

July 8, 1930—SE LINCOLN Way and Seventeenth Ave E 32-6xS

100, W O and Thyra I Lang to whom it may concern. June 30, 1930

July 8, 1930—E TWENTY-SECOND Ave 200 S Vicente E 100x E 120 and

Lots 28 to 33 Blk 2947-A, Map Sub No. 4, Miraloma Park. Meyer Bros to whom it may concern. July 8, 1930

July 8, 1930—N MANGELS Ave 275 E Foerster St. G V and A M Godin to whom it may concern. July 8, 1930

July 7, 1930—SW SAGAMORE AND Plymouth Ave William and Joseph Wolf to James J. Irwin. March 15, 1930

July 5, 1930—LOT 31 map Lyon and Hoag Subdiv Ashbury Terrace, Jos A Lunny to M C Rench. July 3, 1930

July 3, 1930—NE TWENTY-SIXTH and York. John Lambros to Frank Amatore. July 3, 1930

July 2, 1930—S SURREY 173-104 W Lippard. H J Ohlsen to A H Ohlsen. July 2, 1930

July 3, 1930—S MARINA BLVD 359.656 W Fillmore W 45 S 73 251 S 55° 50' 14" E 22.463 N 86° 36' E 25.754 N 91.535. George W Newsom to Henry Erickson. July 2, 1930

July 3, 1930—SE REVERE AVE & Lane. J Brokenshire to A R Siggs. July 2, 1930

July 3, 1930—NE TWENTY-SECOND Ave 50 N Moraga 25x82-6 J S McDonough to whom it may concern. July 2, 1930

July 3, 1930—E DARIEN Way 155 N Kenwood Way Blk 2374 Mt. Davidson Manor. A M Samuelson to whom it may concern. July 3, 1930

July 3, 1930—E DARIEN Way 200 N Kenwood Way Blk 3274 Mount Davidson Manor. A M Samuelson to whom it may concern. July 3, 1930

July 3, 1930—3515 PACIFIC AVE. E T Ward to D L Bienfeld. June 27, 1930

July 3, 1930—NE PERSIA AVE 75 NE Prague NW 25 x NE 100 Blk 90, Excel Hd Assn. Lorenzo Besio to whom it may concern. July 1, 1930

July 3, 1930—E 16th Ave 400 S Taraval St. A C Johnson to whom it may concern. July 3, 1930

July 3, 1930—N PALOU AVE 200 E Newhall St 25x100. P and R Silvestri to E Tuomisto. July 2, 1930

July 2, 1930—W32nd Ave 200 S Judah No 1435 32nd Ave. Henry K Chidress to whom it may concern. July 2, 1930

July 2, 1930—S CHESTNUT 192-6 E Scott St E 27-6 x S 137-6. Urban Properties Co to D L Bienfeld. June 26, 1930

July 2, 1930—PTN LOTS 26 and 27 Blk 3275 map Mt Davidson Manor as follows NE Darien Way dist

NW 18 from most sly cor lot 26 SE 42 NE 90-894 NW 42-006 SW 90-258. Vernon E Perry to Lang Realty Co. June 25, 1930

July 2, 1930—SE LINCOLN Way & 17th Ave E 32-6 x S 100. R D Lang to whom it may concern. June 30, 1930

July 2, 1930—E PENNSYLVANIA St 250 S 19th St S 50 x E 160. Realty Imp Co Ltd to R F Cassidy Co. July 2, 1930

July 3, 1930—W EINEHURST Way 153-175 N Kenwood Way N 40 W 74-871 S 36-945 E 73-012. N E Johnson to whom it may concern. July 2, 1930

July 2, 1930—E 25th AVE 125 South Kirkham S 25 x 120. O E Mittelstaedt to C Blincoe. June 28, 1930

July 2, 1930—W 25th AVE 125 and 150 N Santiago N 25 x W 120. Martin Smith to whom it may concern. July 2, 1930

July 2, 1930—S KIRKHAM St and SW 17th AVE S 29 x W 82-6. M & N Costello to whom it may concern. July 2, 1930

July 1, 1930—S 28th AVE 203 E Sanchez E 25-3 x S 114. Marcella and James R Nullane to whom it may concern. July 3, 1930

July 1, 1930—E UTAH 176 N 18th 25x100. V Berni to Thos R Shorman. June 30, 1930

LIENS FILED**San Francisco County**

Recorded Amount

July 5, 1930—S CLEMENT St 100 E 16th Ave W 100 x S 70 E 44-6% SE 2-6% E 55 N 72-6. R A Roche vs A G Isaacs Plastering Co. \$599.50

July 5, 1930—S CLEMENT St 100 E 16th Ave W 100 x S 70 E 44-6% SE 2-6% E 55 N 72-6. Wm Flitzgerald, G Bedbury, M Sala and J Sullivan vs R Roche, A G Plastering Co, J R and L L Johnson. \$872

July 3, 1930—S FULTON 31-3 W Lyon N 25 x S 100 W 46 609. Oscar Lawlor vs Maria, Jane Doe and Mary Roc Leyva. \$412

July 2, 1930—NE POLK and Turk Sts N 85 x E 85. A W Stoneback vs Haley Bros, V E, V I and V C Haley. \$1240

July 1, 1930—NE TURK and Polk N 85 x E 85. Folsom St Iron Works Inc vs V E and V C Haley, Haley Brothers. \$624

RELEASE OF LIENS**San Francisco County**

Recorded Amount

July 3, 1930—SW PERSIA AVE 75 NW Prague NW 25xSW 100 Blk 91, Excel Hd. Assn. James D Lee, P J Rudenko, Alex Droblin, D Vannucci, Frank Bartallini (as The Light Shop) to R N Gibson and Floyd C Frank.

BUILDING PERMITS

Alameda County

812	Scott	Cartwright	10000
844	Lesser	Kuchar	1500
845	Athens	Dyer	10000
846	Westlake	Robinson	2000
847	Gale	Owner	1000
848	Jennings	Severns	3000
849	Rettig	Bochner	1340
850	Smith	Home	1000
851	Harlan	Nickelson	2800
852	Duchell	Owner	44000
853	Gest	Owner	6000
854	Griffith	Owner	5000
855	Saake	Owner	2000
856	Keachen	Owner	11000
857	Forbes	Owner	1950
858	Standard	Owner	1000
859	Standard	Owner	3000
860	East Bay	Owner	6000
861	Kautenberg	Owner	5000
862	Murch	Leard	1000
863	Blumel	Sullivan	4000
864	Buddhist	Owner	7000
865	Independent	Owner	3500
866	Johanson	Owner	4100
867	Same	Same	4100
868	Same	Same	4100
869	Lance	Anderson	1600

ALTERATIONS

(843) 2327 WARRING ST., **BERKELEY**; alterations.
Owner—Alpha Chapter, Theta Upsilon.
Architect—F. W. Dakin, 625 Market St., San Francisco.
Contractor—G. R. Moran, 1040 Fulton St., San Francisco. \$10,000

ADDITION

(844) 47th BLVD. WAY, **OAKLAND**; addition.
Owner—J. H. Lesser, 476 Blvd. Way, Oakland.
Architect—None.
Contractor—S. Kulchar Co. \$1500

ALTERATIONS

(845) W. CLAY ST. bet. 12th and 13th Sts., **OAKLAND**; alterations.
Owner—Athens Athletic Club, 13th & Clay Sts., Oakland.
Architect—John J. Donovan, 19th and Broadway, Oakland.
Contractor—Dyer Construction Co., 1924 Broadway, Oakland. \$10,000

ADDITION

(846) 2306 EIGHTH AVE., **OAKLAND**; addition.
Owner—Mrs. Westlake, 2300 8th Ave., Oakland.
Architect—None.
Contractor—B. H. Robinson, 5410 Walnut St., Oakland. \$2000

ADDITION

(847) 775 58th ST., **OAKLAND**; addition.
Owner—B. M. Gale, 776 58th St., Oakland.
Architect—None. \$1000

ALTERATIONS

(848) NW COR. SANTA CLARA and Grand Ave., **OAKLAND**; alterations.
Owner—R. Jennings, 178 Grand Ave., Oakland.
Architect—None.
Contractor—L. Severns 178 Grand Ave., Oakland. \$3000

REPAIRS

(849) 2220 E 21st ST., **OAKLAND**; fire repairs.
Owner—Mary Nelson Rettig, 2220 E 21st St., Oakland.
Architect—None.
Contractor—C. F. Bochner, 1918 Prince St., Berkeley. \$1340

ALTERATIONS

(850) 1744 TELEGRAPH AVE., **OAKLAND**; alterations.
Owner—Smith Bros., 1742 Telegraph Ave., Oakland.

Architect—None.

Contractor—Home Mfg. Co., 552 Bran-
nan St., San Francisco. \$1000

RESIDENCE

(851) NO. 1109 STERLING AVE., **BERKELEY**. Two-story 3-room 1-family frame residence.
Owner—E. Harlan.
Architect—Frank L. Ludwig, 1 Hill Road, Berkeley.
Contractor—A. Nickelson, 2022 Dwight Way, Berkeley. \$2800

DWELLING

(852) 3432 GUIDO RD., **OAKLAND**; one-story 6-room dwelling and 1-story garage.
Owner and Builder—E. L. Dashiell, 1665 76th Ave., Oakland.
Architect—None. \$4400

WAREHOUSE

(853) W. MAGNOLIA ST. 100 N 24th St., **OAKLAND**; one-story brick and concrete warehouse.
Owner and Builder—G. M. Gest, 503 Marke St., San Francisco.
Architect—None. \$6000

DWELLING

(854) E 161st AVE. 56 N Birch St., **OAKLAND**; one-story five-room dwelling.
Owner and Builder—C. W. Griffith, 1427 87th Ave., Oakland.
Architect—None. \$3000

REPAIRS

(855) 4016 FOOTHILL BLVD., **OAKLAND**; fire repairs.
Owner and Builder—E. J. Saake, 1533 Clay St., Oakland.
Architect—None. \$2000

RESIDENCE

(856) 2312 ELLSWORTH ST., **BERKELEY**; two-story 14-room 6-family class C residence.
Owner and Builder—J. L. Keachen, 2310 Ellsworth St., Berkeley.
Plans by Owner. \$11,000

ADDITION

(857) 3155 E 27th STREET, **OAKLAND**; addition.
Owner and Builder—A. J. Forbes.
Architect—None. \$1950

SERVICE STATION

(858) NV COR. 19th and FRANKLIN STS., **OAKLAND**; one-story tie service station.
Owner and Builder—Standard Oil Co.
Architect—None. \$1000

SERVICE STATION

(859) NV COR. 19th and FRANKLIN STS., **OAKLAND**; one-story tie service station.
Owner and Builder—Standard Oil Co.
Architect—None. \$3000

PUMPING PLANT

(860) NO. 2113 VINE ST., **BERKELEY**. One-story 1-room pumping plant.
Owner—East Bay Municipal Utility District, 512 16th St., Oakland.
Architect—None. \$6000

DWELLING

(861) No. 910 BRIDGE ROAD, **SAN LEANDRO**. Six-room frame and stucco dwelling.
Owner—V. A. Kautenberg, 910 Bridge Road, San Leandro.
Architect—None. \$5000

ALTERATIONS

(862) NO. 132 DUTTON AVE., **SAN LEANDRO**. Alter dwelling.
Owner—Mrs. M. A. Murch, Cor. Oaks and Maple Court, San Leandro.
Architect—None.
Contractor—I. L. Leard, 525 Estudillo St., San Leandro. \$1000

DWELLING

(863) E 47th AVE. opp Thompson St., **OAKLAND**; 1-story 5-room dwelling.
Owner—Mr. and Mrs. E. Blumel, Oakland.
Architect—None.
Contractor—Sullivan & Sullivan, 2653 Best Ave., Oakland. \$4000

SCHOOL & HOME

(864) S SIXTH ST. 100 E Jackson St., **OAKLAND**; two-story 13-room brick and concrete school and home.
Owner and Builder—The Buddhist Church of Oakland, 1561 Laguna St., San Francisco.
Architect—None. \$7000

SHOP

(865) W PINE ST. 250 N 8th Street, **OAKLAND**; one-story steel shop.
Owner and Builder—Independent Iron Works, 1324 Chase St., Oakland.
Architect—None. \$3500

DWELLING

(866) 2830 73rd AVE., **OAKLAND**; one-story 5-room dwelling and 1-story garage.
Owner and Builder—K. A. Johanson, 2832 76th Ave., Oakland.
Architect—None. \$4100

DWELLING

(867) 7321 NEY AVE., **OAKLAND**; one-story 5-room dwelling and 1-story garage.
Owner and Builder—K. A. Johanson, 2832 76th Ave., Oakland.
Architect—None. \$4100

DWELLING

(868) 2824 73rd AVE., **OAKLAND**; one-story 5-room dwelling and garage.
Owner and Builder—K. A. Johanson, 2832 76th Ave., Oakland.
Architect—None. \$4100

DWELLING

(869) E 24th AVE. 150 NE 14th St., **OAKLAND**; one-story three-room dwelling.
Owner—Lenora T. Lance, 1420 24th Ave., Oakland.
Architect—None.
Contractor—George F. Anderson, 1521 51st Ave., Oakland. \$1600

BUILDING CONTRACTS

Alameda County

No.	Owner	Contractor	Amt.
116	Gottfried	Anderson	5829
117	U. of C.	Sheldon	19544
118	Jones	Jensen	13646
119	Farmer	Wendt	2852
122	Vellance	Weeks	250
123	Magnin	Heyer	256478
124	Regents	Symon	100

RESIDENCE

LOT 392 BLK U, Fernside Tract, Alameda. All work for residence.
Owner—A. L. Gottfried, 5434 California St., San Francisco.
Plans by Contractor.
Contractor—Walter H. Anderson, 1014 Doris Court, Alameda.
Filed July 1, '30. Dated June 19, '30.
Frame up \$1457.25
Rough plastered 1457.25
Completion notice filed 1457.25
Usual 35 days 1457.25
TOTAL COST, \$5829.00
Bond, none. Limit, 90 days. Forfeit, \$1.00 per day. Plans and specifications filed.

EQUIPMENT

(117) GIANNINI HALL, Campus of University of California, Berkeley. All work for installing laboratory equipment and furniture.

Owner—Regents of the University of California, Berkeley.
 Architect—W. P. Stephenson, University of California, Berkeley.
 Contractor—E. H. Sheldon & Co., P. O. Box 226, Corte Madera.
 Filed June 30, '30. Dated June 24, '30.
 On 1st of each month.....75%
 Usual 35 days.....Balance
TOTAL COST, \$19,544
 Bonds (2) Labor and material, \$11,000; performance, \$10,000. Surety, Royal Indemnity Co. Limit, 60 days. Forfeit, \$25 per day. Plans and specifications filed.

RESIDENCE

(118) SHERIDAN AVE., Piedmont.
 All work for two-story and basement frame and stucco residence and garage.
 Owner—Mrs. Bert R. Jones and Bert M. Jones, 3568 Lakeshore Blvd., Oakland.
 Architect—Miller & Warnecke, Financial Center Bldg., Oakland.
 Contractor—Jensen & Pedersen, 3443 Adeline St., Oakland.
 Filed July 1, '30. Dated June 28, '30.
 Frame up.....\$3000
 When plastered.....3000
 When completed.....3000
 Usual 35 days.....4646
TOTAL COST, \$13,646
 Bond, none. Limit, 100 days. Forfeit, none. Plans and specifications filed.

ALTERATIONS & ADDITIONS

(119) 203 HILLCREST ROAD, Berkeley; additions and alterations to residence.
 Owner—Milton T. Farmer.
 Architect—Roland Irving Stringham, Newhall Bldg., San Francisco.
 Contractor—G. H. Wendt, 556 Arlington, Berkeley.
 Filed July 5, '30. Dated July 1, '30.
 When brown coated.....\$1426
 When completed.....713
 Usual 35 days.....713
TOTAL COST, \$2852
 Bond, \$2852. Sureties, U. S. Guarantee Co. Limit, Sept. 18, 1930. Plans and Spec. filed.

ALTERATIONS

(120) TWELFTH AND CLAY STS., Oakland. All work for alterations and additions on fourth floor of steel and concrete store and athletic building.
 Owner—Athens Athletic Club, 12th and Clay Sts., Oakland.
 Architect—John J. Donovan, 1916 Broadway, Oakland.
 Contractor—The Dyer Construction Co., 1924 Broadway, Oakland.
 Filed July 3, '30. Dated July 1, '30.
 On 1st of each month.....75%
 Usual 35 days.....Balance
TOTAL COST, \$10,734
 Bond, \$10,734. Surety, Globe Indemnity Co. Limit, 40 days. Forfeit, \$50 per day. Plans and specifications filed.

SIDINGS, ETC.

(121) WEST OF THE MAIN Line of the Western Pacific Railroad Co. near milepost 25; construction of two sidings and transfer tracks.
 Owner—The Western Pacific Railroad Company.
 Architect—None.
 Contractor—Worden & Forsythe.
 Filed and Dated July 7, 1930.
 Monthly payments of.....75%
 36 days after completion. Balance
 Unloading and laying track material, per mile.....\$1050
 Placing plates.....each .01 c
 Installing turnouts.....each \$50
 Surfacing track, etc., per track.....\$1300
 Installing crossing plank, per M. F. B. M.....\$1500
 Limit, 30 days. Plans and Spec. filed.

FIRE ESCAPE

(122) 69 GLENN AVE., Oakland; installing fire escape.
 Owner—John Vellance, 29 Glenn Ave., Oakland.
 Architect—None.
 Contractor—R. H. Weeks Const. Co., 1715 University Ave., Berkeley.
 Filed and dated June 9, 1930.
 On completion.....\$175
 90 days after completion.....75
TOTAL COST, \$250

SHOP

(123) NW 20th and BROADWAY, Oakland; general construction on shop building.
 Owners—E. J. and Grover A. Magnin.
 Architect—None.
 Contractor—Chas. W. Heyer, Jr., 23 York Drive, Piedmont.
 Filed July 9, '30. Dated July 3, '30.
 10th of each month.....75%
 Usual 35 days.....Balance
TOTAL COST, \$256,478
 Forfeit, \$100 per day. Limit, Dec 31, 1931.

WRECKING

(124) 2219 COLLEGE AVE., Berkeley and campus of the University of California, Berkeley (Psychology Bldg.); wrecking and removing building.
 Owner—Regents of the University of California, Berkeley.
 Architect—None.
 Contractor—Symon Bros., 22nd Ave. and E 14th St., Oakland.
 Filed July 9, '30. Dated June 30, '30.
 To Be Paid by Contractor, \$100.
 Bond: Labor and Material \$1000; Public Liability \$10,000 and \$20,000. Sureties, N. Y. Indemnity Co.

COMPLETION NOTICES

Alameda County

Recorded	Accepted
June 30, 1930—NO. 3938 COOLIDGE Ave., Oakland. Wm W and Marjorie C Parsons to James G Fisher	June 26, 1930
July 7, 1930—S E TENTH AVE 50 ft. NE of East 22nd St., Oakland. Umberto Cavallo to whom it may concern	July 3, 1930
July 7, 1930—LOT 229 BLK Q, Fernside Tract, Alameda. Robert Hugo Flala Jr. to Walter H Anderson	July 7, 1930
July 7, 1930—3715 ATLAS AVENUE, Oakland. Andrew Fleming to Self	July 7, 1930
July 2, 1930—CAMPUS OF UNIVERSITY of California, Berkeley. Regents of the University of California to Peerless Ornamental Iron & Bronze Co.	July 27, 1930
July 2, 1930—LOT 12 BLK J, Estudillo Estates, San Leandro. Raymond D Jones to whom it may concern	June 30, 1930
July 2, 1930—NO. 306 TWENTY-Fourth St., Oakland. Tiller Spear to various contractors	June 25, 1930
July 3, 1930—LOTS 29, 30 AND 31, Cherry Manor, San Leandro. A F Hanson and L M Mumford to whom it may concern	July 2, 1930
July 5, 1930—LOT 16 BLK C, Broadway and Telegraph Ave Park Trct, Oakland. W H and Emma O Newland to Chas T Moore	July 3, 1930
July 5, 1930—3453 FANTON St., Oakland. Louis Barone to Karl Engmann	June 20, 1930
July 5, 1930—LOT 14 BLK C, Castro Valley Gardens, Eden Twp. Wm P Donovan to W A Thayer	June 28, 1930
June 30, 1930—LOTS 11, 12, 13, 14, 15 and Ptn Lot 16, Map of Eaton Property, Berkeley. International House to East Bay Sheet Metal Works	June 25, 1930
July 1, 1930—INTERSECTION NW	

Versailles Ave. and SW Calhoun St., Alameda. Noble F Justice to whom it may concern. June 30, 1930
 July 1, 1930—LOTS 10, 11 AND 12 Blk 2, Solano Avenue Terrace, Berkeley. Benjamin T Hansen to John Porter & Sons. June 30, 1930
 July 1, 1930—PTN LOT 414, Merriewood, Oakland. O B Anderson to Warn Bros. June 26, 1930
 July 1, 1930—NO. 1801 THIRTY-ninth Ave., Oakland. Ralph Raiola to Allan MacDonald. June 30, 1930
 July 8, 1930—OAKLAND and Alameda. Southern Pacific Company to Hutchinson Co (two completions). June 30, 1930
 July 8, 1930—PTN CTN TRACT of land conveyed by Hanna F Correy to Geo H Douglass August 1, 1887, and recorded in Vol 327 of Deeds, page 165, Oakland. Victoria B Crew to John S Flagg (two completions). July 7, 1930
 July 8, 1930—PTN LOTS 21, 22, 23 and 24 Blk H, new town of Lynn, Oakland. G W Steffen to whom it may concern. July 7, 1930

LIENS FILED

ALAMEDA COUNTY

Recorded	Amount
July 7, 1930—PTN OF LAND CONVEYED by Realty Syndicate Co. to Werner Plotcher Hoyt Feb 28, 1921 and recorded in Vol 3058 Official Records page 272, Piedmont. M Medis vs Perle D Froelich, H E Williams	\$255.67
July 7, 1930—LOTS 50 and 51 BLK B, Fruitvale Villa Tract, Oakland. D L & F L Minoggio to Minoggio Bros vs Louis and Mary Barone and Carl Engman	\$260.25
July 3, 1930—LOTS 10 AND 11 and Ptn Lot 12 Blk 24, Lakeshore Subdiv of Adams Point Property, Oakland. Joseph Bros vs R D Phillips, Real N Phillips, Walter W Phillips, Alma Brown and Mrs. F D Kerr	\$334.08
July 5, 1930—LOTS 50 and 51 BLK B, Fruitvale Villa Tract, Oakland. Old Mission Paint Co vs Louis and Mary Barone, E W Beyerle, Carl Engman	\$45.88
July 5, 1930—4088 HOBART Street, Emeryville. Smith Lumber Co of Oakland vs W J Biddle, William McMahon	\$110.04
July 5, 1930—PART OF BLK 12, Northbrae Addn to Berkeley. Bert Mork vs Patricia N and B T Edmons to Miller White	\$180
July 2, 1930—S CLEMENT ST 100 E 16th Ave W 100 S 70 E 44-64 S 2-64 E 55 12-6. O F Larson & Son vs Isaac Plastering Co and J R and L L Johnson	\$283
July 2, 1930—LOTS 50 and 51 BLK B, Fruitvale Villa Tract, Oakland. Tilden Lumber & Mill Co, \$102.76; Sunset Lumber Co, \$41.21; Joe Triberti and Frank Massaro, \$143, vs Louis and Mary Barone and Karl Engman	\$401
July 2, 1930—PART OF BLK 12, Blk L Map No 3, Hillgass Tract, Berkeley. J P J Dyer vs Kathryn Wilde	\$401
July 1, 1930—LOT C BLK 55, Alameda Park Homestead, Alameda. Wm F Calborn as Pacific Coast Roof Co vs A A and Fillmore Arad	\$50
July 1, 1930—LOTS 50 AND 51 BLK B, Fruitvale Villa Tract, Oakland. Makin & Kennedy Inc, \$310.30; W H Gibson, \$38; vs Louis and Mary Barone and Carl Engman	

RELEASE OF LIENS

ALAMEDA COUNTY

Recorded	Amount
July 1, 1930—LOT 12 and Ptn Lot 13 Blk 11, Map of Lands Adjacent	

to Town of Encinal, Alameda.
Perry C Fry Co to R 11 Buck and
Mary Alice Buck.....\$90.61
July 1, 1930—PTN LOT 3 BLK 6,
Map of State University Home-
stead Assn No. 3, Berkeley. M.
Miller to J R Langtry and Robert
C Thomas.....\$50
July 3, 1930—LOT 49 BLK 6, Thous-
and Oaks, Berkeley. Tilden
Lumber & Mill Co, \$585.20; Sun-
set Lumber Co, \$135.31 to Harry
B Cross.....
July 5, 1930—LOT 3 BLK N, map of
the ppty of Pioneer Homestead
Assn, Alameda. A F Grabowski,
\$546.40; L E Morgan, \$525; Rich-
mond Sanitary Co, \$1636.16; P H
Schoenfeld, \$1875; Powell Bros Inc
\$950.53; Powell Eros Inc, \$375.65 to
Emil and Josephine Ickers.....

BUILDING CONTRACTS

SAN MATEO COUNTY

ALTERATIONS

BURLINGAME; all work for alteration
and construction of a one-story
reinforced concrete building.
Owner—J. P. Britt, 1631 South El Ca-
mino Real, San Mateo.
Architect—Will H. Toepke, 74 New
Montgomery St., San Francisco.
Contractor—Clinton—Stephenson Con-
struction Co., Ltd., Monadnock
Bldg., San Francisco.
Filed June 21, '30. Dated June 17, '30.
Progress payments of.....75%
Usual 35 days.....25%
TOTAL COST, \$4239
Forfeit, \$10. Limit, 45 working days.
Plans and Spec. filed.

REPAIRS

LOT 15 BLK 6, Dingel Park; repairs
and remodel building.
Owner—Giuseppe Greco, 156 Arch St.,
Redwood City.
Architect—None.
Contractor—J. D. Raffensperger, 509
Jefferson, Redwood City.
Filed and Dated June 25, 1930.
Completed.....\$100
Thirty days.....75
Sixty days.....45
Payment made.....75
TOTAL COST, \$295
Limit, 40 working days. Spec. filed.

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded	Accepted
June 21, 1930—PART LOT 13.....	map of the Kate Johnson Sub. J E Seby to whom it may concern.....
June 21, 1930—LOTS 2 and 3 BLK 2, Diller Addn, Redwood City. J U Swift to S F Borquin.....	June 20, 1930
June 21, 1930—LOTS 36 and 37 BLK M, San Bruno. H F Hall to whom it may concern.....	June 16, 1930
June 23, 1930—LOT 10 BLK 24 and Lot 18 Blk 27, Milbrae Highlands. Guss Morell & Sons to Schultz Const Co.....	June 18, 1930
June 23, 1930—PART LOTS 11 and 12 BLK 19, Baywood. Buschke & Johnson to whom it may concern.....	June 19, 1930
June 23, 1930—PART LOTS 12 and 13 Blk 19, Baywood. Buschke & Johnson to whom it may concern.....	June.....
June 23, 1930—PART LOTS 11, 12 and 13 Blk 19, Baywood. Buschke & Johnson to whom it may concern.....	June 19, 1930
June 23, 1930—LOT 10 BLK 24, Mil- brae Highlands Co. Guss Moeller & Sons to Schultz Const Co.....	June 18, 1930
June 24, 1930—PART LOTS 3 and 4 Blk D, Fair Oaks Acres. E R Hoffman to whom it may concern	

June 23, 1930
June 24, 1930—LOT 15 BLK 22, San
Bruno. Clara Rubin to Propper
Roy.....June 20, 1930
June 24, 1930—LOT 8 BLK 24, Mil-
brae Villa Park. R R Hlansysell
to whom it may concern.....
March 26, 1930
June 24, 1930—LOT 13 BLK 31, Lyon
and Heng Sub, Burlingame. P G
Pedersen to whom it may con-
cern.....June 24, 1930
June 25, 1930—LOT 20 BLK 2, North
Palo Alto. George Chioffi to Chas
H Czaplany.....June 24, 1930
June 25, 1930—N LINE BURLIN-
GAME City. Martin Stelling, Jr
to Young & Horstmyer.....

June 17, 1930
June 25, 1930—LOT 14 BLK 3. Er-
nest Sacatalli to S F Borquin.....
June 21, 1930
June 26, 1930—PART LOT 314 San
Mateo City Homestead. Edward
Davis to whom it may concern.....
June 26, 1930
June 26, 1930—LOT 13 BLK 3, West
Redwood City. Richard Steinborn
to whom it may concern.....
June 1, 1930
June 26, 1930—LOT 15 BLK 34, Red-
wood Highlands. J L Connolly to
whom it may concern.....

June 26, 1930
June 27, 1930—LOT 20 BLK 15, Bay-
wood. Charles Hammer to whom
it may concern.....June 26, 1930
June 27, 1930—LOT 20 BLK 11,
Crocker Tract. Lee Hagel to whom
it may concern.....June 25, 1930
June 27, 1930—64 PENINSULA Man-
or. Louis Guisti to E D Soward.....
June 19, 1930
June 27, 1930—LOT 21 BLK 46,
Easton. Ernest J Scheppeler to
Herman T Holsher.....June 23, 1930
June 30, 1930—LOT 3 BLK 10, Edge-
wood Park. C F Magne to whom
it may concern.....June 30, 1930
June 30, 1930—LOT 20 BLK 19, Eagle
Hill Addn, Redwood City. Ar-
thur Newman to whom it may
concern.....June 30, 1930

July 1, 1930—PART LOTS 7 and 10
Blk 13, Lomita Park. A J Slick to
whom it may concern.....June 30, 1930
July 2, 1930—LOT 22 BLK 7 East
San Mateo. Ashby Powers et al
to whom it may concern.....
June 26, 1930
July 2, 1930—LOT 5 BLK 8, Edge-
wood Park. S F Borquin to L C
Rowen.....June 1, 1930
July 2, 1930—LOT 2 Resub Blk 1,
Central Park. Thomas Nelson to
whom it may concern.....June 30, 1930
July 2, 1930—N LINE OF BURLIN-
GAME Ave, Burlingame. Martin
Stelling Jr to Young & Horstmy-
er.....June 27, 1930
July 2, 1930—LOT 2 BLK 21 and
Lot 5 Blk 2, E San Mateo. Leng-
feld & Olund to whom it may
concern.....June 27, 1930
July 2, 1930—LOT 5 BLK 18, Oak
Park. Michael N Marlow to whom
it may concern.....June 27, 1930
July 2, 1930—LOT 9 BLK H, Hay-
ward Park. Wallace Vaterhouse
to whom it may concern.....
June 26, 1930

LIENS FILED

SAN MATEO COUNTY

Recorded	Amount
June 21, 1930—10 ACRES, location not given. Grinnel Co vs E J De- lanev et al.....	\$577.95
June 24, 1930—PART LOTS 3 and 4 Blk 3, Burlingame Land Co. Mc- Clintic-Marshall Co of California vs James K Moore.....	\$6750
June 24, 1930—LOT A, Central Park. C A Bloomquist vs Edw Davis.....	\$45
June 28, 1930—PART LOT 3, Bur- lingame Land Co. Steelform Con- tracting Co vs James K Moore, et al.....	\$421

June 30, 1930—LOTS 7 and 8 BLK 10
San Bruno. Edwin Millard vs An-
thony Muracek et al.....\$100
June 30, 1930—PART LOTS 3 and 4
Blk 9, Burlingame Land Co. Con-
struction Device Co vs James K
Moore.....\$196
July 1, 1930—PART LOTS 3 and 4
Blk 9, Burlingame Land Co. Pa-
cific Heating Co vs J K Moore, et
al.....\$32.60

RELEASE OF LIENS

SAN MATEO COUNTY

Recorded	Amount
June 24, 1930—LOCATION OMIT- TED. San Mateo Planing Mill Co, San Carlos Feed & Fuel Co to Daynport Realty Co.....	
June 28, 1930—LOT 49, Peninsula Manor. City Cash & Deo Co, J E Griffin, alias, Carl DeBenedetti, et al, I Sargent, H B Casey Co, Peninsula Bldg Co, S Rossi. San Mateo Hdwe Co, Marshall Newell Supply Co to Henry L Wills, et al July 1, 1930—LOCATION OMITTED. Carl Kortad et al to Elias Vigen, et al.....	

BUILDING CONTRACTS

SANTA CLARA COUNTY

OFFICE AND STORE

E 1st St & S San Carlos S on 1st 141'
9" r/a Nely line to the Nly line to
prolongation thereof 137 ft 10 in
r/a Nly and part 1st St 141 ft 9 in
to San Carlos St W on San Car-
los St 137 ft 10 in to p o b; being
all of Lot 2 and part of Lot 3 Blk
3 R 2 S of the base line of city
of San Jose; all work on office and
store building.
Owner—Hale Bros Realty Co. (a Del-
aware Corp.)
Architect—Binder & Curtis and Swan-
son & Lane, Inc., 35 W San Car-
los St., San Jose.
Contractor—W. S. Dinwiddie as Din-
widdie Const Co, Crocker Bldg.,
San Francisco.
Filed June 28, '30. Dated June 23, '30.
Monthly payments.
Balance usual 35 days.
TOTAL COST, \$351,000
Bond, \$175,500. Sureties, William H.
Crocker, D. J. Murphy. Limit, on or
before Feb. 1, 1931. Plans and Spec.
filed.

LIENS FILED

SANTA CLARA COUNTY

Recorded	Accepted
June 27, 1930—LOTS 10 and 18 BLK 123 Crescent Park No 2, Palo Alto. H Biebler vs Howard L Gray.....	\$42
June 30, 1930—LOTS 35 and 37 Blk 7, Bartley Tract Sub No 3, Palo Alto. Charles Hildenbrand vs Mar- tha K Dillon.....	\$38

COMPLETION NOTICES

SANTA CLARA COUNTY

Recorded	Accepted
June 27, 1930—PART LOT 81, Woo- ster Sub. Tonnes H Barstad to whom it may concern.....	June 24, 1930
June 27, 1930—PART LOT 6, Sub of Lot B Walker Partition. Har- riet A Zillmer to whom it may concern.....	June 27, 1930
June 28, 1930—LOT 16 BLK 11, Ever- green Park, Palo Alto. House and Ormonson Inc to whom it may concern.....	June 20, 1930
June 28, 1930—LOT 24 BLK 142, Embarcadero Oaks. Robert Nell to whom it may concern.....	June 27, 1930
June 28, 1930—ONE HALF ACRE on	

N McKee Road. J F Luethe et al
to whom it may concern.....
June 30, 1930
June 30, 1930—LOTS 6 and 7, Coun-
try Club Park. Alfred Gallagher
to whom it may concern.....
June 28, 1930

BUILDING PERMITS**PALO ALTO**

SHOP, Class C tile, \$2000; No. 847
Emerson St., Palo Alto; owner,
M. S. Noble; contractor, B. Briggs
RESIDENCE, frame and stucco,
\$7000; No. 253 Dana St., Palo Alto
owner, Allan Vishoot; contractor,
H. A. Spreen.
DWELLING, frame and stucco, \$7000;
1815 Waverly St.; owner, A. M.
Donaldson, 1821 Waverly St., Palo
Alto; contractor, C. L. Sanford.
HOSPITAL, class B, \$347,033; 350 El
Camino Real; owner, City of Palo
Alto; architect, Reed & Corlett,
Oakland Bank Bldg. Oakland; con-
tractor, K. E. Parker Co., 135 S
Park St., San Francisco.
MIXING ROOM, concrete and wood,
\$1000; 300 Portage St.; owner, Sut-
ter Packing Co., 300 Portage St.,
Palo Alto.

BUILDING PERMITS**SAN JOSE**

RESIDENCES, (2) 5-room frame,
\$5800; Orvis St. near 12th St., San
Jose; owner and contractor, L. A.
Biecher, 2528 Pierce St., San
Francisco.
ALTER Class C business building,
\$1000; No. 46 Race St., San Jose;
owner, Langendorf Bakery, Prem.;
contractor, L. C. Rossi, 965 Wil-
low Glen Way, San Jose.
SCHOOL, two-story Class C, \$302,000;
Second and Rosa Sts., San Jose;
owner, San Jose School Dept.,
San Fernando at Sixth Sts., San
Jose; architect, J. J. Donovan,
1916 Broadway, Oakland; contrac-
tor, W. J. Ochs, American Trust
Co. Bldg., San Jose.
ALTER frame residence, \$2000; No.
1225 Hanchett St., San Jose; own-
er, L. Normandin, Premises; con-
tractor, G. M. Latta, 157 Rhodes
Court, San Jose.
RESIDENCE, 6-room, \$1950; Sixth
St. near Rosa; owner, J. Wash-
burn, 346 Home St., San Jose;
contractor, W. J. Martin, 456
Delmas Ave., San Jose.
WAREHOUSE, frame and corrugated
iron, \$2000; Stockton St. near
Julian St., San Jose; owner, M.
W. Parkhurst, 86 N-First St., San
Jose; contractor, Frank Perez, 354
Keyes St., San Jose.
AMUSEMENT building, wood, \$4500;
Humboldt St. near Sixth, San
Jose; owner, San Jose Tennis
Club, N. Antonacci, City Hall;
architect, Binzer & Curtis, 35 W-
San Carlos St., San Jose; con-
tractor, B. H. Painter, Gordon
Ave. R. E. D., San Jose.
ALTER Class C business building,
\$2000; No. 241 S-First St., San
Jose; owner, Central Outfitting
Co., 285 S-First St., San Jose;
contractor, H. A. Briggs, 1398
Lincoln St., San Jose.
ALTER Class C business building,
\$1000; 81 S-First St., San Jose;
lessee, Leon Jacobs, 275 S-14th St.,
San Jose; contractor, Wm. Cald-
well, 1241 Hedding St., San Jose.
ADD to Class C industrial building,
\$100; Taylor St. near Eighth St.,
San Jose; owner, Continental Can
Co., Premises; contractor, R. O.
Summers, 17 N-First St., San
Jose.

ALTER Class C business building,
\$1250; No. 150 W-Santa Clara St.,
San Jose; owner, DeSalas Estate
Premises; contractor, E. J. Shot-
tenhamer, 401 S-Market St., San
Jose.

ALTER frame residence, \$1645; No.
915 Chapman St., San Jose; own-
er, J. G. Patton, 350 N-First St.,
San Jose; contractor, R. O. Sum-
mers, 17 N-First St., San Jose.
INDUSTRIAL building, Class C, \$43-
750; Race St. near Moorpark St.,
San Jose; owner, U. S. Products Co.,
Premises; architect, Binder &
Curtis, 35 W-San Carlos St., San
Jose; contractor, R. O. Summers,
17 N-First St., San Jose.

BUILDING PERMITS**REDWOOD CITY**

DWELLING, 6-room and bath, frame,
\$4090; 503 Iris; owner, Louis Foss;
contractor, S. E. Goss.
DWELLING, 6-rooms, 2 baths and gar-
age, \$16,000; 976 Durlston Road;
owner, and builder, F. and M. Car-
lsle.

BUILDING PERMITS**BURLINGAME**

BUNGALOW, \$5500; Lot 19 Blk 46
Drake Ave.; owner and builder,
Moses Little, 1270 Drake Avenue,
Burlingame.
BUNGALOW, \$6000; Lot 24 Blk 44
Vancouver Ave.; owner and builder,
H. H. Bandies, 249 Hillcrest
Blvd., Millbrae Highlands.
BUNGALOW, \$4000; Lot 14 Blk 24
Aulta Road; owner, D. Houle, 152
Grand St., Redwood City; contrac-
tor, Kappeler Bros.
BUNGALOW, \$4,000; Lot 17 Block 24
Anita Road; owner, D. Houle, 162
Grand St., Redwood City; contrac-
tor, Kappeler Bros.
BUNGALOW, \$5000; Lot 10A Blk 26
Howard Ave.; owner, L. F. Claus-
ganic, 1416 Montero Ave., Burlin-
game; contractor, H. H. MacDon-
ald, 1620 Rosewood, San Carlos.
BUNGALOW, \$7500; 20 ft. of Lot 14
and 120 ft. of Lot 23 Blk 18, George-
town; owner & builder, Neil Don-
ovan, 716 Howard Ave., Burlin-
game.

COMPLETION NOTICES**MONTEREY COUNTY**

Recorded	Accepted
June 28, 1930—PARCELS NOS 7, 8	
and 10, Los Ranchitos Del Carme- lo Tract No. 1, W E Haseltine to Hugh W Comstock.....	May 15, 1930
June 23, 1930—LOT 12 BLK 157 in Carmel Woods Addn to Carmel. Helen Sterling to Hugh W Com- stock.....	June 18, 1930
June 30, 1930—LOTS 16 and 17 BLK 9 as per map No 2 Del Monte Hgts. Oliver B Olsen to whom it may concern.....	June 30, 1930
July 1, 1930—LOT 6 of PARCEL 7, Romie Lane Subdiv. E H Thomp- son to Self.....	July 1, 1930
July 9, 1930—LOT 14, Maple Park Addn Ne 1. J Frank Laughton to Self.....	July 2, 1930

LIENS FILED**MONTEREY COUNTY**

Recorded	Amount
July 3, 1930—LOT 3 BLK 21, Springs 2nd Addn, Salinas, Anderson- Dougherty-Hargis Co vs Florence McLennan Tynan and Cleon A Ty- nan.....	\$50.55
July 2, 1930—LOT 1 BLK 3, Home- stead Addn, Salinas. Central Sup- ply Co vs J Scarpa.....	\$50.86

June 30, 1930—LOT 1 BLK 8, Home-
stead Addn, Salinas. Homer T
Hayward Lbr Co vs J Scarpa.....\$213.31

COMPLETION NOTICES**CONTRA COSTA COUNTY**

Recorded	Accepted
July 1, 1930—W 47 FT. LOT 4 BLK 3, Nason Addition to Antioch. Community Builders, Incorporated to V A Peters.....	
July 1, 1930—LOT 2 BLK 1, Mauby High School Addition to Concord. Fred Demartini to Fred Demar- tini.....	May 17, 1930
July 3, 1930—LOT 39 and S ½ 38 in Blk 16, Richmond Pullman Home Tract. Wesley T Head to whom it may concern.....	June 21, 1930
July 3, 1930—LOT 1 BLK 52, Orig- inal Survey, Martinez, J L Schwe- nitzler and Karl Bickel to whom it may concern.....	July 3, 1930
July 3, 1930—SLY PTN LOTS 1 and 2 Blk 58, Original Survey, Mar- tinez. Joe C and Mary Borges to Leonard H Ford.....	July 1, 1930
July 3, 1930—PTN TIDELAND Com- missioners Lot 18, Sec 24 in SW and ptn Tideland Survey No. 8, containing 8.963 acres. Filice and Perrelli Canning Co, Inc to Chas Stockholm & Sons.....	July 1, 1930
June 27, 1930—PTN RANCHO EL Pinole. Maria Perry, agent for S R Perry to Valine & Lawrence.....	June 26, 1930
June 27, 1930—LOT 4, Division 1, Rancho El Pinole. Martinez Hos- pital Assn to Wallace Snelgrove.....	June 26, 1930
June 27, 1930—LOT 25 Blk 4, Nicholl Macdonald Avenue Civic Center. Tony Rello to whom it may con- cern.....	June 26, 1930
June 28, 1930—LOCATION OMIT- TED, O F Armour, 1123 6th St., Antioch to G Z Smith.....	June 26, 1930
June 30, 1930—LOT 3 BLK 2, Mar- tin's Center Tract No 1. Angie Gall to D S Riker.....	June 28, 1930
June 30, 1930—LOT 25, Nissen's Addn to Richmond. A J Osborne to whom it may concern.....	June 25, 1930
July 2, 1930—TWO PARCELS OF land in Rancho Monte del Diablo. Tillie Peters to whom it may con- cern.....	July 2, 1930
July 7, 1930—LOT 8 BLK 2, Doris Court Addition to Concord. Ettore Lorenzetti to whom it may con- cern.....	July 3, 1930
July 7, 1930—N 50 FT OF E 177.1 ft. Lot 7 Blk 2, Pittsburg Home Acres. Timothy and Rosa K Beni- son to whom it may concern.....	July 5, 1930
July 7, 1930—PTN LOT 192, San Pablo Rancho. Orlie O and Altha V McKemy to Carter II Johnston	June 26, 1930

LIENS FILED**CONTRA COSTA COUNTY**

Recorded	Amount
June 28, 1930—LOT 2 BLK A, Town of Crockett. Tilden Lumber Co vs Carl Struckman and Phillip Mon- tesano.....	\$71.11
July 1, 1930—LOTS 6, 7, 8 AND 9 Blk 1, Subdivision of Blk 1 W, Town of Rodeo. Maxwell Hard- ware Co vs Manuel Serpa, An- tonio Silva and J Silva.....	\$116.56
June 30, 1930—LOTS 6, 7, 8 and 9 Blk 1, Subdiv of Blk 1 west, Ro- deo. Lindhold Tile Co vs M S Ser- pa and Antonio Silva.....	\$161.50
July 2, 1930—LOT 9 BLK 1, Subdiv of Block 1 W Rodeo. Sunset Lbr Co, \$27.21; Tilden Lumber & Mill Co, \$343. vs M S Serpa and An- tonio Silva.....	

BUILDING PERMITS

STOCKTON

RESIDENCE and garage, \$4800; No. 728 W. Elm St., Stockton; owner, George Witherow, premises; contractor, T. E. Williamson, 1559 W. Park St., Stockton.
RESIDENCE and garage, \$4000; No. 135 East Noble St., Stockton; owner, A. C. Dahl, Premises.
REMODEL men's hall, \$5000; N Pacific St., Stockton; owner, College of the Pacific, Premises.
SILLED, storage, \$1000; 321 N American St.; owner, A. L. Branch, 321 N American St., Stockton.
MOVE and remodel, \$9000; Congregation Rhym Ahooivim, Stockton; owner, Congregation Rhym Ahooivim; contractor, L. S. Peletz, 1660 W-Acacia Ave., Stockton.

COMPLETION NOTICES

SAN JOAQUIN COUNTY

Recorded	Accepted
July 1, 1930—LOT 5 BLK 14, Lake Park, Stockton. Henry A and Adie M Isenberger to Elton I Way.	June 26, 1930
July 8, 1930—LOT 80, Burkett Acres, Stockton. Frank Ellsworth McIntire to whom it may concern.	July 3, 1930
July 5, 1930—LOT 16 BLK 5, North Oaks. Vernon J Newell to J M Helterbrand.	June 28, 1930

LIENS FILED

SAN JOAQUIN COUNTY

Recorded	Amount
July 7, 1930—LOT 6 BLK 3, Stewart's Addn, Manteca. Hayward Lumber & Inv Co vs J A Burner.	\$74.45

COMPLETION NOTICES

MARIN COUNTY

Recorded	Accepted
July 2, 1930—FRESNO. Pacific Gas & Elec Co to Devlin-Drew Co.	July 2, 1930
July 2, 1930—MILL VALLEY. Ruth Folkler to Melvin Klyce.	June 20, 1930

COMPLETION NOTICES

SONOMA COUNTY

Recorded	Accepted
June 28, 1930—3 ACRES Near Town of Windsor. James and Lucile Le Baron to W E Musselmen.	June 28, 1930
July 1, 1930—ABOUT 1 1/4 mile SE of Santa Rosa in Bennett Valley. I P Erwin to W J Meeker.	July 1, 1930

BUILDING CONTRACTS

SONOMA COUNTY

RESIDENCE
FIVE MILES SW OF HEALDSBURG, Ranch property known as "Whit'O Rancho." All work except electric fixtures, painting, window shades, finish hardware, stone for mantel and leaded glass for two-story and cellar residence
Owner—Aileen D. White.
Architect—Erle J Osborne, 593 Market St., San Francisco.
Contractor—W. Singleton, Petaluma.

Filed July 1, '30. Dated June 28, '30.
Frame up\$9750
Rough plaster completed..... 9750
Completed and accepted..... 9750
Usual 35 days..... 9750

TOTAL COST, \$39,000
Bond, \$39,000. Surety, Maryland Casualty Co. Limit, 100 working days after July 1, 1930. Forfeit, none. Plans and specifications filed.

LIENS FILED

SONOMA COUNTY

Recorded	Amount
June 30, 1930—2.08 AND 1.11 ACRES near Santa Rosa on Sonoma Highway. E N White Lumber Co vs James and Franc Simms.	\$1361.43 and interest

BUILDING PERMITS

SACRAMENTO

RESIDENCE, 4-room, \$2500; No. 2917 C St., Sacramento; owner, Mrs. L. Pisa, Premises; contractor, Chas. Vanina, 2022 M St., Sacramento.

RESIDENCE, 7-room, \$8000; No. 3631 17th St., being Lot 331, College Tract, Sacramento; owner, E. W. Florence, 1348 38th St., Sacramento; contractor, Jos. T. Ransdall Jr., 1424 38th St., Sacramento.

GARAGE, public, \$18,000; No. 907-915 Ninth St., Sacramento; owner, Austin Brennan, Tonopah, Nevada
RESIDENCE, 8-room, \$5000; No. 2121 Seventh Ave. being Lot 6, College Terrace, Sacramento; owner, Geo. E. Hooper, 2143 7th Ave.; contractor, Frank Richards, Hagginswood St., Sacramento.

RESIDENCE, 5-room, \$5000; No. 701 33rd St., Sacramento; owner, B. A. Proctor, 714 22nd St., Sacramento; contractor, O. M. Froling, 1625 40th St., Sacramento.

GENERAL repairs, \$2800; No. 1000 P St., Sacramento. owner and contractor, Union Oil Co., 10th and L Sts., Sacramento.

WAREHOUSE, \$24,886; 1013-17 R St.; owner, W. P. Fuller Co., 1015 12th St., Sacramento.

RESIDENCE, 6-room, \$5000; 530 45th St.; owner, F. C. Stabenaw, 3210 6th Ave., Sacramento.

REPAIRS, general, \$2750; 1430 D St.; owner, Mrs. Fitch, Redwood City; contractor, J. A. Saunders, 1045 45th St., Sacramento.

SERVICE Station, \$2500; 4701 H St.; owner and builder, P. Doyle, 678 2nd St., Sacramento.

ADDITION, \$1400; 2901 E St.; owner, W. H. Gibson, 2903 E St., Sacramento; contractor, J. D. Haworth.

RESIDENCE, 8-room, \$7000; No. 2161 Ninth Ave., Sacramento; owner and contractor, W. B. Phillips, 4890 T St., Sacramento.

GENERAL repairs, \$1000; No. 3723 47th St., Sacramento; owner, Gabriel O. Relli, Premises.

COMPLETION NOTICES

SACRAMENTO COUNTY

Recorded	Accepted
July 3, 1930—W 1/2 S 1/2 LOT 8 E F 16th and 17th Sts, Sacramento. Mrs Emma Hart Starr and E B Starr to whom it may concern.	May 28, 1930
July 2, 1930—LOT 13 McKinley Park Tract. Carl and Lena Vogt to whom it may concern.	June 30, 1930
July 5, 1930—LOT 12 BLK 48, Oak Park and South Sacramento. Newton D & Julia M Hopton to whom it may concern.	June 30, 1930
July 7, 1930—PARCEL OF LAND bounded by 24th, 25th, R and S Sts., Sacramento. Pacific Telephone & Telegraph Co to whom it may concern.	June 28, 1930
July 1, 1930—LOT 10, Stuber Knoll, Sacramento. Otto W Huelsman to whom it may concern.	June 28, 1930
July 1, 1930—LOT 21 BLK 1, Maple Park. Sacramento. Chas L Fischer to whom it may concern.	June 27, 1930
June 28, 1930—LOT 1101, Sacramento. Nick R Franasich to H J Goethe Co II.	June 14, 1930

BUILDING PERMITS

FRESNO

DWELLING, \$3250; No. 909 Clinton Ave., Fresno; owner, J. A. Johnson, T. W. Patterson Bldg., Fresno; contractor, C N. McKnight.

VENTILATING, \$3000; D and Fresno Sts., Fresno. owner, Jas P. Wong contractor, Faris & Osborne, 720 Fulton St., Fresno.

DWELLING, \$3500; 1432 College Ave.; owner and builder, J. C. Golden.

COMPLETION NOTICES

FRESNO COUNTY

Recorded	Accepted
July 7, 1930—LOTS 11 AND 12 Blk 1, Sierra Vista Addition, Fresno. L and Stella Seakovich to Lloyd Turner.	June 30, 1930
June 30, 1930—LOT 9 BLK 36, Sierra Vista Addn No 2, Fresno. W M Brown to T W Griffith.	June 26, 1930
June 30, 1930—LOT 7 BLK 5, Routt Tract, Fresno. W J Eadford to whom it may concern.	June 25, 1930
July 3, 1930—LOTS 9, 10 and 11 Blk 121 Sanger. J Eckle Starnes to W H Jones.	July 2, 1930

LIENS FILED

FRESNO COUNTY

Recorded	Amount
July 2, 1930—PART BLK J, Fresno. Dolan Company vs M Perch.	\$70
July 5, 1930—SE COR SIMPSON & Draper Sts., Kingsburg. Citizens Lumber Co vs Chas and Roy R Foster.	\$61

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San Francisco

BUILDING *and* ENGINEERING NEWS

Publication Office
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SAN FRANCISCO, CALIF., JULY 19, 1930

Thirtieth Year, No. 29
Published Every Saturday

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N. Y. STEEL BOARD DROPS NEGOTIATIONS WITH UNION WORKERS

Officers of the International Bridge and Structural Iron Workers Union to capture all greater New York steel erection have proved unavailing according to information received from that city today. After three months of discussion the Structural Steel Board of Trade unanimously adopted a resolution terminating all negotiations with the Union. Steel in New York has been erected open shop for twenty-four years. The Union, it is said, attempted to force closed shop erection in New York by tying up all of Starrett Bros. work throughout the country.

The resolution adopted by the Structural Steel Board of Trade follows:

RESOLUTION passed by the Structural Steel Board of Trade of New York, at a meeting held July 1, 1930.

When the Structural Steel Board of Trade entered into its recent negotiation with the Iron Workers' Union, it did so with the intention of effecting an agreement that would establish uniform labor conditions for its members throughout the whole metropolitan district, including New Jersey. This would have permitted them to carry out their obligations to their customers, to the public, and particularly to their employees, many of whom have already indicated their fear of discrimination.

During these negotiations the deplorable labor conditions in New Jersey, including both the exploitation of the public and the workers, have been exposed in the public press; but notwithstanding this publicity and the proof of the conditions themselves, the Union has done nothing to clear up the situation but has even taken steps toward its continuance—in fact, the negotiators for the International Union have consistently shown an apparent willingness to countenance existing conditions in the future.

The opinion of this Board cannot be other than that the signing of any agreement with the union regardless of its form would not remedy the situation as there is no apparent desire to do so on the part of the union and it believes that if an agreement were executed it would simply be a matter of a short time before the conditions in New York would be similar to those which are now known to exist in New Jersey.

It is therefore

RESOLVED: That all negotiations or efforts toward making an agreement with the Iron Workers' Union be and they hereby are discontinued and the proper officers of said union be so advised.

CONSTRUCTION ON THE INCREASE SAYS A. G. C.

An increase of approximately 8½ per cent in the volume of construction performed during June, as compared with that of the previous month, was indicated by the shipments of basic construction materials, according to the statistical charts of the Associated General Contractors of America which show the June volume at index number 191, or 15 points above that for May. The June index number, however, was 40 points below that for the same month last year.

Composite index numbers for the first six months of 1930 indicate a decrease of 12 per cent in the amount of construction work performed during the first half of the year, as compared with the same period of 1929. The average monthly index this year has been 148 against 167 for the first six months of last year and 195 for the entire twelve-month period of 1929.

Although contract awards reported for the first five months likewise show a decrease in comparison with those of last year, Edward J. Harding, assistant general manager of the Associated General Contractors, is confident that there is still a large volume of work which will come forward and that a relatively stronger showing will be made in the final half of the year.

Concrete surface pavement awards aggregated 18,914,000 square yards in May, or 314,000 square yards more than in the previous month which was a record-breaking April. The awards for the first five months totaled 64,665,036 square yards, or an increase of 32.3 per cent over the same period last year.

Long term State and municipal bond issues totaled \$135,000,000 in May and \$595,056,000 for the first five months, a gain of slightly more than 12 per cent for the latter period. The monthly average thus far has been \$119,000,000 as compared with \$17,150,000 for the first five months of 1929.

The average of construction costs in the principal construction centers in June was 3.4 points less than the cost index figure for the same month a year ago, standing at index number 189.6, according to the association's charts.

PROTESTS CODE CHANGES

The Amerlux Steel Corporation has filed a complaint with the San Francisco Board of Supervisors of a movement to revise the San Francisco building ordinance so as to allow only the use of steel made by the open hearth process and prevent the use of steel made by the Bessemer process. John B. Leonard, superintendent of the Bureau of Building Inspection, says that that revision would not prevent the use of Bessemer steel.

BARGAIN PRICES FOR THOSE WHO BUILD NOW

(From Engineering News-Record)

Now and then it is worth while to forget the business cycle, or at least to discard its terminology, and take a homely look at facts. Such a time is at hand. Regardless of trends or causes of trends, the construction industry is short of work. Money is not being spent for homes, for factories or for office and apartment buildings in anywhere near normal volume. And the reason, regardless of what we call the present state of the business cycle is plain. Everyone is waiting for a bargain.

It is now nearly a year since deflation began. The various indexes of business activity—steel mill operations, building contracts, electric power output, car loadings, commodity prices, interest rates—have steadily declined. Considering only building materials, in October, 1929, the basic steel price was \$1.90; it is now \$1.65. Brick was \$14.50, it is now \$13. Pine has declined 6.5 per cent, fir 18.5 per cent. Cement at \$1.95 is higher than it was in October, but is below the \$2.05 price which held from 1925 to September, 1929. Briefly, not since 1922 have building materials prices been so low. Other factors in construction point to advantages over recent years. Manufacturers of equipment and accessories, anxious to keep plants going and men employed, have reduced prices. Labor itself, working under the threat of possible unemployment, is more efficient than for several years past. Slack business has fostered keen competition among contractors and fabricators who are waiting hungrily for invitations to bid.

Granted a bargain day has arrived, can we expect bigger and better bargains to follow? Economists generally are answering this in the negative. They are pointing to several factors which indicate that bottom has been reached.

Credit conditions, which are fundamental to increased business, are wholesome. The rate of credit expansion, after a year of decline, has now reversed itself and is nearly normal; in step with business, both should move ahead. Resistance to further decline in commodity prices is seen in the upturn of some of them. Signs of an increase in residential building are reported by mortgage companies and building loan associations. Crops are going to be good, which means revenue for the railroads if not for the farmers.

It is worth while to keep in mind that business has now been marking time for nearly a year. Such an unusual situation in a country so completely convinced of the close relationship among prosperity, construction and industrial activity is not normal and must eventually change. The facts cited above herald the change. The tide is on the turn. It is time to build.

QUANTITY SURVEY WOULD HAVE SAVED \$23,000 ON SCHOOL JOB

I hope the day will come when quantity surveys will be provided and competing contractors will be able to make use of them to their own mutual benefit. It would be a great aid to every one in the contracting business to figure on some sort of uniform system. One man will take off brick work and wind up with half million brick and another man will take the same plan and only get four hundred and fifty thousand brick. Somebody is at a great disadvantage.

The real cost that is involved in the estimating of plans finally has to fall upon the owner. The owner sooner or later will see, possibly not in our time, but in the next generation, how it would be far more profitable for him to supply with his plans and specifications the quantities—the number of cubic feet of concrete, the number of thousand of brick, and have that quantity ascertained by not one Quantity Surveyor, but take three men, figure a set of plans and then compare their figures. They are bound to arrive at correct results, and it would be far better for architects to say, "Here are the plans and specifications the number of brick it will take, number of yards of plastering, number of feet of lumber, and the number of cubic feet of concrete." Then, it would be a simple matter for a contractor to figure. As it is today, thousands of dollars are wasted in overhead, in figuring plans.

Take a plan like the high school let here in St. Louis a little more than a week ago. There were twenty-three bidders on that high school, and I will venture to say every general contractor who figured that job spent one thousand dollars, at least, in ascertaining the quantities and making up his bid. Well now, there was twenty-three thousand dollars that was absolutely wastefully spent. If one-tenth of that amount of money was spent through quantity survey, just that much economy would be practiced.

Economical Feature

There is a difference of opinion in all things, and I still maintain the time will come when quantity survey will be a most useful and economical feature in building construction.

You know while I was a public servant, I liked my job. One night I was making a speech in the ballroom of the Statler. After I had made my speech a woman came up to me and extended her hand and said, "Mr. Mayor, I enjoyed your speech so much that I can't refrain from telling you that you remind me so much of my husband before he was taken away." I solicitously asked, "How long has he been dead?" She replied, "He isn't dead, they took him away to a lunatic asylum." (Laughter.) Then, on another occasion, I used to visit the institutions with the Grand Jury. I did that for self-protection, and too, it created a good feeling. We visited one of the feeble minded farms, a big institution, and there was an inmate there by the name of Otto. I was always friendly with Otto, shook hands with Otto. This day I wanted to show off a little and I said, "Otto, how are you today?" "I am fine." "This is a beautiful place up here, isn't it?" "Yes." "You like to live up here?" "Yes, Henry you ought to come up here and live

Address of Henry W. Kiel, Ex-Mayor of St. Louis, made at the Fifth Annual Convention of the American Institute of Quality Surveyors in St. Louis, Mo., April 15, 1920.

with us, you would like it too." (Laughter.) He had a good idea of what should have happened to me.

Speaking of relationship to the architect, I remember hearing a speaker, some thirty or thirty-five years ago, say that the contractor bears the same relation to the architect, that the undertaker does to the doctor—he covers up his mistakes. The architect makes some mistakes and the contractor makes a great many more, but if there is co-operation of giving the very best, and I do insist the method of building today is far superior than when I learned that trade. Today, through the co-operation of labor organizations, and you know they are very stringent and strict, you can't get a mechanic to slight his work, and you are getting a better quality and a better class of work. The only difficulty is that the contractor, whether he be a sub-contractor or general contractor is at a great disadvantage because of errors and mistakes made in estimating work.

Benefit to Contractors

I say, sincerely, that the time will come when the Quantity Surveyor will be of great benefit to the contractor. I never saw a contractor who died rich, but they always seem to have plenty of money when alive. A man told me, when I complained of losing money on almost every contract, "Well, you must have had a good pile when you started because you have done a whole lot of work."

The architects are not only taking interest in their personal affairs, but in civic affairs and that, after all, is the important part of any community. Today is the day of education. We learn by contact. This meeting of yours where you exchange thoughts and ideas, when you go back home you tell your colleagues what information you have gathered here, and it spreads out like an endless chain, and keeps on going.

The architects do a whole lot to help beautify the city. A nice residence district might be established and somebody wants to build a store or a garage and mar the beauty of the particular place. It was largely through the efforts of the architects that the zoning law of the City of St. Louis was adopted and became a permanent law. We had a great deal of difficulty when the Supreme Court declared the law at that time null and void. Today it would appear to work a hardship on an individual, but, nevertheless, you see the various localities in St. Louis ideally adapted to the purpose for which they are zoned.

You have your commercial zones, your apartments and industrial plants. The result is we are getting a more beautiful city, and everything is being erected in such a way that it adds to the attractiveness of the city and that credit largely belongs to the architect because they have made it a study and they have been able to convince the people that that must

be done to make a better and bigger city.

There are a great many problems that are confronting the people of this Nation today. Since we have talked a little bit about reformatories and prohibition, when I look at this Literary Digest, I find everybody isn't of the same accord.

Public

If you gentlemen who are here at this Convention will go back home and educate your own people, that is, the contractor, particularly the architect, of course, is a factor, the architect would settle your problem if he would make it a condition that his clients obtain quantity survey and submit it along with specifications, then your problem would be over. You have to get the contractor to use your information and every one of them would like to do it, but the cost is the thing that is prohibitive. That is an additional outlay of money. So through some method, if you could get your contractors' organization in cities where the contractors' organizations are strong, get them to utilize your plan, if you would be positive, which you would have to be in your quantities, then you would relieve a situation, and I think it would be only a matter of education.

Rush Bids Troublesome

The thing that troubles the general contractor, there is a dead line, bids must be in at a certain hour. Sub-contractors are going to wait until the last minute, varying thirty or forty per cent, one being materially lower and consequently the general contractor is in a quandary, whether the fellow is reliable or not.

Now then, if he had these quantity surveys that he could compare, use his own judgment as far as unit prices are concerned, then he would be in a more positive position, but the most trying period of a contractor's life is an hour before a bid goes in. If he has made a mistake and gets the job, then he is worried about how much money he is going to lose.

There was a time in my younger days when brick work was let on unit basis. The building was built upon a cost so much per thousand brick. After the building was completed, the engineer would measure that building, so many brick in it and yet would get paid just exactly for what you did.

The custom today is to get just as many bids as you can. That seems to be the policy, and even if you didn't want a large number of bids the contractors themselves would appeal to the architect and owners for permission to figure on the job. It is impossible for twenty-five men to estimate a set of plans and for one of them not to make a mistake. Many of them will make a mistake in their own favor and not get the job.

Encourage Irresponsible Competition

Mr. Ittner has said that out of twelve school jobs, four of them fail, and the bonding companies have to complete the building. Of course, bonding companies today are looking for business and they don't care, any one with a reasonable sort of statement, the good contractor pays for the defaulting contractor. It is business that they are looking for. The bonding company will write mostly any kind of a contractor, go surety

for him; they will take a chance. When he feels, the bond rate is naturally increased.

There are a lot of defects in the building business and a lot of defects in the architectural business, but, nevertheless, we are making progress. I think conditions are far superior today than ten years ago, but only by that constant perseverance that you gentlemen are exhibiting here, by coming here, you are making a great sacrifice yourselves but you are, nevertheless, helping those coming after you, because you are going to teach a lesson today and next week and next year it will be learned and carried out and followed.

I think you are on the right plan. I think you have the right idea of how to do this. Now then, your problem is to convey that idea to others who don't understand. If you keep on trying and educating, I think your way has not been wasted, but very well spent.

NO INCREASE FOR ROOFERS AT FRESNO

Members of the Fresno Roofers' Union have agreed to return to work at their old wage schedule of \$8 per day, abandoning, because of economic conditions, their recent demand for a \$1 per day increase. The union is composed of approximately fifteen members.

Committees from the Fresno Builders' Exchange and the Fresno Building Trades Council met at the request of the roofers' union and issued a joint statement that "the refusal of the wage increase was necessitated by a thorough review of conditions both locally and over the entire state."

"The Builders' Exchange," said Harry Cayford, secretary, "made clear its attitude requesting the building trades council to use its offices in maintaining the wages of the roofing craft as well as other crafts on a level and stable basis until such time as conditions warrant a change."

\$23,000,000 STEEL MILL FOR VANCOUVER

The Financial Post, Toronto publication, says that financing of a \$23,000,000 steel plant for the vicinity of Vancouver, B. C., by the Coast Range Steel Company, Ltd., is being arranged in New York.

The steel company controls iron ore property on Texada island, off the coast of British Columbia, near Vancouver.

Under plans of a company reorganization, the Post said, William B. Mayor, chief engineer of the Ford Motor Company, will be president, with Geo. M. Holly, president of the Holly Carburizer Company, and other Detroit capitalists associated.

A recent survey of ore deposits on the island revealed 6,924,000 tons, with an average iron content of 60 per cent, the paper declared. Mining engineers estimated sufficient ore was blocked off to keep the proposed plant operating 30 years.

The Post said the proposed plant would handle 300,000 tons annually and market 50 per cent of its pig iron and steel products in western Canada. Negotiations have been started, the paper declared, to sell under a five-year contract 200,000 tons of ore annually to Japan.

JASPER - STACY OF S. F. LOW ON ARIZONA ROAD WORK

Jasper-Stacy Co., of San Francisco, at \$24,310 submitted the low bid to the U. S. Bureau of Public Roads for 4,921 miles of Housecroft Canyon Highway in the Kaibab National Forest, Arizona. The engineer's estimate is \$243,537.

NEW INDUSTRY NEEDED TO USE OUR SURPLUS FUNDS AND ENERGIES

What will be the new, big industry which will use our surplus funds and energies? How are we going to get full employment throughout the nation when practically every industry is overproducing?

The question is asked in the Business Bulletin of the LaSalle Extension University of Chicago. —Editor.

Here is a problem that has many thinking business men stumped. It was well put in a letter recently received from a man who would like to be an unqualified optimist, who is a real thinker, but who can't find his way out of a dilemma which he expressed as follows:

"How in the world we are ever going to get full employment throughout the nation when practically every industry is overproducing is something not very pleasant to think about."

What Is There Left to Do?

It is easy to evade this question by platitudinizing about the many unfulfilled wants of the world and by pretending that were only a few "injustices" corrected so as to make it possible for every worker to acquire what he wanted, then the problem would solve itself. We all hope that this millennial situation will some day be realized, but all thinking men know that progress toward that goal has been long in the making and that it cannot be reached in a year. This year and the years just ahead are facing this problem. How can it be answered now?

This problem, looked at from a slightly different angle, ties right up with the use we make of our national income. For 1929, this is estimated as having been about \$30,000,000,000. That is the sum which we Americans had at our disposal to spend or save or invest. Exactly what we did with this money is impossible to determine, but roughly 50 per cent of it was spent in buying things in stores, etc.; 30 per cent was spent on services such as transportation, government and beauty specialists; and 20 per cent was saved and invested in buildings and factories and machinery. It is this last fraction which has been providing us as a people with our enormous facilities for efficient production of the things we buy, for rapid and luxurious transportation, and for splendid mass amusements.

And Where Invest Our Money?

You see now how our problem hinges largely on the way in which this last fraction is invested. So much has been saved and invested in more and bigger plants and more efficient equipment that overproduction, or, at least, overcapacity, presents serious difficulties. When these modern plants work at capacity and employ their men full time, they turn out more goods than folks will buy.

Is the answer, perhaps, to get folks to buy more? Yes, in part, but not entirely. The trouble is that folks who can afford to buy more things and services already are buying about as much as they care for. They prefer to save and invest their surplus income—yet, laudable as this impulse is, it contains the threat of still further over-expanding our productive capacity.

Did Autos Create Our Wealth?

The way out of our difficulty is shown us in the history of the automobile industry. Here was a device that seemed at first a rich man's toy. Yet so attractive a toy was it that, more and more generally, it became

"the thing" for which to work harder so as to earn more, and to save a little less for investing, in order to get one, too.

And thus was started an industry which has absorbed untold surplus billions and provided well-paid work for untold numbers of men who might otherwise have clogged our labor market. Notice that direct investment and direct employment in the industry are but a small part of this total. The automobile is responsible for the billions that are being spent on roads, for the vast expansion of the oil industry, and for a transformation of rural as well as city life, with all the developments and building that have resulted.

The automobile industry is probably correct in claiming for itself the chief part in the marvelous prosperity of our people.

The Auto Industry Needs No New Money

But now the automobile industry has largely done its bit. Its influence is still responsible for big road-building programs and the like. But the industry itself is unfortunately overbuilt to the point where it seems unlikely that it will ever produce cars at its capacity rate of 7,000,000 a year. It has little need, therefore, of attracting additional money out of this huge fund that seeks investment each year.

Clearly, then, we need now some new industry which will fire the imagination of our spenders and our savers. We need some industry into which our savings can be poured to produce something which many men will long for and buy. If in the making or servicing of that something multitudes of men will find good pay, so much the better.

Where Will Our Savings Go Next?

What will this new industry be? Who would hazard a guess? Perhaps it will be some industry now in its infancy. Some fancy that the radio has just such marvelous possibilities before it as the automobile had 20 years ago, with television and other unannounced marvels about to be developed.

The conquest of the air will be put forward, by others as the basis of an industry which will, for years, claim all our spare resources. Perhaps they will prove correct.

The chemical industry is visioning marvels also. New uses for old materials may turn upside-down many of our present processes for doing things, and vast investments and a vast amount of work may be needed to rebuild our industries.

Is Rebuilding Our Cities the Answer?

Or perhaps the new industry will arise through new emphasis on something folks want now, but are not yet insisting on. We might well get "all het up" over the dirt and smoke of our cities, for example, thus giving encouragement to the widespread use of gas, the banishment of horses, and work for thousands of men in keeping things clean. Or it may be noise which we resolve to overcome, involving extensive rebuilding of our abundant noise-making devices.

Or perhaps a far-reaching, wholesome civic consciousness will demand that our cities and our roadsides be made beautiful. Perhaps the cluttered rabbit-warrens in which a large share of our people still live will be rebuilt into sections where folks will be proud to live. Perhaps the rivalry between cities and states will bring this about unexpectedly soon.

And the men who sponsor the successful new industry will prosper!

THE OBSERVER

What He Hears and Sees on His Rounds

In my judgment, says H. C. Turner, president of the Turner Construction Co., we have reached a low point in the cost of buildings and the man with confidence in the future of this country will build now and at better prices than are likely to prevail again for some time to come. The cost of building construction remained fairly constant from 1923 to 1929. Increases in wages were offset by better management. Today building materials can be purchased at depression prices. You can judge how long this will continue. Wages have not been reduced, but efficiency has decidedly increased. With the surplus of skilled workmen, the most capable and skilled are employed with the obvious increase in performance and the constant reduction in labor cost.

Several years ago while attending a meeting of the construction interests in the Southern section of the state I was told by a general contractor that if the secretary of every Builders' Exchange in California was as active as "that fellow from Pasadena, we would have a state-wide organization second to none in the world."

The general contractor referred to George Israel, secretary-managed of the Pasadena Builders' Exchange.

"When Israel speaks, the building industry in Southern California listens," I was told.

Apparently my contractor friend was right.

In his latest exchange bulletin, Israel speaks. He asks "Why a Builders' Exchange?" and then proceeds to answer the question in the following style:

Why a Builders' Exchange?

That slogan was coined by a man who was, within his true self, one of the best friends the building industry as a unit and the building public of California ever had.

When you seriously think of the building industry in California, its great importance, its comparable investments in our state with any other industry in the state, its first ranking, necessity, you will have the answer to the above slogan.

I am thinking of the men who are this building industry, the inventive, constructive minds who have accomplished the seeming impossible. The architect, the engineer, the contractors in the many divisions, their visible efforts confront you everywhere you go.

The mind in the building industry stops at nothing. It defies the earthquake fault by filling the fissure with cement, spans the chasm that man may pass over, it seeks out the lonely canyons in mountains—and crags and rocks, lends to nature the handy work of the builder. In leaving the main highways which too unfortunately the traveler of the world seldom does, the panorama unfolds to you the many, many enterprises, commercial, educational, philanthropic, religious and recreational, which even old residents know little of, and with no possible exception these things have been done by you and your colleagues as builders. True, isn't it?

Now if this is all true, I want you to think seriously with me for the moment. Why should not the builders as a unit be just one big family?

Why should they not make themselves so clean, so outstanding, so honorable (which is the alpha and omega of self protection) among themselves that they will absolutely command the entire respect of the "ruling power" of every condition, viz.—The General Public.

I want you to put this down in the bottom of your "meerscham" and draw on it—when every member of the builders organization will tune in, be willing to do their part, promptly take care of their obligations to the parent body, demonstrated their willingness to work on committees, religiously come to meetings without being urged, think out and work on constructive suggestions, or—in simple language, support your officers and directors, and many members who have given their time and spent their change in traveling over the state during the past few years in working out the ground plan which is now recognized from the high financier, all down the line, and which is only now beginning.

Never for an instant overlook the fact that the leaders in any worthwhile movement come from men who conscientiously do their part, and that you should be one of them. When—

This comes to pass—your work will be your pleasure.

You have a family; yes—and as time passes the family separate, each going their own way—so long as the word often comes, "they are all well" and doing well," all is well, but—when sickness or distress comes to one of them, the wires flash, even the modern transportation is too slow—you are together again, and so California for the past score of years has been a happy go lucky, mad rush—you all have gone your own way, and all have been intoxicated, but there never was a sprayer where the awakening did not call for real judgment. I feel we are at this station right now, and if there ever was a time when men should come together in a common understanding—IT IS RIGHT NOW. Will the building industry do it? I know it will.

The outstanding facts in the Third Annual Report of the American Arbitration Association just issued are the linking up of trade associations in a unified national arbitration system, more than 300 such trade bodies being listed as participating in the work, and the increased use of its Tribunals by attorneys, 290 law firms having used its services.

Listed among the organizations participating in the educational work of the Association and identified with the arbitration system are the American Association of Engineers, American Face Brick Association, American Institute of Architects, Building Trades Employers Association, Long Island Real Estate Board, New York State Association of Real Estate Boards. Also associated with the Arbitration Association are the Builders Exchange of Los Angeles, Indianapolis Building Congress, New York Building Congress, Real Estate owners Protective Association. Lucius R. Eastman is President of the

American Arbitration Association and its Board of Directors includes Wm. D. Baldwin, W. J. L. Banham, Irving T. Bush, Irwin S. Chanin, Henry Ives Cobb, L. K. Comstock, Morton R. Cross, Frederick Brown, H. Hobart Porter and David A. Schulte.

Mr. Eastman's report lays particular stress upon the necessity for a careful preparation of arbitration agreements and calls attention to the number of appeals being made to the Courts to vacate awards because technical requirements are not observed. The Association has issued a Warning on Arbitration Clauses calling the attention of business men to the losses and inconvenience which result from vacated awards, and more than 60,000 of these warnings have been distributed throughout the country, together with instructions as to correct procedure for the guidance of the parties and the arbitrators.

The records of the Association indicate that in 1929, in its New York City Tribunals alone, 344 cases were submitted to arbitration, and in only four of these cases were appeals made to the Courts to have the awards of the arbitrators set aside. In three of the cases appealed the Courts upheld the arbitrators' awards and one case is still pending.

Overruling a recent "cease and desist" order of the Federal Trade Commission issued against the Berkey & Gray Furniture Co. and 23 other furniture manufacturing companies of Grand Rapids, the U. S. Circuit Court of Appeals for the Sixth Circuit in decrees entered June 28 held that the furniture factories of the United States and its possessions do not have to include the word "venerer" in all advertising of furniture not made from solid woods, according to the American Lumberman. The court sustained the position of the furniture manufacturers that virtually no fine furniture is made from solid woods. The court further held, sustaining the furniture men, that in calling their products walnut or mahogany, or by the name of any other wood, the manufacturers are not making a misrepresentation to the trade nor misbranding furniture, as was contended by the Federal Trade Commission. The Federal Trade Commission held that the furniture factories had, in their catalogs and invoices, referred to furniture being made of "mahogany" or "walnut" when large plain surfaces like table tops or panels are built up of cross laminations of other woods and faced with a thin layer or veneer of walnut or mahogany. The commission held that this trade practice involved unfair misrepresentation to the public and that in such catalogs or invoices the factories must specify that the article is "veneered."

The Portland cement industry in June produced 17,227,000 barrels, shipped 18,700,000 barrels from the mills and had in stock at the end of the month 29,348,000 barrels, according to the Department of Commerce. The production of Portland cement in June, 1930, showed an increase of 2.6 per cent and shipments a decrease of 9 per cent as compared with June, 1929. Portland cement stocks at the mills were 6.7 per cent higher than a year ago. The total production for the first half of 1930 amounted to 75,892,000 barrels, compared with 75,076,000 barrels in the like period of 1929. The total shipments for the first half of 1930 amounted to 70,137,000 barrels, compared with 70,248,000 barrels in the like period of 1929.

ALONG THE LINE

Hollis R. Thompson, for the past two years managing director of the Berkeley Chamber of Commerce, was installed as city manager of Berkeley last Monday, succeeding John N. Eddy, who resigned to accept a similar position in the East. Thompson, 31 years old, said to be the youngest city manager in the country, is a graduate of the University of California. He will receive a salary of \$7000 a year.

The city trustees of Carmel, Monterey County, will shortly appoint a new city engineer. The office of city engineer, held by D. H. Severance, was recently declared vacant.

TRADE LITERATURE

"How to Paint Concrete and Masonry Surfaces," a 20-page booklet published by the Medusa Portland Cement Co., Cleveland, Ohio, tells of the characteristics of Medusa portland cement paint and gives directions for painting concrete and masonry surfaces. Various sections of the book take up the use of cement paint in industrial and railroad work and in other types of engineering construction.

Osthoff & Co. of San Francisco has opened a branch factory at 349 Eleventh St., Oakland. The company manufactures electric signs. A specialty is made of process work. C. F. Goss is Oakland manager.

Bulletin 111 of the Chicago Pump Co., Chicago, Ill., gives a large amount of data on pneumatic water-supply systems, including a history of the development of such systems, an explanation of the special equipment used, assembly and layout suggestions, and engineering tables and specifications.

NATIONAL ELECTRIC LIGHT ASSOCIATION PRAISES S. F.

San Francisco was highly commended as a convention city by the thousands of delegates attending the National Electric Light Association Convention during June. In fact, the feeling of appreciation for their reception was so strongly apparent that the following official declaration on the subject was made by Mathew S. Sloan, retiring president of the association:

"The cordiality of San Francisco to visiting delegates has never been equalled in the history of the association and I am sure that the city will eventually profit by its reception to us. That treatment presages an early return here for a future convention. We have never been treated more courteously or welcomed more enthusiastically and we want San Franciscans to know how we feel about it."

HERE — THERE — EVERYWHERE

Wm. H. McGlinchey of City Hardware Co., 11 Main St., plaster contractor, James Quaglino of the County Hooding Service, J. H. Kirk of the S. P. Lumber Yard, and H. M. Holzinger of the San Luis Mill & Lumber Co., have been admitted to membership in the newly formed Builders' Exchange of San Luis Obispo County.

Governor John H. Trumbull, president of the Trumbull Electrical Manufacturing Company, a recent visitor to Oakland, announced his firm plans to establish a Pacific Coast manufacturing plant. It is possible, Trumbull said, that the plant will be located in Oakland.

The American Institute of Architects' safety code for construction work, which is being considered by the Sectional Committee of the American Standards Association in connection with the development of a national construction code, has been adopted by the New Jersey Legislature. It was approved by the Governor on April 18.

Three hundred structural iron workers, who walked out at Kansas City July 1 asking a daily wage of \$12, returned to work last Tuesday under an agreement which permits the building of several skyscrapers to continue, and will be effective for two years. A 50 cent increase in wages, making then \$10.50 a day, is effective at once. On January 1 the pay will be \$11.

A total of \$287,270,000 for public improvements, construction, industrial expansion and motion picture production will be spent in the Los Angeles area during the next six months, according to figures announced by the Los Angeles chamber of commerce.

The figures are divided as follows: Construction, public improvements and expansions will require expenditure of \$187,120,000 and require an estimated 10,200 men.

Movie production will require an expenditure of \$100,000,000 and require an average of 3000 more men.

The above figures do not include work already under way or the commencement of work on Boulder Dam but only work in the immediate Los Angeles area.

The city of Los Angeles will spend approximately \$34,500,000 during the next six months on public improvements. Of this amount the board of public works calls for an expenditure of approximately \$8,000,000.

WESTERN HIGHWAY ENGINEERS ELECT OFFICERS

All officers of the Western Association of State Highway Officials were re-elected at the conclusion of the fourth annual convention at Salt Lake City, July 3.

The officers are: Henry H. Blood, chairman of the Utah State Road Commission, president; Z. E. Severson, Wyoming state highway engineer, vice president; J. D. Wood, Idaho, state commissioner of public works, secretary; Blood, Wood, L. I. Hewes of the bureau of public roads, O. S. Warden of Montana and W. C. Davidson of New Mexico, members of the executive committee.

TRADE NOTES

Inertel Co., Inc., New York City, has opened a branch office at 447 Sutter St., San Francisco. B. W. Mueller has been appointed Western manager, in charge of the office.

Milcor Steel Co., Milwaukee, Wis., is the new name adopted by the organization formerly known as the Milwaukee Corrugating Co. and its subsidiaries. There will be no change in management.

General Electric Co., Schenectady, N. Y., has divided the industrial heating and welding section of the industrial department into two sections to be headed by C. L. Ipsen as manager of sales for the industrial heating section and L. D. Meeker for the electric welding section.

Belyea Truck Company, 3128 East Twenty-sixth St., Los Angeles, has just purchased the business of the Western Crane Service Company of that city and will operate it in conjunction with its own crane service department. A number of the operators of Western Crane Service Company were retained.

MILLIONS ADVANCED FOR HOME BUILDING

That building-loan associations are strongly supporting the intensive campaign of homebuilding now underway throughout California is indicated by the fact that during the last three months 39481 new loans aggregating \$33,042,563.21 have been made by these institutions. The total number of loans in force to date is 132,882, amounting to \$418,101,599.48.

Call reports recently made to Charles Whitmore, State Building-Loan Commission, show that there were 6466 flat loans totaling \$50,-\$56,996.51 in force on April 1, a decrease of 4482 loans aggregating \$17,980,670.82 as compared with those held on September 30, 1929, indicating that a conservative, safe loan policy is being followed by the associations with regard to this class of financing, Commission Whitmore stated.

STANDARDS OF DESIGN FOR CONCRETE

A new engineering treatise entitled "Standards of Design for Concrete" has been published by the Bureau of Yards and Docks, of the Navy Department. This work is the result of an intensive study of past and current practice in concrete design, and includes several new developments in this field, which constitute distinct improvements over former practice.

"Standards of Design for Concrete" has been complemented by some of the high engineering authorities of the country, and owing to the interest of many activities of the Government in this type of construction, this publication should prove of great value to engineers, and others interested in concrete design. The booklet is obtainable from the Superintendent of Documents, Government Printing Office, at 50 cents per copy.

**SACRAMENTO PAINTERS UNION
WOULD DEPORT ALIENS**

Deportation of all Mexicans, Japanese and Filipinos and other aliens who have not declared their intention of becoming citizens of the United States is recommended in a resolution adopted by the Painters' Union, No. 487, of Sacramento.

The painters declare the three peoples affected in the resolution "seriously and grievously lower the high standards of living that we try to uphold." The resolution, as adopted, is as follows:

Whereas, there are many Mexican, Japanese and Filipino peoples in California that have no right to be here, and,

Whereas, these peoples do seriously and grievously lower the high standards of living that we try to uphold, and,

Whereas, these peoples who have not their first papers announcing intentions of citizenship, and,

Whereas, these people who cannot read, write and speak the English language, and,

Whereas, these peoples who have become stranded and desire transportation back to their own countries, therefore, be it

Resolved: We, Local Painters' Union No. 487, of Sacramento, California, in regular session, do petition the county, state and national governments to adopt such methods and means as will deport these peoples.

**HEAT TRANSFER IN AMMONIA
CONDENSERS**

Bulletin No. 209 of the Engineering Experiment Station of the University of Illinois contains a report of the progress made in the investigation of the heat transfer in various types of ammonia condensers since the publication of Bulletins 171 and 186. The former dealt with the performance of three types of ammonia condensers, namely, the atmospheric bleeder, the double pipe, and the vertical shell-and-tube; the latter with results obtained when certain changes were made in the design and operation of the vertical shell-and-tube condenser and with results from a study of the heat transfer in a double-tube superheat remover. The present bulletin contains results from a study of the performance of a horizontal shell-and-tube condenser.

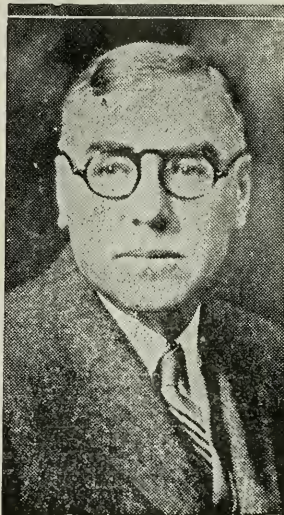
The objects of the investigation were: to determine the coefficient of heat transfer and performance characteristics of the condenser with the water passing in parallel through the two shells and with various rates of flow and initial temperatures for the water; to determine the effect of the pressure of the ammonia in the condenser on the coefficient of heat transfer and the performance characteristics of the condenser; to determine the performance characteristics when the condenser was operated with one shell alone, and also with the water passing in series through the two shells instead of in parallel; to determine the rate of scale formation, or fouling of the tubes, and the effect of such fouling action on the coefficient of heat transfer for the condenser.

Copies of Bulletin No. 209 may be obtained without charge by addressing the Engineering Experiment Station, Urbana, Illinois.

**SUPER-HIGHWAY SURVEY
IS STARTED BY STATE**

Actual work on the East Bay-shore Richmond to San Jose super-highway has been started. Arrival of survey engineers on the ground to make studies of routing is announced by C. H. Purcell, State Highway Engineer, to the California State Chamber of Commerce.

The starting of the actual work culminates a two year fight of the civic leaders of the East Bay shore and members of the Central Coast Highway Committee of the State Chamber of Commerce. The work necessitated the bringing together in agreement the supervisors of the three counties involved with the state highway officials.



C. H. PURCELL
State Highway Engineer

Following the completion of the survey a joint highway district will be formed for the actual construction of the road.

A statement from the committee states in part: "The need for a high speed super-highway skirting the bay-shore from San Jose to Richmond serving east-bay cities has long been felt and urged by eminent engineers and city planners. The Committee is pleased to acknowledge the cooperation and support of the supervisors of the counties of Alameda, Contra Costa and Santa Clara, and is highly pleased with the progress being made toward the realization of this project."

The committee members of the State Chamber who have been working for the construction of this super-highway are: J. H. Fuller, Harry Goodridge, E. M. Hunt, Geo. N. Randall, Chester Hunt, Mel Auerbach, R. E. Chandler, I. S. Shattuck, E. A. Hoffman, Ralph S. Hawley, H. Y. Stuart, R. R. Arnold, W. W. Scott, Geo. A. Posey and E. D. Landels.

Unfilled orders of the United States Steel Corporation declined 91,163 tons in June to a total of 3,968,064 tons on June 30. The May decrease was 294,993 tons. The backlog on May 31 was 4,059,227 tons. On April 30 unfilled orders aggregated 4,354,220 tons, on March 31 the total was 4,570,653 tons and on June 30, 1929, the total was 4,256,910.

**POPP, SAN JOSE ENGINEER, RE-
TURNS FROM MEXICO**

W. L. Popp, city engineer of San Jose, at a meeting of the San Jose Engineers' Club last Tuesday told of his recent trip into Mexico and Lower California.

The trip into Mexico is well worth taking, Popp advised, for it offers complete change of scenery and an easy opportunity to observe fairly primitive people. Prohibition in the United States has resulted in noticeable changes in Mexico in 10 years, he said, the building up of a few fine hostleries and the tremendous increase in liquor prices.

At Agua Caliente, for instance, he stated, he found prices of meals very reasonable, but on every side he noticed people drinking liquor with their meals that was very costly.

After a short visit at Agua Caliente, Popp went to Ensenada, the new capital of Baja California, a very primitive Mexican village. The town has an old fort garrisoned with Yaqui soldiers who begin the maneuvers each morning at 4 o'clock with a bugle drill lasting as long as an hour.

One reason for the expense of staying in good hotels, Popp explained, is the fact that officials and their friends stay in hotels without cost, the management realizing that they have to "put up" officials without charging them. Another reason, he added, is the tendency of the Mexican government to raise taxes whenever a business seems to be making a profit, causing a race between the prices the public pays and the taxes charged by the government.

**RUSSIAN LUMBER, HELD AS CON-
VICT MADE, ADMITTED**

Assistant Secretary Lowman rules that six shiploads of Russian lumber imported by the A. C. Dutton Lumber Company at Poughkeepsie, New York, should be admitted to this country, as it had not been proved that it was produced by convict labor.

Two shiploads of the lumber arrived at Poughkeepsie and Providence, R. I., last week and were denied entrance by customs officials under the tariff act which provides that articles produced wholly or in part in any foreign country by convict labor shall not be entitled to entry.

Four other shiploads of lumber are on the high seas and Lowman instructed customs collectors that they should be admitted.

Lowman's decision was the result of a hearing at which importers of pulp wood and the Amtorg Trading Corporation, the Russian commercial organization, testified the lumber had not been produced by convict labor.

**STATE MAY AID IN GOLDEN GATE
BRIDGE CONSTRUCTION**

Directors of the Golden Gate Bridge and Highway District have the opinion of Attorney General U. S. Webb that state moneys may be spent for the construction of approaches at both ends of the proposed Golden Gate bridge provided they are not taken from the state gasoline tax.

Webb also ruled that in view of the quasi-municipal character of the district the bridge, after it is paid for, may be taken over by the state thru condemnation and operated on a toll-free basis. The district established by the legislature, can be dissolved by the same body, he said. The opinions were requested by B. E. Meek, director of the state department of public works.

PROGRESS IN STATE HIGHWAY CONSTRUCTION CITED BY ENGINEER

Outstanding accomplishments in state highway construction for the year 1929 were the reduction in roughness and the increase in average daily production of both Portland cement concrete and asphaltic concrete mixtures, according to a review of the season's work by Earl Withycombe, assistant construction engineer of California Division of Highways, State Department of Public Works.

"The best machine-finished asphalt concrete project averaged but 3 1/2 inches of roughness per mile greater than the best Portland cement concrete projects," declares Mr. Withycombe in his report.

"The record average daily production of Portland cement concrete pavement has been increased to 361.5 cubic yards. This figure is obtained by considering each start of the mixer as a day's run and represents approximately 90.4 per cent of the maximum output that could have been secured had there been no delays.

"The high daily average of asphaltic concrete tonnage has been increased to 790.7 which represents 72 per cent of the maximum obtainable without delays.

Cement Concrete Pavements

"Mix—The maximum density method of proportioning coarse aggregate with the amount of fine aggregate governed by the resulting voids in the coarse aggregate and with a definite amount of excess for workability, constitutes the method of design of mixtures. The amount of cement is held uniformly to six sacks per cubic yard of concrete actually placed. As an experimental section, a day's run of concrete on one of the larger jobs of last season's construction was proportioned with but 4.82 sacks of cement to the cubic yard in an attempt to produce a compressive strength of 3500 pounds per square inch at 28 days.

"The average for a series of casts from this mix was 3690 pounds or 84.4 per cent of that produced from the same job with six sacks of cement to the cubic yard.

"Design—Panels are uniformly 10 by 20 feet with thickened longitudinal edges. Provision for expansion is made at 60-foot intervals and under special conditions at 40 feet. The intermediate joints are of the weakened plane type. A double line of one-half inch square deformed marginal bars is placed around all sides of the panel and held in place, four inches from the edge, by steel chairs driven into the concrete. One end of all longitudinal steel is extended through the joint and fitted with a sleeve to serve as a dowel. Three additional three-quarter-inch round dowels are provided at expansion joints with provision for expansion at the ends of the dowels and the steel.

"Construction—Central proportioning by weighing each of the coarse aggregates, above and below the one and one-half inch screen size, and the sand in separate boxes was uniformly practiced during the past season.

"All construction was in 10-ft. widths with the exception of one project where, for the convenience of traffic, 20-ft. construction was permitted with a weakened plane longitudinal joint. The slab was poured from the side with an extension boom on the mixer.

"It was definitely proven in last season's construction that delayed finish resulted in smoother riding surfaces, and this is being practiced on all subsequent work. Nearly all jobs have increased production to the point where two finishing machines or two heavy longitudinal floats are necessary in order to secure compaction, and

delayed finish is secured by maintaining the maximum interval between the two machines or the floats, as the case may be.

"Pavements are opened to traffic, following an 8-day watering period, on the basis of strengths developed by beams cast and broken in the field.

"Result of Tests—The average compressive strength of pavement concrete during 1929 for the entire state was 3320 pounds per square inch. This represents 24 projects. Of these 24 projects, 17 were selected by headquarters representatives to cast a special series of 10 to 15 cylinders for 28-day comparisons. The average strength from the job cylinders for these projects was 3940 pounds per square inch, as compared to 4365 pounds average on the basis of the casts made by headquarters.

"Of the jobs selected for casting by headquarters, seven were selected by the laboratory for coring. The laboratory cores, after being corrected for height and age, show an average compressive strength of 4894 pounds per square inch, the corresponding headquarters casts show 4401 pounds, and the field casts show 3348 pounds per square inch. Assuming that the cores represent the true strength of the concrete in the pavement it would appear from this analysis that the headquarters casts represent 67 per cent of the actual strength of the concrete and the field casts but 79 per cent.

"In the past it has been the practice to include in the 6-inch by 12-inch cylindrical cast a true representation of all the aggregate contained in the pavement mixture. It was questionable whether the maximum size aggregate, two and one-half inch material, did not unduly influence the resulting strength in a cylinder of such dimensions, and it was later proven by our own investigations that such was the case. It then became a question as to the advisability of increasing the dimensions of the specimen to take care of the maximum size of rock or uniformly eliminating from the material selected for casting all of the aggregate above a certain screen size. To increase the size of cylinders would have resulted in discarding a considerable portion of the field and laboratory equipment. It has been decided to screen the mixture on a one and one-half inch square mesh prior to casting in order to secure uniformity.

Asphalt Concrete Pavements

"Mix—Since the latter part of the 1929 construction season mixtures are being designed and controlled by means of the stability test of the mortar content. The fine aggregate of a project is selected prior to the letting of the contract by means of relative stability values and often a convenient source of sand that would otherwise be rejected on the basis of specification requirements for sieve analysis is accepted if these stability values are satisfactory. This method has resulted in a wider use of local materials with a consequent greater economy in the price per ton of the mixtures in place.

"Samples are taken at two-hour intervals during the operation of the plant, screened through the 10-mesh sieve while yet warm and submitted daily to the laboratory for a stability test. A rational use of this stability value is attempted at all times. Realizing the danger of sacrificing the quality in the resulting pavement that prolong its useful life, no attempt is made to secure unreasonably high stability values.

"Imported filler is not used in either base or leveling course mixture, but is maintained at approximately 3 per

cent of the total dry mixture for the surface course.

"Design—Black base construction, on new subgrade, has come into more general use during the past season. Base course varies from four to five inches in center thickness, according to local conditions, and surface course is uniformly two inches in thickness over the full width. The outer edges of the pavement are uniformly thickened to nine inches corresponding to the Portland cement concrete section. A sub-base of natural cementing material is used under the pavement where local soil conditions are unfavorable for subgrade.

"Construction—Some hand finish was permitted on work during the past season, but this type is rapidly being abandoned for the superior machine-finished work.

"Mixing plants are now being manufactured and in use on state work with a capacity of nearly three times that of the plants in general use a few years ago. The use of such plants has been made possible largely by the increase in capacity for handling tonnage on the street with machine methods. These plants have not as yet been brought up to their normal capacity for the duration of the job, but the delays can be attributed largely to the plant rather than to street operations. The maximum tonnage secured in eight hours on state work to date is slightly more than 1100 tons."

U. S. GOOD ROADS ASSOCIATION ELECTS OFFICERS

T. L. Kirkpatrick of Charlotte, N. C., was unanimously elected president of the United States Good Roads Association and Charlotte was selected as the 1931 meeting place of the organization, at its session in Oklahoma City.

Low Wentz, president of the Oklahoma State Highway Commission, was elected first vice-president of the association. Next year's convention will be held the first week in May.

Following election of officers, the report of the resolutions committee was read in which the association commenced President Hoover and congress for their "generosity and vision" in increasing the annual appropriation for federal aid to good roads from \$75,000,000 to \$125,000,000 and recommended the annual appropriation be increased to \$200,000,000 and placed on a continuing basis, as an investment proposition.

The association went on record as requesting that congress create a secretary of highways as a cabinet officer, in the belief that "the importance of good roads is such and transcontinental highways are so vital to the welfare of the republic" as to make such an office a necessity.

WOODSON NAMED MANAGER OF NICOLAI DOOR SALES CO.

Larue J. Woodson has been appointed general manager of the Nicolai Door Sales Company with headquarters at Nineteenth and Harrison Sts., San Francisco. Woodson succeeds J. C. Haring, retiring manager.

Woodson for the past ten years was Northern California representative for the Wheeler Osgood Company and his long experience in the industry eminently qualifies him for his new position.

Wm. H. Klinsenberg, well-known to the sash and door trade of California, has been named assistant manager in charge of sales.

WESIX, INC., WINS SUIT OVER PATENT

In a decision rendered last Monday by United States District Judge Kerrigan, H. E. Sandoval and Sandoval Sales Company, agents for Apex Manufacturing Company of Oakland, manufacturers of Apex heaters, were adjudged infringers of letters patent as Wesix electric heaters and an injunction was ordered restraining them from further infringement, together with an order for an accounting of the profits and damages.

W. Wesley Hicks, president of Wesix, Inc., in commenting upon the decision, says:

"The effect of this decision goes far to sustain the position of Wesix as the pioneer in the development of major electric heating and reinforce the company's leadership in that art, giving it a virtual monopoly in the field of major electric space heating."

U. C. MEN COMPLETE FORESTRY TEST WITH HONORS

Word has just been received by Walter Mulford, professor of forestry at the University of California, that seven out of eight candidates from the University successfully passed the Civil Service Examination for entrance to the United States Forest Service. Three of the men took first, third and fourth places among 140 candidates examined, only one-third of whom passed.

Those recent graduates in forestry who took first, third and fourth places, were, respectively, F. W. Grover of Nevada City, Peter J. Van Huizen of Ukiah, and C. C. Buck of Oakland.

Grover made a record in the written part of his examination of 89.9 per cent, which is apparently the highest that has ever been made in the 25 years that civil service examinations in forestry have been offered, with the exception of one other record. That one other record was made by another graduate student of forestry at the University of California, Howard W. Siggins of Oroville, several years ago.

This means that two of the three highest marks ever awarded in forestry civil service were garnered by University of California students. The fact that three of California's entries this year received better than 85 per cent in the examination is considered phenomenal.

TENSION TESTS OF RIVETS TOLD IN BULLETIN

The objects of the investigation reported in Bulletin No. 210 of the Engineering Experiment Station of the University of Illinois were to determine the strength of rivets in tension and to determine the initial tension in rivets.

All rivets used in the investigation had a nominal diameter of three-fourths inch. Some rivets were driven with an air hammer, others with a press riveter. The influence of a number of variables was determined, as follows: type of head, length of grip, temperature of rivet when driven, and time required to drive the rivet. The head that was formed when the rivet was manufactured was designed as the "manufactured" head, and the head that was formed when the rivet was driven as the "driven" head. The manufactured head was a button head for all rivets used; the driven head was either a button head, a button head flattened to three-eighths inch, a head that was count-

ersunk and not chipped, or a head that was countersunk and chipped. The grip of the rivets varied from 2 to 6 inches. The temperature of the rivets was designated by their appearance. Some were driven when cold, others when at a dull red heat, at a cherry red heat, at a white heat, when burned, and when badly burned. The time elapsing during the driving varied with the grip and with the method of driving.

The test to determine the strength for rivets in tension were made in triplicate and those to determine the initial tension in quadruplicate. There were 27 groups of three rivets each in the first series, and 34 groups of four rivets each in the second.

Copies of Bulletin No. 210 may be obtained without charge by addressing the Engineering Experiment Station, Urbana, Illinois.

FEDERAL ENGINEERS START SURVEY FOR DAM

Anticipating the construction of the \$80,000,000 Kennet Dam on the upper Sacramento River as part of a co-ordinate state-wide water program, A. E. McKennett and fifteen army engineers are at the dam site making surveys.

The party will be at work until October, making the location surveys for the Southern Pacific Railroad as it will have to be after the dam, estimated at 520 feet high, is completed.

The dam, it is explained, would back the river upstream forty miles flooding the rails of the Southern Pacific.

The first work is to route the railway between Kennett and Coram, to put "warp and loom" on the road.

ELECTRICAL RECORD WANTS STANDARD PRODUCTS

The purchase and sale only of standard products is urged upon the electrical industry by Stanley A. Dennis, editor-in-chief of the Electrical Record in an outline of that publication's ten objectives for the year of 1930. Under the heading "Buy and Sell Standard Products Only," Dennis says: "The fight against substandard products of all kinds grows hotter and hotter each year, and more hopeless for the makers of the substandard goods. Manufacturers of flexible cord have recently made excellent progress in enabling the industry and the public to identify substandard cord. The same sort of thing must be done sooner or later with reference to all wiring devices and appliances as well. Lasting profits will be built only on standard products. Buy, sell, and install no other kind."

Another of the objectives of the publication in its editorial program is to "push the sale of lower price standard appliances." "Notice, please," says Dennis, "that the emphasis is on 'standard' as well as on 'lower-priced.'"

ERNEST KUMP SELECTED ON VISALIA SCHOOL UNITS

Ernest J. Kump of Fresno has been commissioned by the Visalia High School District to prepare plans in connection with improvements to the high school plant involving an expenditure of \$210,000. Bonds to finance the work were recently voted and will be offered for sale on August 19. The work will involve classroom additions and a new auditorium building.

CITY WILL ACCEPT ELECTRIC METALLIC TUBING

S. C. Curtis, chief inspector of the San Francisco Department of Electricity announces that electric metallic tubing, or thin walled conduit, will be approved for use by this department when the same is run exposed inside of buildings and is installed according to all rules pertaining to the same in the 1930 Underwriters' National Electric Code, Sections 508 and 510, Pages 55, 56, 57, 58 and 59.

CITY WILL ACCEPT ELECTRIC METALLIC TUBING

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PAINT PLANT IS PROPOSED AT RICHMOND

E. F. Duffy is president of a company planning immediate construction of a plant at Thirteenth St. and the Santa Fe R. R. tracks in Richmond, for the manufacture of fire-resistant paint. The plant will be located on a site 265 by 125 feet. Construction of the first unit will be started within the next three months, Duffy announces. W. C. Dohrmann will manage the plant.

SIGN WAGE SCALE

The present scale of wages for employees of the Shell Oil Company will continue through another year, it was announced at the conclusion of a conference between Shell executives, representatives of the employees and conciliator of the federal department of the labor bureau. Those affected by the agreement are employed in the oil fields, production, pipe lines, refineries and automotive departments. The agreement is effective from August 31, 1930, to August 31, 1931.

DECLINES CONVENTION POST

Declaring that his civic duties come first, City Manager Clifton E. Hickok of Alameda declined a request to serve as chairman of the local committee in charge of arrangements for the International City Managers' Association Convention to be held in the bay region September 24 to 27. About 200 city managers from all parts of the United States and Canada are expected to participate in the convention, the business sessions of which will be held in San Francisco.

SAN DIEGO CONTRACTOR TO WITHDRAW SEWER BID

O. U. Miracle of San Diego, low bidder for the construction of a sewer system in the industrial district of Richmond, has petitioned the city council to release him from his bid of \$99,209, claiming an error.

The estimate of E. A. Hoffman, city engineer, is \$110,000. Jasper-Stacy Co. of San Francisco was second low bidder at \$139,946. Two other bids ranged as high as \$186,857.

Consideration of the release has been postponed by the city council for one week.

Building News Section

APARTMENTS

Sub-Figures To Be Taken.
APARTMENTS Cost, \$25,000
SAN MATEO, San Mateo Co., Calif.
 219 Ninth Ave.
 Two-story frame and stucco apart-
 ments.
 Owner and Builder—F. S. French, 17
 Alviso St., San Francisco.
 Architect—None.

Bids Opened—Held Under Advise-
 ment
ALTERATIONS Cost, \$50,000
SAN JOSE, Santa Clara Co., Calif. W
 Santa Clara St.
 Alter present building for three-story
 apartment house (46 rooms).
 Owner—Paul Masson Building.
 Architect—W. H. Weeks, Hunter-Du-
 lin Building, San Francisco; 1736
 Franklin St., Oakland, and Bank
 of Italy Bldg., San Jose.

Following is a complete list of bids:
General Contract
 N. J. Nielsen, 1255 Iris Court,
 San Jose \$45,300
 The Minton Co., Mt. View \$8,742
 N. H. Sjöberg & Son, Call Bldg.,
 San Francisco 48,448
 Frank Neves, 891 Harrison St.,
 San Jose 49,998
 C. N. Swenson, Washington St.
 San Jose 50,574
 J. P. Groden & Co., 1023 San
 Antonio Ave., Alameda 52,150
 R. O. Summers, 17 N 1st Street,
 San Jose 57,386

Electric Work
 Gilbert Bros., 286 W Santa Clara
 St., San Jose \$1933
 Roy Butcher, 1020 Sherwood St.,
 San Jose 2493
 Coast Electric Co., 952 Folsom
 St., San Francisco 3500
Heating
 Scott Co., 243 Minna St., S. F. \$3600
 San Jose H. & V. Co., S. J. 3890
 W. W. Turner & Sons, 533 N 19th
 St., San Jose 4458
 Jm. Serpa, 497 N 13th St., S. J. 4575
 H. J. Pascoe, 208 W Santa Clara
 St., San Jose 4966

Sub-Contracts Awarded.
APARTMENTS Cost, \$25,000
MILBRAE HIGHLANDS, San Mateo
 Co., Calif.
 Two-story frame and stucco apart-
 ments and store building.
 Owner—Milbrae Highlands, Inc.
 Architect—Charles Strothoff, 2274 15th
 St., San Francisco.
Concrete—C. C. Sayre, 541 26th Ave.,
 San Francisco.
Lumber—Christenson Lumber Co., 5th
 and Hooper Sts., San Francisco.
Plumbing—P. H. Phillips, 176 Judson
 St., San Francisco.

Segregated Contracts Awarded.
ALTERATIONS Cost, \$40,000
SAN FRANCISCO, NW Bush St. and
 Polk Street.
 Alter present apartments.
 Owner—Estate of Louis Freidman.
 Architect—S. Heiman, 605 Market St.
**Heating, Plumbing and Electric Wir-
 ing**—Frank J. Klimm, 456 Ellis St.
Painting—D. Zelinsky, 151 DeHar-
 o Street.
Carpentry—Louis J. Cohn, 1 DeHar-

Completing Plans.
APARTMENTS Cost each, \$40,000
SAN FRANCISCO, W Twenty-fifth
 Ave. S. Cabrillo St.
 Two three-story and basement frame
 and stucco apartments (six 2-room
 and six 3-room apts.)

Owner and Builder—Fred Anderson,
 156 Granada St.
 Architect—Irvine & Ebbets, Call Bldg.
 Bids will be called for in about one
 week.

Plans Being Revised
APARTMENTS Cost, \$160,000
SAN FRANCISCO, Richmond Dist.
 Six-story and frame and brick apts.
 (40 2- 3- 4- and 5-room apts.)
 Owner—Name withheld.
 Architect—Irvine & Ebbets, Call Bldg
 Bids will be called for in a week.

Sub-Bids To Be Taken.
APARTMENTS Cost, \$75,000
SAN FRANCISCO, NW Divisadero
 and Jefferson Sts.
 Three-story frame and stucco apart-
 ments (Spanish type; brick base-
 ment; 15 3-room apts.)
 Owner and Builder—Viggo Rasmus-
 sen, 2290 Francisco St., S. F.
 Architect—Irvine & Ebbets, Call Bldg
 San Francisco.
 Sub-bids will be taken in a few days

Completing Plans.
APARTMENTS Cost, \$300,000
LOS ANGELES, Cal. Wilshire Dist.
 Eight-story and basement Class A
 reinforced concrete apartments
 (50 apts.; 40x122 feet).
 Owner—Withheld.
 Architect—Thomas P. Barber and
 Paul Kingsbury, 628-29 Union In-
 surance Bldg., Los Angeles.

BONDS

SANGER, Fresno Co., Cal.—Election
 will be held July 26 in Oakhurst School
 District to vote a direct tax for \$420
 to finance repairs to school and pur-
 chase school equipment. Trustees of
 the district are Paul H. Gillis and J.
 W. Fletcher.

ALTURAS, Modoc Co., Cal.—Elec-
 tion will be held July 23 in Willow
 Ranch School District to vote bonds
 of \$2000 to finance school improve-
 ments. Trustees of the district are:
 J. M. Thompson, W. D. Bishop and
 J. A. Koskela.

VINELAND, Kern Co., Cal.—Elec-
 tion will be held August 4 in the Vin-
 eland School District to vote bonds of
 \$12,000 to finance erection of a new

A Demonstration of the
**SKILSAW PORTABLE ELECT-
 RIC HAND SAW**

Will solve your cutting problems.
 (Four Models, 1/2 to 1 h. p.)

**ELECTRIC HAMMERS
 ELECTRIC DRILLS
 GRINDERS, BUFFERS**

PETER H. NELSON

Labor Saving Portable Electric
 Tools.

1222 Mission St.
 San Francisco

Underhill
 1267

school. Trustees of the district are:
 J. E. Michaels, John Francis and A.
 J. Fowler.

GILROY, Santa Clara Co., Cal.—
 Gilroy School District votes direct
 tax of 30 cents per \$100 to finance im-
 provements at the Church Street
 School, for paving at the Jordan
 School and the purchase of a school
 bus.

CHURCHES

Additional Sub-Contracts Awarded.
ALTERATIONS Cost, approx. \$50,000
SAN FRANCISCO, Van Ness Avenue
 and Broadway.

Alterations to exterior of church.
 Owner—Roman Catholic Archbishop
 of San Francisco, 1100 Franklin St.
 Architect—H. A. Minton, Bank of Italy
 Building.
 Contractor—J. E. Scully, Phelan Bldg.
Ornamental Iron—California Artistic
 Art Metal Co., 349 7th St.

Plastering—Peter Bradley, 639 Bran-
 nan Street.
Cast Stone—Henry Gregorie, 357 12th
 Street.

As previously reported granite
 awarded to California Cut Stone Co.;
 terra cotta to Gladding-McBean and
 Co., 660 Market St.; stone to Robert
 Murray.

Plans Being Figured.
ADDITION Cost, approx. \$25,000
OAKLAND, Alameda Co., Cal. 26th
 Street and Broadway.
 Hollow tile addition to present church
 Owner—First Presbyterian Church,
 (Rev. Frank Silsley, Pastor).
 Architect—Jos. J. Rankin, 26 O'Far-
 rell St., San Francisco.

GILROY, Santa Clara Co., Calif.—
 Presbyterian Church congregation is
 preparing a program of socials to se-
 cure funds to finance erection of a
 modern Sunday school plant and so-
 cial hall in addition to renovating the
 present church building. Mrs. F. J.
 Bergwitz is chairman of the building
 committee.

Plans Being Prepared
PARISH MANSE Cost, \$3000
GARBERVILLE, Humboldt Co., Cal.
 Parish manse.
 Owner—El River Presbyterian Par-
 ish Church, Rev. Harold G. More-
 house, Pastor, Garberville.
 Plans by Miss Helen Benbow, %
 Benbow Co., Garberville.

FACTORIES AND WARE- HOUSES

Sheet Metal Contract Awarded.
FACTORY Cost, \$10,000
SAN FRANCISCO, NW Shipley St.
 bet. Fourth and Fifth Sts.
 One-story steel factory ad pipe stor-
 age building.
 Owner—Cyclops Iron Works, 337 Fol-
 som St., San Francisco.
 Engineer and Mgr. of Constr.—H. C
 Vensano, 58 Sutter St., S. F.
Sheet Metal—Guillfooy Cornice Works,
 1234 Howard St., San Francisco.

As previously reported, structural
 steel contract awarded to California
 Steel Co., Hobart Bldg., San Fran-
 cisco.

Contracts Awarded.

CHEMICAL PLANT Cost, \$—
NICHOLS, Contra Costa Co., Cal.
Near Pittsburg on 613 acre site.
Chemical plant (comprising group of
fireproof structures)
Owner—Shell Chemical Co. (subsidiary
company of Shell Oil Co., San
Francisco).

Architect—Eng. Dept. of Owner, Shell
Oil Bldg., San Francisco.

Small Office Building—Geo. Wagner,
181 South Park, San Francisco.

Spur Track—United Commercial Co.,
Inc., 213 Stewart St., San Fran-
cisco.

Miscellaneous Grading—The Hutchin-
son Co., 1450 Harrison St., Oak-
land.

Foundation—Barrett & Hilt, 918 Har-
rison St., San Francisco

Steel For Various Small Buildings—
Judson Pacific Co., 609 Mission
St., San Francisco.

Steel—Herrick Iron Works, 18th and
Campbell Sts., Oakland, and Pacifi-
c Coast Engineering Co., Foot
of 14th St., Oakland.

Plans Being Figured—Bids Close July
30, 11 A. M.

BUILDINGS Cost, \$11,000
STOCKTON, San Joaquin Co., Calif.
County Fair Grounds.

Three frame livestock buildings (com-
position roofs).

Owner—County of San Joaquin.

Architect—W. J. Wright, Mail Bldg.,
Stockton.

Plans Completed

ENCLOSE WHARF Cost, \$3200
STOCKTON, San Joaquin Co., Cal.
Enclose one-half of municipal wharf
(for protection of stored cargoes)
Owner—City of Stockton.
Engineer—Lyle Payton, city engineer.

Sub-Contracts Awarded.

CLEANING PLANT Cost, \$6000
BURLINGAME, San Mateo Co., Cal.
215 Highland Ave.

One-story class B concrete dyeing &
cleaning plant.

Owner—James P. Britt, 1621 S El
Camino, San Mateo.

Architect—William Toepke, 74 New
Montgomery St., San Francisco.

Contractor—Clinton-Stephenson Con-
struction Co., Ltd., Monadnock
Bldg., San Francisco.

Lessee—Sterling Dyers & Cleaners.
Glass—Cobbledick-Kibbe Glass Co.,
666 Howard St., S. F.

Sheet Metal—Edgar Anderson Co.,
2103 San Pablo Ave., Oakland.

Roofing—Malott & Peterson, 3221 20th
St., San Francisco.

Reinforcing Steel—W. C. Hauck and
Co., 280 San Bruno Ave., S. F.

Mill Work—San Mateo Planing Mill,
San Mateo.

Concrete—San Mateo Feed & Fuel Co.,
San Mateo.

Electric Work—Atlas Electric & Eng.
Corp., 343 4th St., S. F.

OAKLAND, Cal.—Gov. John H.
Trumbull of Connecticut, president of
the Trumbull Electrical Manufac-
turing Company of Connecticut, is a
visitor on the Pacific Coast and an-
nounces plans for the erection of a
Pacific Coast plant to be located on a
site yet to be determined. Sites in
Oakland, he announced, are being
considered.

Plans Being Figured—Bids Close July
23rd.

HANGAR Cost, \$6500
WATSONVILLE, Santa Cruz Co., Cal.
Corrugated iron and frame hangar (80
by 100 ft.).

Owner—Watsonville Airport Company.

Architect—A. W. Story, Pajaro Val-
ley Bank Bldg., Watsonville.

Plans Being Prepared.

GARAGE, ETC. Cost, \$—
STOCKTON, San Joaquin Co., Calif.
Center and Church Sts.
Garage, 150x100-feet, carpenter shop,
truck storage sheds, paint shop,
etc.

Owner—Pacific Gas and Electric Co.,
245 Market St., San Francisco.

Plans by Eng. Dept. of Owners.

This work is a portion of the \$500,-
000 construction program planned by
the company in Stockton. Other im-
provements will comprise the installa-
tion of additional transformer equip-
ment and in the present sub-station in
addition to improvements in connec-
tion with power lines.

Sub-Contracts Awarded.

BUILDING Cost, \$25,000
SAN FRANCISCO, N Mission St. bet.
Fifth and Sixth Sts.

Two-story reinforced concrete build-
ing.

Owner—Mrs. T. Lyons.

Architect—G. F. Ashley, 525 Market
Street.

Contractor—G. P. W. Jensen, 320 Mar-
ket Street.

Concrete—Mission Concrete Co., 270
Turk St.

Plumbing—W. E. Trousdale, 423 Turk
Street.

As previously reported, reinforcing
steel awarded to W. C. Hauck Co., 280
San Bruno Ave.; excavation to Sibley
Grading & Teaming Co., 165 Landers
Street.

Plans Being Prepared.

STOREHOUSE Cost, \$—
VALLEJO, Solano Co., Cal. Mary-
land and El Dorado Sts.
One-story steel frame and brick
garage, storehouse and electric
shop (50x120 feet).

Owner—Vallejo Electric Light Co.
Plans by Wm. C. Jones, 403 Alameda
St., Vallejo.

Bids will be called for in about a
month.

To Be Done By Day's Work.

ALTERATIONS Cost, \$20,000
PITTSBURG, Contra Costa Co., Calif.
Waterfront.

Alterations to packing plant.
Owner and Builder—Seafosco Packing
Corp., Ltd., Pittsburg.

TURLOCK, Stanislaus Co., Cal.—
Construction has been started on a
\$20,000 feed mill and warehouse for
K. Knutsen on property of the Tur-
lock Dehydrating Company; will be
concrete and steel construction
equipped with latest type of grinding
and mixing equipment in addition to
a 15,000-gal. molasses tank and mixer.

Plans Being Figured By Local Con-
tractors.

ALTERATIONS Cost, \$15,000
PLACERVILLE, El Dorado Co., Cal.
Alterations and additions to ware-
house, garage and offices.

Owner—Pacific Gas & Electric Co.,
235 Market St., San Francisco.

Plans by Engineering Dept. of Owner.
(Frank M. Harris).

Excavation Contract Awarded.

LABORATORY Cont. Price \$65,000
SAN FRANCISCO, N Bell St., Bet.
Van Ness Ave. and Polk St.

Three-story and basement reinforced
concrete and brick offices and labo-
ratory.

Owner—The Viavi Co., Van Ness Ave.
and Market St., San Francisco.

Architect—Willis Polk Co., 277 Pine
St., San Francisco.

Contractor—Barrett & Hilt, 918 Har-
rison St., San Francisco.

Excavation—Granfield, Farrar & Car-
lin, 67 Hoff St., San Francisco.

Plans Being Figured—Bids Close July
21, 12 Noon.

PLANT Cost, \$—
LIVERMORE, Alameda Co., Cal.
Reinforced concrete washing, screen-
ing and loading plant.

Owner—Kaiser Paving Co., 1522 Lath-
am Square Bldg., Oakland.

Engineer—L. H. Nishkian, 525 Market
St., San Francisco.

GARAGES AND SERVICE STATIONS

Preliminary Plans Completed—
Excavating Contract Awarded.

STATION Cost, \$4000
SACRAMENTO, Cal. Thirteenth and
I Streets.

Brick and concrete service station
& repair shop (composition roof).
Owner and Builder—L. D. Ehret, 1050
38th St., Sacramento.

Architect—Frederick S. Harrison,
Peoples Bank Bldg., Sacramento.

Plumbing—Crane Co., 1227 Front St.,
Sacramento.

Plans Being Figured—Bids Close
August 3, 10 A. M.

GARAGE Cost, \$15,000
SANTA MARIA, Santa Barbara Co.
County garage.

Owner—County of Santa Barbara.

Architect—None.

Sub-Contracts Awarded.

MARKET Cost, \$15,000
OAKLAND, Alameda Co., Cal. Dow-
ling Blvd. and Telegraph Ave.

One-story frame and stucco frame and
driveway driven in market.

Owner—Geo. Scott, contractor.
Plans by Cartwright & Huffman, 1914
W 48th St., Los Angeles.

Contractor—L. R. McWethy, 337 17th
Ave., Oakland.

Lumber—Sunset Lumber Co., 400 High
St., Oakland.

Excavation—J. Catucci, 1212 18th Ave.
Oakland.

Electric Wiring—Matson-Seabrooke
Co., 4115 Broadway, Oakland.

Plumbing—J. A. Freitas, 1907 E 14th
St., Oakland.

Structural Steel—Herrick Iron Works,
18th and Campbell Sts., Oakland.

Roofing—Western Roofing Co., 1737
Telegraph Ave., Oakland.

Plans Being Figured—Bids Close July
21, 4 P. M.

SALES BLDG. Cost, \$20,000
NEWMAN, Stanislaus Co., Cal.

One-story brick auto sales and service
building.

Owner—Thomas Rose.

Architect—H. G. Bissell, 421 E-Miner
St., Stockton.

Sub-Contracts Awarded.

STATION Cost, \$65,000
SAN FRANCISCO. Twelfth and Mis-
sion Streets.

Reinforced concrete and steel super
service station.

Owner—Granfield's Inc.

Architect—Blaine & Olsen, 1755 Broad-
way, Oakland.

Contractor—W. C. Cone, 1744 Broad-
way, Oakland.

Lumber—San Francisco Lumber Co.,
foot of Mason St.

Reinforcing Steel—Soule Steel Co., RI-
alto Bldg.

Structural Steel—California Steel Co.,
Hobart Bldg.

Glass—Tyre Bros. Glass Co., 666 Town-
send Street.

Steel Sash—United States Metal Pro-
ducts Co., 330 10th St.

GOVERNMENT WORK AND SUPPLIES

HAWTHORNE, Nev.—Safeway Elec.
Co., 8952 Ellis Ave., Los Angeles, at
\$7,988 awarded contract by Bureau of
Yards and Docks, Navy Dept., to in-

stall fire alarm system at Naval Ammunition Depot at Hawthorne. Work under Specification No. 6162.

SAN DIEGO, Cal.—Until 11 A. M., July 22, bids will be received by the Public Works Officer, 11th Naval District, San Diego, for enclosing the Supply Depot Annex, at the Naval Operating Base (Supply Depot), San Diego; Spec. 6245. The work includes, in general, the furnishing and installing of approximately 1000 linear feet of non-climbable fence, including two pairs of 8 foot wide gates. Plans obtainable from above on deposit of \$10, returnable.

SACRAMENTO, Cal.—Until July 22, 3 P. M., bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver miscellaneous castings, under Order Nos. 2187-1655-61 and 2145-1655-61. Further information obtainable from above.

WASHINGTON, D. C.—Bids are being received by Bureau of Supplies & Accounts, Navy Department, Washington, D. C., to furnish and deliver miscellaneous supplies and equipment as noted in the following schedules. Further information being available from the Navy Department Officer, 100 Harrison St., San Francisco:

Bids Open July 29
Mare Island, insulating varnish, sch. 3773.
Mare Island, 1 motor-driven straight side wiring press, sch. 2767.
Mare Island, 200 sets compasses and dividers, sch. 3753.

WALLA WALLA, Wash.—E. K. Nelson, 557 Market St., San Francisco, at \$18,200 awarded contract by U. S. Veterans' Bureau, Washington, D. C., to erect garage building at Walla Walla. Bids for this project were opened at Palo Alto, Calif., June 16.

COCO SOLO, C. Z.—Bids will be asked shortly by Bureau of Yards & Docks, Navy Department, Washington, D. C., under Specification No. 6176 to furnish and install two electric freight elevators at Naval Air Station, Coco Solo. Deposit of \$10 required for plans obtainable from Bureau.

PHOENIX, Ariz.—Treasury Department, Washington, D. C., will open bids on August 18 for site on which to erect federal building in Phoenix. Structure will cost over \$1,000,000.

To Ask Bids Shortly.
CABLE & CONDUIT Cost, \$—
SAN FRANCISCO, Presidio.
Furnish and install cable and conduit for replacement of electric lighting system at Letterman General Hospital (35 standards of Marbleite or Toncan Metal).
Owner—United States Government.
Architect—Constructing Quartermaster, Fort Mason.

To Ask Bids Shortly.
LIGHTING SYSTEM Cost, \$—
SAN FRANCISCO, Presidio.
Replace electric lighting system (about 35 standards, either Marbleite or Toncan metal) at Letterman General Hospital.
Owner—United States Government.
Architect—Constructing Quartermaster, Fort Mason.

To Ask Bids Shortly.
FLOORS, ETC. Cost, \$—
SAN FRANCISCO, Presidio.
Place tile wainscoting, tile floors, marble partitions, lavatories in Ward Buildings Nos. 4, 26 and 27 at Letterman General Hospital.
Owner—United States Government.
Architect—Constructing Quartermaster, Fort Mason.

To Ask Bids Shortly.
ENCLOSE CORRIDOR Cost, \$—
SAN FRANCISCO, Presidio.
Enclose main corridor of Letterman General Hospital.
Owner—United States Government.
Architect—Constructing Quartermaster, Fort Mason.

To Ask Bids Shortly.
PANEL BOARDS Cost, \$—
SAN FRANCISCO, Presidio.
Replace two marble panel boards in main laundry at Letterman General Hospital.
Owner—United States Government.
Architect—Constructing Quartermaster, Fort Mason.

Plans Being Figured.
SAN FRANCISCO, Presidio.
PAINTING Cost, \$—
Painting main laundry building No. 24 at Letterman General Hospital.
Owner—United States Government.
Architect—Constructing Quartermaster, Fort Mason.

Specifications obtainable from the Constructing Quartermaster at Fort Mason.

Plans Being Figured—Bids Close Aug 20, 11 A. M.
HOSPITAL, ETC. Cost, \$—
MARCH FIELD, Riverside Co., Cal.
Construct one Air Corps Hospital and 12 sets of Non-Commissioned Officers' Quarters.
Owner—U. S. Government.
Architect—W. C. Gardenshire, Colonel Q. M. C., Constructing Quartermaster, March Field.

Deposit of \$25 required for plans obtainable from above office and on file in the office of the Constructing Quartermaster at Fort Mason, San Francisco.

See call for bids under official proposal section in this issue.

HALLS AND SOCIETY BUILDINGS

Plans Being Prepared.
REMEDI Cost, \$—
FRESNO, Fresno Co., Cal. Merced Street and Broadway.
Remodel lodge building.
Owner—J. O. O. F. Hall Assn., E. M. Bishop, Secretary, Fresno.
Architect—Ernest J. Kump, Rowell Bldg., Fresno.

The project will involve remodeling the second story of the structure for a kitchen, banquet hall and entertainment room.

To Be Done By Day's Work.
ALTERATIONS Cost, \$7000
OAKLAND, Alameda Co., Cal. Sixth and Jackson Sts.
Alterations and additions.
Owner and Builder—Japanese-American Society, 1055 7th St., Oakland.
Architect—R. C. Schuppert, 4737 Park Blvd., Oakland.

Low Bidder.
TEMPLE Cost, \$—
SANTA ANA, Orange Co., Cal. Sycamore Ave. and Fifth St.
Four-story and basement steel frame temple (90x117 ft.).
Owner—Masonic Temple Assn., Ltd.
Architect—W. Horace Austin, Pacific Northwest Bank Bldg., L. A.
Low Bidder—Miller & Schultz, 911 N. Chester Ave., Compton, at \$106,920.

Plans Being Prepared.
MEMORIAL BLDG. Cost, \$60,000
LIVERMORE, Alameda Co., Cal. Fifth and L Sts.
One-story reinforced concrete Veterans' Memorial Building.
Owner—County of Alameda.

Architect—H. H. Meyers, Kohl Bldg., San Francisco.

Bids Opened.
CLUB BLDG. Cost, \$—
MOUNTAIN VIEW, Santa Clara Co., Calif.

Two-story reinforced concrete club building.

Owner—American Legion, Mt. View.
Architect—Alex. A. Cantin, 544 Market St., San Francisco.

General Contract

Young & Horstmeier, San Francisco \$27,331; \$1960.

The Minton Co., Mt. View, \$28,149; \$2389.

N. Darrah, Mt. View, \$28,530; \$1000.

Carl Lundholm, Mt. View, \$28,973.35; \$3604.

Boyle Bldg. Co., Mt. View, \$29,568; \$30.

J. A. Bryant, San Francisco, \$30,- \$5; \$2029.

R. O. Summers, San Jose, \$31,081; \$2652.

N. E. Johnson, San Francisco, \$31,- 097; \$2563.

L. N. Pollard, Redwood City, \$32,- 084; \$3150.

Leibert & Trobeck, San Francisco, \$32,750; \$900.

Cobby & Son, San Francisco, \$32,- 873; \$1800.

Electric

Valley Electric Co., 275 Castro St., Mt. View.....\$1,125

Trichett, Mt. View.....1,154

Roy N. Butcher, San Jose.....1,176

Roberts Mfg. Co., Oakland.....1,230

M. E. Ryan, Redwood City.....1,350

Plans Being Completed.

ADDITION Cost, \$18,000
VALLEJO, Solano Co., Cal. Santa Clara Street.

One-story steel frame and brick addition to gymnasium (100x54 ft.).

Owner—Y. M. C. A.
Plans by Wm. C. Jones, 403 Alameda St., Vallejo.

Plans will be ready for bids in about ten days

Plans Being Completed.
STUDIO Cost, \$18,000
SAN MATEO, San Mateo Co., Calif.

Thirteenth and E Sts.

Two-story frame and stucco dancing studio and apartments (5 rooms, 2 baths) (40x30 ft.).

Owner—Callan Jader.

Architect—Grimes & Schoening, Balovich Bldg., San Mateo.

Bids will be taken in one week.

Bids Under Advisement.
MEMORIAL HALL Cost, \$85,000
(exclusive of furnishings)

EUREKA, Humboldt Co., Cal. H St. bet. 10th and 11th Sts.

One-story and basement concrete Veterans' Memorial Hall (140x98-ft.).

Owner—County of Humboldt, Fred M. Kay, county clerk, Eureka.

Architect—Newton Ackerman, 102 W 4th St., Eureka.

Following is a complete list of bids received (alternates omitted):

Mercer-Praser Co., Eureka.....\$77,875

J. L. McLaughlin, S. F.....\$1,800

Barrett & Hibb, S. F.....\$2,493

F. J. Maurer & Son, Eureka.....\$3,995

Oliver S. Almlie.....\$9,356

C. J. Bloomquist.....\$9,163

Louis Halversen, Eureka.....\$9,500

David Paganini, S. F.....\$7,732

The above bids are on the general contract only. Separate bids were received for plumbing, electric work and heating.

HOSPITALS

Plans Being Figured—Bids Close August 4, 2 P. M.

HEATING SYSTEM Cost, \$—
ALTURAS, Modoc Co., Cal.

Furnish and install steam heating plant in county hospital.
Owner—County of Modoc, L. S. Smith, County Clerk, Modoc.
Architect—Ralph D. Taylor, 11 Bell Bldg., Alturas.
Certified check 10% required with bid. Plans obtainable from architect on deposit of \$10, returnable.

Sub-Contracts Awarded.

ADDITION Cost, \$—
REDWOOD CITY, San Mateo Co., Cal. County Hospital grounds at Beresford.

Three-story reinforced concrete wing addition to county hospital.

Owner—County of San Mateo, Elizabeth M. Kneese, county clerk.
Architect—VIII H. Toepeke, Call Bldg., San Francisco.

Contractor—Sorensen and Hagmark, 2652 Harrison St., San Francisco.
Electric Wiring—Atlas Electric Co., San Mateo.

Painting—Geo. Ames, 404 Howard Ave. Burlingame.

Heating & Ventilating—F. J. Klimm Co., Inc., 456 Ellis St., San Francisco.

Elevator contract will be awarded in one week and plumbing contract in two weeks.

Contract Awarded.

FLOOR COVERING Cost, \$—
MODESTO, Stanislaus Co., Cal.
Floor covering for hospital (including linoleum, mates and runner) for Unit No. 2, Ward Bldg. at County Hospital.

Owner—County of Stanislaus, C. C. Eastin, county clerk, Modesto.
Architect—R. G. deLappe, and Vladimir Ogilou, 1710 Franklin St., Oakland.

Contractor—Osborne Hardware Co., Turlock.

Complete list of bids follows:
Osborne Hdw. Co., Turlock.....\$2,766
Johnson Wherry, Modesto.....3,099
Ward Furniture Co., Modesto.....3,185
J. E. Higgins, San Francisco.....3,366

Contract Awarded.

HOSPITAL BEDS Cost, \$—
MODESTO, Stanislaus Co., Cal.
Furnish and install hospital beds and attachments for Unit No. 2, Ward Building at County Hospital.

Owner—County of Stanislaus, C. C. Eastin, county clerk, Modesto.
Architect—R. G. deLappe, and Vladimir Ogilou, 1710 Franklin St., Oakland.

Contractor—Osborne Hardware Co., Turlock.

Complete list of bids follows:
Osborne Hdw. Co., Turlock.....\$1,894
Johnson Wherry, Modesto.....1,959
Colson Co., San Francisco.....2,077
Ward Furniture Co., Modesto.....2,420

HOTELS

Plans Being Revised—Contractor Selected.

HOTEL Cost, \$120,000
SALINAS, Monterey Co., Calif. Monterey Street.

Three-story reinforced concrete hotel (120 rooms).

Owner—Withheld.
Architect—A. W. Story, Pajaro Valley Bank Bldg., Watsonville.

Bids Under Advertisment.

HOTEL Cost, \$100,000
RENO, Washoe Co., Nevada. NE Second and Chestnut Sts.
Six-story and basement steel frame and brick hotel.

Owner—Abe Zetoonoy, Reno, Nevada.
Architect—Geo. A. Ferris & Son, Cladianos Bldg., Reno, Nevada.
Lessee—Jos. Bulasky, Reno, Nevada.

OCEANSIDE, San Diego Co., Cal.—See "Theatres," this issue. Bernard Nessa Estate, owner.

Contract Awarded.

HOTEL Cost, \$125,000
EUGENE, Oregon.
Two-story stucco exterior garage and hotel (200x200 ft.)

Owner—Moutour Hotel System, Harvey R. Malott, Manager, Selling Bldg., Portland, Ore.

Plans by C. W. Jackson, Portland.
Contractor—Stien Bros. Engene.

Similar structures are planned by the same interests at Grants Pass or Medford, Yreka or Dunsmuir, Chico, or Sacramento, Fresno and Bakersfield. There will be 100 rooms with bath and a 70-car garage. A coffee shop is also included on the plans. Plans include a six-hole golf course on the hotel grounds. The hotel will be modern in furnishings and equipment and will have a steam heating system.

Sub-Contracts Awarded.

HOTEL Cost, \$21,917
SALINAS, Monterey Co., Cal. Abbott and Maple Streets.

Two-story and basement concrete hotel.

Owner—J. Bernardello, Salinas.
Architect—Butner & Stranahan, Gkbarg Bldg., Salinas.

Contractor—J. S. Boyd, Villa St., Salinas.

Structural Steel, Miscellaneous and Ornamental Iron and Steel Sash—San Jose Iron Works, 535 W-San Carlos St., San Jose.

ICE AND COLD STORAGE PLANTS

SAN LUIS OBISPO, San Luis Obispo Co., Cal.—G. Kapoulos and Geo. S. Christo, head of the Geo. S. Christo Packing Corp., have applied to the county supervisors for a fishing concession on the Avila Wharf, at the same time announcing that if granted, the company would construct a \$20,000 ice plant and packing plant on that portion of the wharf leased.

POWER PLANTS

REDDING, Shasta Co., Cal.—Neidermeyer Martin Lumber Co., Redding, at \$933.25 awarded contract by city council to furnish and deliver f. o. b. cars, Redding, cedar poles, as follows: Five 9 in. top 60 ft. poles, five 9 in. top 50 ft. poles, twenty 9 in. top 45 ft. poles and thirty 9 in. top 40 ft. poles, all to be Western Red Cedar Butts creosoted ½ inch guard-ent penetration.

Preparing Preliminary Plans.

LIGHT PLANT Cost, \$150,000
PASADENA, Los Angeles Co., Calif. Glenarm St. bet. Fair Oaks and Raymond Aves.

Reinforced concrete light plant.

Owner—Municipal Light Department of Pasadena.
Architect—Bennett & Haskell, 311 1st Trust Bldg., Pasadena.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

Contract Awarded.

SHEET METAL WORK Cost, \$5991
FOLSOM, Sacramento Co., Cal. State Penitentiary.

Sheet metal work for Administration Building and Hospital.

Owner—State of California.
Architect—State Department of Public Works, Division of Architecture, Public Works Bldg., Sacramento.

Contractor—Frank Ahl, 1615 21st St., Sacramento.

Note—Informal bids were received for this work.

Contract Awarded.

ALTERATIONS Cont. Price, \$9980
MODESTO, Stanislaus Co., Cal. City Hall.

Enlarging and remodeling city clerk's office.

Owner—City of Modesto (H. E. Gragg, City Clerk).

Engineer—Frank J. Rossi, City Engineer, Modesto.

Contractor—E. A. Green, Sycamore St., Modesto.

Following is complete list of bids received, all bidders of Modesto:

E. A. Green.....	\$ 9,980
F. Varozza.....	10,494
M. O. Ward.....	10,510
H. Tonnison.....	11,000
Harry E. Brown.....	11,689
Elliott & Drake.....	15,303

Completing Plans.

JAIL, ETC. Cost, \$275,000
VENTURA, Ventura Co., Cal.

Jail building and annex to courthouse. Owner—County of Ventura.

Architect—Harold Burket, 455 E. Main St., Ventura.

Completing Plans.

COURTHOUSE Cost, \$300,000
BISBEE, Arizona.

Three and part five-story steel and reinforced concrete courthouse (91 by 105 feet).

Owner—County of Cochise.
Architect—Roy Place, 79 N-Stone Ave., Tucson, Arizona.

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July 17, 1930

Low Bidder.

BOOK STACKS Cost, \$—
BERKELEY, Alameda Co., Cal. Kitt-ridge St. and Shattuck Ave.

Furnish and install steel book stacks in library.

Owner—City of Berkeley, Florence E. Turner, City Clerk.

Architect—James W. Placcek, Mercantile Bank Bldg., Berkeley.

Low Bidder—M. G. West Co., 339 13th St., Oakland.

Complete list of bids follows:
M. G. West Co., Oakland.....\$23,206

Snead & Co.....24,760

C. J. Hillard Co., S. F.....26,500

Remington Rand Business Service
San Francisco.....26,500

J. L. Davidson Co., Ltd., S. F. 28,815

Pacific Iron Works, Oakland.....29,708

General Fireproofing Co., S. F. 30,964

Steel Fixture Mfg. Co.....32,284

Michel & Pfeffer Iron Works,
San Francisco.....35,763

OAKLAND, Cal.—W. R. Buckridge, at \$1295, submitted low bid to City Park Commission to furnish and install two public address speakers, one in Mosswood Park and one in Diamond Park. Complete list of the bids follows:

W. R. Buckridge.....\$1295

Stewart-Martin Co.....1315

Harry J. Lee.....1714

Sherman Clay & Co., Oakland.....2422

Jack Jensen, Oakland.....2950

Electric Communication Co.....7321

RESIDENCES

Contract Awarded.

RESIDENCE Cost, \$10,000
SACRAMENTO, Sacramento Co., Cal. 951 41st St.

Frame and stucco residence (7 rooms)

Owner—Victor Dorsa, 602 17th Street, Sacramento.

Architect—None.

Contractor—R. L. Hathaway, 720 Redwood Ave., Sacramento.

Contract Awarded.

RESIDENCE Cost, \$10,000
SAN JOSE, Santa Clara Co., Calif. 13th near Reed St.

Frame and stucco residence (6 rooms)
Owner—C. E. Blockie, 486 S First St.,
San Jose.
Architect—None.
Contractor—Ira Brotzman, 5 Garfield
St., San Jose.

Plans Being Prepared.
RESIDENCE Cost, \$—
MONTEREY, Monterey Co., Cal. 17-
Mile Drive.
One-story frame and stucco residence
(6 rooms).
Owner—E. A. Williams, Jr., 846 Bay
View, Pacific Grove.
Architect—Swartz & Ryland, Spazler
Bldg., Monterey.

Sub-Bids Being Taken.
RESIDENCE Cost, \$10,000
SAN JOSE, Santa Clara Co., Cal. Wil-
low Grand Way.
One-story frame and stucco residence
(6 rooms).
Owner and Builder—Mr. Van Dolsen,
San Jose.
Architect—Wolfe and Higgins, Realty
Bldg., San Jose.

To Be Done By Day's Work.
RESIDENCE Cost, \$12,000
PIEDMONT, Alameda Co., Calif. 17
Richardson Way.
Two-story frame and stucco residence
(7 rooms).
Owner and Builder—J. W. Scammell,
924 Scenic Ave., Piedmont.
Plans by Owner.

Plans Being Prepared.
RESIDENCE Cost, \$18,000
BERKELEY, Alameda Co., Cal. Haw-
thorne Terrace.
Two-story and basement frame and
stucco residence (9 rooms).
Owner—Withheld.
Architect—W. C. Ambrose, 605 Market
St., San Francisco.
Plans will be ready for bids in about
a month.

Plans Being Figured.
RESIDENCE Cost, \$50,000
LOS GATOS, Santa Clara Co., Calif.
Between Los Gatos and Saratoga.
Two-story frame and stucco residence
(10 rooms).
Owner—W. E. Bleuer, 1634 Alameda,
San Jose.
Architect—Clarence Tantau, S h r e v e
Bldg., San Francisco.

Completing Plans.
RESIDENCE Cost, \$12,000
HILLSBOROUGH, San Mateo Co., Cal.
Roblar Road.
Two-story and basement frame and
stucco residence (8 rooms).
Owner—T. H. Breeze.
Architect—Willis Polk & Co., 227 Pine
St., San Francisco.
Plans will be ready for bids in about
a week.

Plans Being Revised.
RESIDENCE Cost, \$20,000
BERKELEY, Alameda Co., Cal. North
Cragmont.
Two-story frame and stucco residence
Owner—Alvin C. Richards.
Architect—E. L. Snyder, 2101 Addi-
son St., Berkeley.
Plans will be ready for figures the
middle of next week.

Contract Awarded.
RESIDENCE Cost, \$20,000
SAN FRANCISCO, Pacific Avenue.
Two-story brick veneer residence.
Owner—Mrs. E. Lent, 2100 Jackson
St., San Francisco.
Architect—E. J. Osborne, Balboa
Bldg., San Francisco.
Contractor—Ed. Zinkand, 434 10th
Ave., San Francisco.

Sub-Bids Being Taken.
ALTERATIONS Cost, \$12,000
BERKELEY, Alameda Co., Cal. 2827
Warren St.
Alterations to two-story frame sorority
house.

Owner—Chapter Theta Upsilon, 2327
Warren St., Berkeley.
Architect—Frank W. Dakin, 526 Mar-
ket St., San Francisco.
Contractor—George Moren, 1040 Ful-
ton St., San Francisco.
Sub-bids are being taken on plumb-
ing, painting, plastering, heating, elec-
tric work, roofing, tiling, millwork,
glass, and hardwood flooring.

Plans Being Completed
RESIDENCE Cost, \$—
MONTEREY, Monterey Co., Cal. 17-
Mile Drive.
One-story frame and stucco residence
(6 rooms).
Owner—E. A. William Jr., 346 Bay
View Ave., Pacific Grove.
Architect—Swartz & Ryland, Spazler
Bldg., Monterey.
Plans will be ready for figures in
two or three days.

Working Drawings Being Prepared.
RESIDENCE Cost, \$15,000
SAN RAFAEL, Marin Co., Cal.
Two-story and basement frame and
stucco residence (9 rooms, 2 baths)
Owner—Harry Albert, San Rafael.
Architect—S. Heiman, 57 Post St., San
Francisco.
Bids will be taken in about 2 weeks.

Contract Awarded.
RESIDENCE Cost, \$10,000
SARATOGA, Santa Clara Co., Cal. Lot
3 Auzele Subdiv., pt. Quito Rancho
Two-story frame and stucco residence.
Owners—H. R. and E. C. Bogart, 139
25th Ave., San Francisco.
Architect—Blander & Curtis, 35 W San
Carlos St., San Jose.
Contractor—S. Kempthorne, Saratoga.

Contract Awarded.
RESIDENCE Cost, \$12,000
BERKELEY, Alameda Co., Cal. No
611 Grizzley Peak Blvd.
Two-story frame and stucco residence
(9 rooms).

Owner—Clyde C. Sheppard, 1005 Sierra
Ave., Berkeley.
Architect—A. W. Smith, American
Bank Bldg., Oakland.
Contractor—Barhan Co., American
Bank Bldg., Oakland.

Contract Awarded.
ALTERATIONS Cost, \$100,000
PEBBLE BEACH, Monterey Co., Cal.
Alterations to two-story plaster and
metal lath residence.
Owner—Mrs. Wm. H. Crocker, Pebble
Beach.

Architect—Clarence A. Tantau, 210
Post St., San Francisco.
Contractor—Dowsett - Ruhl Co., Russ
Bldg., San Francisco.

Previously reported that construc-
tion was brick veneer and frame,
which was in error.

Bids Opened.
RESIDENCE Cost, \$—
PALO ALTO, Santa Clara Co., Cal.
One-story frame and stucco residence
(5 rooms).

Owner—R. Tinney.
Plans by E. Reichel, 303 University
Ave., Palo Alto

Complete list of bids follows:
W. S. Clay, Palo Alto.....\$7288
P. R. Smith, Palo Alto..... 7750
J. W. Cabbage, Palo Alto..... 8397
W. P. Goodenough, Palo Alto..... 8800
Bids taken under advisement.

To Be Done By Day's Work.
RESIDENCES Cost each, \$7000
SAN FRANCISCO. Retiro and Fille-
more Sts.

Two 2-story and basement frame and
stucco residences.
Owner and Builder—S. Stelnowar, 755
27th Ave.
Architect—Charles F. Strothoff, 2274
15th St.

SCHOOLS

Prospective Bidders.
SCHOOL Cost, \$20,000
YOUNTVILLE, Napa Co., Cal.
One-story three-classroom hollow tile
Spanish type school.
Owner—Yountville School District
Architect—Coffman, Sahlberg & Staf-
ford (W. E. Coffman, architect),
Frum Bldg., Sacramento, and
3529 Emerson St., Oakland.

Following is a list of the prospec-
tive bidders:
Frank H. Kress, Oakland.
C. W. Gibson, Ukiah.
Vienop & Reidenbach, Napa.
The Minton Co., Mt. View.
Frank Lamb, Valejo.
Gaubert Bros., Oakland.
George Kopp, Oakland.
Gen. F. Barenchli, Vallejo.
Bids to be opened for this project
on July 28, 1 P. M.

Plans Being Completed.
CAFETERIA Cost, \$20,000
SAN JOSE, Santa Clara Co., Cal.
One-story reinforced concrete cafe-
teria for Woodrow Wilson School
Owner—San Jose City School District
Architect—W. H. Weeks, Bank of
Italy Bldg., San Jose.
Plans will be ready for figures in
a few days.

Preparing Plans.
ADDITION Cost, \$250,000
SAN JOSE, Santa Clara Co., Cal.
Two-story reinforced concrete addi-
tion to Herbert Hoover Junior
High School.
Owner—San Jose City School District
Architect—W. H. Weeks, Bank of
Italy Bldg., San Jose, & Hunter-
Dulin Bldg., San Francisco.
Plans will be ready for figures in
one month.

Completing Plans.
GARAGE Cost, \$—
GILROY, Santa Clara Co., Cal.
One-story reinforced concrete garage.
Owner—Gilroy High School District.
Architect—W. H. Weeks, Bank of
Italy Bldg., San Jose, & Hunter-
Dulin Bldg., San Francisco.
Plans will be ready for figures in a
few days.

Completing Plans.
ADDITIONS Cost, \$—
GILROY, Santa Clara Co., Cal.
Additions and alterations to school.
Owner—Gilroy Grammar School
District.
Architect—W. H. Weeks, Bank of
Italy Bldg., San Jose, & Hunter-
Dulin Bldg., San Francisco.
Plans will be ready for figures in
a few days.

Plans Being Figured—Bids Close Aug.
19, 4 P. M.
SCHOOL Cost, \$15,000
EMERYVILLE, Alameda Co., Calif.
61st St. ad Doyle Ave.
One-story brick elementary school (4
rooms).
Owner—Emeryville School District.
Plans by S. Arnold, High School,
Emeryville.
Plans obtainable from Mr. Arnold
at the High School.

Plans Being Figured—Bids Close Aug.
9, 2 P. M.
SCHOOL Cost, \$4500
TRACY, San Joaquin Co., Calif.
One-room brick veneer addition to
Jefferson School.
Owner—Jefferson School District
Architect—Ralph P. Morrell, Union
Bldg., Stockton.

Commissioned to Prepare Plans.

ADDITIONS Cost, \$210,000
VISALIA, Tulare Co., Cal.
 Classroom additions and auditorium building for high school.
 Owner—Visalia High School District.
 Architect—Ernest J. Kump, Rowell Bldg., Fresno.

Plans Being Figured—Bids Close Aug. 12, 2 P. M.

KITCHEN Cost, \$—
WHITTIER, Los Angeles Co., Cal.
 Kitchen and Commissary Building at Whittier State School.
 Owner—State of California.
 Architect—State Department of Public Works, Division of Architecture, Public Works Bldg., Sacramento.

The structure will be one-story and part basement, of concrete, brick and frame construction, with interior partitions of hollow tile, wood roof construction and tile roof. Total floor area of 12,500 sq. ft. Bids are wanted for a general contract with separate bids for mechanical work, including plumbing, heating, ventilating and electric work. Separate bids will be considered for electric work and for plumbing, heating and ventilation work. Combined will also be considered for all four branches of the work.

See call for bids under official proposal section in this issue.

Bids Opened—Held Under Advice—ment.

ADDITION Cost, \$—
HAYWARD, Alameda Co., Cal. Sota Road and Orchard Ave.
 Addition to John Muir School.
 Owner—Hayward School District.
 Architect—E. P. Whitman, 192 Main St., Hayward.

Low Bidder—J. A. Bunker, Hayward.
 Complete list of bids follows:
 J. A. Bunker, Hayward.....\$4925
 A. Holyoake, Hayward.....5563
 A. F. Hanson, Hayward.....5439
 Walter Lund, Hayward.....5617
 C. M. Russell, Hayward.....6587
 Suttle & Green, Hayward.....5950
 Fred Westlund, Hayward.....5974
 Geo. L. Hudson, Hayward.....6998
 H. S. Shain, Hayward.....6737

Contract Awarded.
SCHOOL Cost, \$—
BAKERSFIELD Kern Co., Cal.
 Auditorium and classroom building (Section Two).
 Owner—Kern Co. Union High School District (William Gleason, clerk), Bakersfield

Architect—Charles H. Biggar, 405-406 Bank of Italy Bldg., Bakersfield.
Contractor—G. A. Graham, 1927 A St., Bakersfield, \$87,300.
Heating and Ventilating—Gundlach Plumbing & Sheet Metal Co., 2324 Chester Ave., Bakersfield, \$9090.
Plumbing—Smetzer Plbd Co., 2728 Chester Ave., Bakersfield, \$3715.
Electric Work—Oil City Electric Co., Bakersfield, \$3032.

Following is a complete list of bids on the general contract (a) covering Little Theatre and (b) tank and tower:

G. A. Graham, Bakersfield (a) \$34,060; \$13,360, total \$87,300.
 Currie & Duglar, Bakersfield \$36,014; \$12,665, total \$92,528.
 Clark Gramling, Bakersfield, \$34,337; \$14,400, total \$95,307.
 Henry Elssler, Bakersfield, \$33,000; \$15,000, total \$99,900.

DINUBA, Tulare Co., Calif.—Until July 29, bids will be received by F. F. Robinson, clerk, Dinuba Grammar School District, to furnish and place

roofing on Washington School, consisting of \$5-lb. slate surfaced roofing. Spec. and further information obtainable from the clerk.

Plans Being Figured—Bids Close July 28, 1 P. M.

SCHOOL Cost, \$20,000
YOUNTVILLE, Napa Co., Cal.
 One-story three-classroom hollow tile Spanish type school.
 Owner—Yountville School District
 Architect—Coffman, Sahlberg & Stafford (W. E. Coffman, architect), Forum Bldg., Sacramento, and 3529 Emerson St., Oakland.
 Certified check 10% payable to Mrs. Nellie Borman, Clerk of District, required. Bidder's bond will not be accepted. Plans obtainable from architect on deposit of \$25, returnable.

Contract Awarded.
SCHOOLS Cost, \$—
BERKELEY, Alameda Co., Cal. Bancroft Way.

Two one-story frame temporary schools (9 classrooms, science and drawing room).
 Owner—Berkeley Board of Education
 Architect—Hardman & Russ, Berkeley Bank Bldg., Berkeley.
 Contractor—Chas. McCullough, 1634 Berkeley Way, Berkeley.

Bids Being Taken.
MUSIC HALL Cost, \$650,000
CLAREMONT, Los Angeles Co., Cal.
 Claremont College.
 Reinforced concrete music hall (Bridges Hall of Music) (to seat 2500).

Owner—Claremont College.
 Architect—William Templeton Johnson, San Diego Trust & Savings Bank Bldg., San Diego.

NEWMAN, Stanislaus Co., Calif.—Simon Newman Co., Newman, at \$6.77 each, awarded contract by high school trustees to furnish and install 450 chairs for school auditorium. Bids for stage equipment in connection with same structure taken under advisement.

Bonds Voted—Plans Being Completed.
SCHOOL Cost, \$20,000
WESTLEY, Stanislaus Co., Cal.
 One-story class C brick or concrete elementary school (4 classrooms; Spanish type).
 Owner—Grayson School District.
 Architect—Davis - Pearce Co., Grant and Weber Sts., Stockton.

Contract Awarded.
SCIENCE BLDG. Cont. Price, \$8200
DELANO, Kern Co., Cal
 Erect Science Building.
 Owner—Delano Joint Union High School District, Frank Panero, Clerk, Delano.

Architect—Chas. H. Biggar, Bank of Italy Bldg., Bakersfield.
Contractor—R. Hodgson & Son, Porterville.

Following is complete list of bids received:
 R. Hodgson & Son, Porterville.....\$8200
 Willard K. Michael, 1724 Beale Ave., Bakersfield.....8341
 Currie & Duglar, Kern County Land Co., Bldg., Bakersfield 3524 Moon & Moon, 417 B St., Bakersfield.....8635
 G. A. Graham, Bakersfield.....9090
 R. A. Stearnes, Delano.....9695
 Henry Elssler, 2229 18th St., Bakersfield.....9700

Bids Opened—Under Advisement Until July 15.

SCHOOL Cost, \$35,000
FORTUNA, Humboldt Co., Cal.
 One-story concrete school.
 Owner—Fortuna Elementary School District.
 Architect—Norman R. Coulter, 46 Kearny St., San Francisco.
 Complete list of bids follows:
 Carl Nelson, 1421 E-Channel St., Stockton.....\$32,800
 Chas. M. Smith, Fortuna.....33,407
 Frank Johnson, Arcata.....34,175
 Chas. J. Bloomquist.....35,690

Completing Plans.
GYMNASIUM Cost, \$6000
VALLEJO, Solano Co., Cal. Vallejo High School.
 Installation of showers and lavatories, etc. in gymnasium.
 Owner—Vallejo Board of Education.
 Plans by Wm. A. Jones, 403 Alameda St., Vallejo.
 Plans will be ready for bid in three or four days.

Plans Being Figured—Bids Close July 25, 7:30 P. M.
ADDITIONS Cost, \$10,000
MORGAN HILL, Santa Clara Co., Cal.
 Classroom additions to present school.
 Owner—Live Oak School District.
 Architect—W. H. Weeks, 111 Sutter St., San Francisco.
 Plans obtainable from office of architect and on file in office of clerk at Morgan Hill.

ORNAMENTAL WIRE AND IRON WORK

IRON
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TENNIS COURT ENCLOSURES
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CENTERVILLE, Alameda Co., Cal.—As previously reported, bids will be received by J. C. Whipple, Secretary, Washington Union High School District, until July 24, 7:30 P. M., for installation in high school, involving:

(1) Additions to and extensions of the existing heating plant to new gymnasium building and to shop building with certain alterations to present plant;

(2) Furnish and install certain steel partitions for shower stalls and toilet rooms in new gymnasium building;

(3) Furnish and install lighting fixtures in new gymnasium.

Birge M. Clark, architect, 310 University Ave., Palo Alto. Certified check 10% payable to district required with bid. Plans obtainable from architect and on file at high school.

Plans Being Figured—Bids Close July 28, 1 P. M.

SCHOOL Cost, \$20,000

YOUNTVILLE, Napa Co., Cal. One-story three-classroom hollow tile Spanish type school.

Owner—Yountville School District. Architect—Coffman, Sahlgren & Stafford, Forum Bldg., Sacramento, and 3529 Emerson St., Oakland.

Plans Being Completed. HEATING SYSTEM Cost, \$—

STOCKTON, San Joaquin Co., Calif. French Camp.

Convert electric heating system to steam heating in six-room school building.

Owner—French Camp Educational Society, French Camp Road, Vallejo. Architect—V. Galbraith, Elks Bldg., Stockton.

Plans will be ready for bids in ten days.

Contract Awarded. SCHOOLS Cost, \$—

BERKELEY, Alameda Co., Cal. Bancroft Way.

Two 1-story frame temporary schools (9 classrooms, science and drawing room).

Owner—Berkeley Board of Education. Architect—Hardman & Russ, Berkeley Bank Bldg., Berkeley.

Contractor—Charles McCullough, 1634 Berkeley Way, Berkeley.

OROVILLE, Butte Co., Cal.—Oroville Union High School District trustees, in a tentative budget, has provided \$14,000 to finance construction of the first unit in new gymnasium building at the high school.

SAN FRANCISCO—Board of Public Works has requested the supervisors to adopt an ordinance authorizing the construction of additions to the West Portal School.

Plans Being Figured—Bids Close July 28, 7:30 P. M.

ADDITIONS Cost, \$—

SACRAMENTO, Sacramento Co., Cal. 34th and W Sts.

Additions for school.

Owner—Sacramento City School Dist., Chas. C. Hughes, secretary, Board of Education.

Architect—Chas. F. Dean, 1406 California State Life Bldg., Sacramento.

Certified check 10% payable to secretary required with bid. Plans obtainable from architect on deposit of \$15, returnable.

LONE TREE, Butte Co., Cal.—Telcher and Ray, Gridley, at \$1750 awarded contract by Lone Tree School District to erect new school. E. W. Abbey, clerk of district.

SAN MATEO, San Mateo Co., Cal.—Until July 21, 5 P. M., bids will be received by John D. Bromfield, clerk, San Mateo Junior College District, to furnish and install heating and ventilating system in Science Building at San Mateo Junior College. Plans obtainable from Superintendent in San Mateo High School, Delaware and Bellevue Aves., San Mateo, on deposit of \$5, returnable.

Contract Awarded. GYMNASIUM, ETC. Cost, \$61,234

SAN LUIS OBISPO, San Luis Obispo Co., Cal.

Gymnasium and assembly room and shop additions and alterations to Junior High School.

Owner—San Luis Obispo Junior High School District, C. L. Smith, city superintendent of schools.

Architect—L. N. Crawford, Gibson-Drexler Bldg., Santa Maria.

Contractor—Theo. Malno, San Luis Obispo.

Two bids received, as follows: Theo. Malno, gymnasium-assembly hall, \$29,746; shop building, \$32,796.

Both structures, \$61,234.

W. J. Charters, San Luis Obispo, gymnasium, \$32,183; shop building, \$32,664. Both structures, \$64,847.

Contracts Awarded. ADDITION Cost, \$22,300

SANTA BARBARA, Santa Barbara Co., Cal. Lincoln School.

Addition to school.

Owner—Santa Barbara School Dist. Architect—Soule, Murphy & Hastings, 116 E-Sola St., Santa Barbara.

Contractor—J. J. Munneman, 1334 Anacapa St., Santa Barbara.

Heating—Mainland Sheet Metal Wks., Santa Barbara.

Plans Being Figured—Bids Close July 23, 3 P. M.

SHOP BLDG Cost, \$—

ALTURAS, Modoc Co., Cal. Farm shop building for High School

Owner—Modoc Union High School District, Mrs. Electa Fogerty, Clerk.

Architect—Ralph D. Taylor, 11 Bell Bldg., Alturas.

Certified check 10% required with bid. Plans obtainable from architect on deposit of \$10, returnable.

Plans Being Figured—Bids Close July 14th.

ALTERATIONS Cost, \$10,000

NORTH SACRAMENTO, Sacramento Co., Cal.

Alterations and additions to present grammar school

Owner—North Sacramento School District.

Architect—Charles F. Dean, California State Life Bldg., Sacramento.

Plans Being Figured—Bids Close July 28, 7:30 P. M.

PAINTING Cost, \$—

EUREKA, Humboldt Co., Cal. Painting Eureka High School, high school gymnasium and manual training building.

Owner—Eureka High School District, Geo. B. Albee, city superintendent of schools.

Architect—Not Stated.

Certified check 10% payable to Eureka High School District required with bid. Specifications obtainable from city superintendent of schools.

Plans Being Figured—Bids Close July 28, 7:30 P. M.

ADDITION Cost, \$—

SUNNYVALE, Santa Clara Co., Cal. Frame school addition (clinic and laboratory).

Owner—Sunnyvale Elementary School District, Fred T. Butler, clerk.

Architect—W. H. Weeks, Bank of Italy Bldg., San Jose and 111 Sutter St., San Francisco.

Certified check 5% payable to clerk required with bid. Plans obtainable from the San Jose and San Francisco offices of the architect and on file in the office of clerk at Sunnyvale.

Bids To Be Taken About Aug. 5. SCHOOL Cost, \$157,000

SANTA ANA, Orange Co., Calif. Two-story reinf. concrete school (30 rooms).

Owner—Santa Ana Board of Education.

Architect—Allison & Allison, 1005 California Reserve Bldg., Los Angeles.

Contracts Awarded. ANNEX TO SCHOOL Cost, \$—

BERKELEY, Alameda Co., Cal. California School For Blind.

Two-story reinforced concrete annex to school, tile partitions, wood and tile roof (cover area of 10,000 sq. ft.) and annex to residence.

Owner—State of California.

Architect—George B. McDougall, State Architect, Public Works Bldg., Sacramento.

General Contract—Sorensen & Haggmark, 2652 Harrison St., San Francisco, at \$45,700.

Plumbing and Heating—George A. Schuster, 4712 Grove St., Oakland, at \$5262.

Electric Work—Geo. Woolf, 795 Alcatraz Ave., Oakland, at \$1783.

BERKELEY, Alameda Co., Calif.—Until August 4, 8 P. M., bids will be received by Clara F. Andrews, secretary, Board of Education, 2325 Milvia St., to resurface lower playground of Cragmont School, between Regal Rd., Spruce St. and Marin Ave.

Certified check 10% payable to Berkeley School District required with bid. Specifications obtainable from Secretary on deposit of \$5, returnable.

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Plans Being Figured—Bids Close July 15, 7:30 P. M.

SCHOOL Cost, \$15,000
WINTERS, Yolo Co., Cal.
 One-story frame and stucco school (2 classrooms).
 Owner—Winters School District.
 Architect—Dean & Dean, California State Life Bldg., Sacramento.
 Certified check 10% payable to P. W. Thornberry, clerk of district, required with bid. Plans obtainable from architect on deposit of \$15, returnable.

Plans Being Figured—Bids Close July 29, 7:30 P. M.

ADDITION Cost, \$10,000
MARTINEZ, Contra Costa Co., Cal.
 Addition to high school and shop building.
 Owner—Alhambra Union High School District, R. L. Boyer, Clerk, Martinez.
 Architect—W. H. Weeks, 111 Sutter St., San Francisco.
 Certified check 5% payable to clerk required with bid. Plans obtainable from architect.

Plans Being Re-Figured.

SCHOOL Cost, \$70,000
HOLLISTER, San Benito Co., Cal.
 Two-story brick and concrete school (12 rooms).
 Owner—Sacred Heart School (Rev. Daniel Keenan, pastor), Hollister.
 Architect—R. G. Montgomery, Chamber of Commerce Bldg., Los Angeles.
 Bids previously received on this project were rejected and the three lowest bidders requested to re-figure the plans. Those re-figuring the job are: Barrett & Hily, 318 Harrison St., San Francisco; Jas. McLaughlin, 251 Kearny St., San Francisco, and H. C. Miller, Santa Clara.

TULARE, Tulare Co., Cal.—A. M. Rumley, Tulare, at \$1519 awarded contract by Tulare High School District to erect portable classroom building at Lincoln School grounds. Complete list of bids follows:

A. M. Rumley	\$1519
R. Hodgson, Porterville	1699
Irwin & Hopkins, Fresno	1700
C. H. Smith, Tulare	1840
E. J. Hiffner	2053

COALINGA, Fresno Co., Cal.—Until July 26, 5 P. M., bids will be received by F. J. McCollum, clerk, Coalinga Union High School District, for asbestos roof covering for academic buildings at high school. To be Carey 15-year Guarantee or equal. Certified check 10% required with bid. Further information obtainable from clerk.

Plans Being Prepared—Bond Election To Be Held July 26.

SCHOOL Cost, \$70,000
CALISTOGA, Napa Co., Cal.
 One-story class C brick school.
 Owner—Calistoga Grammar School District.
 Architect—Davis-Pearce, Inc., Builders' Bldg., Stockton.
 Election will be held July 26 to vote bonds to finance this structure.

Preliminary Plans Being Prepared—Contractor Selected.

SCHOOLS Cost, \$—
NAPA, Napa Co., Calif.
 Three fireproof school buildings.
 Owner—De La Salle Institute, Martinez.
 Architect—H. A. Minton, 525 Market St., San Francisco.
 Contractor—J. P. Brennan, 354 Hobart St., Oakland.

TULARE, Tulare Co., Cal.—Tulare High School District rejects bids to erect school bus garage addition at high school. E. H. Harrington, low

bider at \$6747. Plans will probably be revised and new bids asked. Complete list of bids follows:

E. H. Harrington	\$6747
C. H. Smith, Tulare	7098
E. J. Hiffner	7301
A. M. Rumley, Tulare	7314
R. Hodgson, Porterville	7490

Additional Sub-Contracts Awarded.
SCHOOL Cost, 1st unit, \$700,000
SAN FRANCISCO. Aptos and West-gates Aves.

Class A Aptos Junior High School (accommodate approx. 1200 students)
 Owner—City & County of San Francisco.

Architect—Shea and Shea, 454 Montgomery St.
 Contractor—MacDonald & Kahn, Financial Center Bldg.
Structural Steel—Schradner Iron W'ks, 1247 Harrison St.
Reinforcing Steel—Gunn, Carle & Co., 444 Market St.
Grading—Sibley Grading & Teaming Co., 165 Landers St.
 As previously reported electric work awarded to L. Flatland; mechanical work to F. W. Snook, 596 Clay St.; plumbing and gas fitting to Scott Co., 243 Minna St.

Plans Being Figured—Bids Close Aug. 4, 1 P. M.

GYMNASIUM Cost, \$—
COURTLAND, Sacramento Co., Cal.
 Completion of gymnasium building.
 Owner—Courtland Joint Union High School District, S. Mercer Runyon, secretary.
 Architect—W. E. Coffman, 437 Forum Bldg., Sacramento.
 Certified check 10%, payable to district required with bid. Plans obtainable from architect.

Plans Being Figured—Bids Close Aug. 4, 1 P. M.

ALTERATIONS Cost, \$—
COURTLAND, Sacramento Co., Cal.
 Alterations & additions to high school.
 Owner—Courtland Joint Union High School District, S. Mercer Runyon, secretary.
 Architect—W. E. Coffman, 437 Forum Bldg., Sacramento.
 Certified check 10%, payable to district required with bid. Plans obtainable from architect.

Bids Opened.

ALTERATIONS Cost, \$15,000
NORTH SACRAMENTO, Sacramento Co., Cal.

Alterations and additions to present grammar school.
 Owner—North Sacramento School District.
 Architect—Charles F. Dean, California State Life Bldg., Sacramento.

Low Bidder—P. F. Bender, 1012 Del Paso Blvd., Sacramento.

Complete list of bids follows:

P. F. Bender, Sacramento	\$14,252
W. L. Chatterton, Sacramento	14,427
Peterson, Sacramento	14,590
Campbell Const. Co., Sacto.	14,756
R. C. Swartz, North Sacto.	15,294
Wm. A. Thielbahe, Sacto.	15,440
Mathews Const. Co., Sacto.	15,484
Fred Engberg, Sacramento	15,794
C. J. Hopkinson, Sacramento	15,991
Linebarger and Swinerton, Inc., Sacramento	16,236
Fred Betz, Sacramento	16,621

Plans Being Completed.

GYMNASIUM Cost, \$180,000
SAN JOSE, Santa Clara Co., Calif.
 State Teachers' College Grounds, 4th and San Carlos Sts.
 Reinforced concrete gymnasium.
 Owner—State of California.
 Architect—Geo. B. McDougall, State Architect, Public Works Building, Sacramento.

Bids will be taken in about 2 weeks.

BANKS, STORES & OFFICES

OAKLAND, Cal.—Strehlow & Le Voir, 600 Central Ave., Alameda, at \$2240 submitted low bid to City Port Commission to erect office addition at Hangar No. 2, Municipal Airport. Complete list of bids, all taken under advisement, follows:
 Strehlow & Le Voir.....\$2240
 George Swanstrom.....2390
 Sullivan & Sullivan.....2495
 A. Fred Anderson.....2646
 Emil Person.....2794
 James B. Fennelly.....2796

Completing Plans

STORE Cost, \$5000
OAKLAND, Alameda Co., Cal. E. Fourteenth Street.
 One-story brick, wood frame and terra cotta tile store (26x116 ft.)
 Owner—Withheld.
 Architect—Guy L. Brown, American Bank Bldg., Oakland.
 Bids will be taken within a few days.

Sub-Contracts Awarded.

STORES Cost, \$35,000
OAKLAND, Alameda Co., Cal. East Franklin Street bet. 17th and 19th Streets.
 Two-story class C concrete and tile stores and offices.
 Owner—Gorrell Estate.
 Architect—Williams and Wastell, 374 17th St., Oakland.
 Contractor—L. R. McWethy, 337 17th St., Oakland.
Concrete—J. H. Fitzmaurice, 354 Hobart St., Oakland.
Plumbing—J. A. Freitas, 1907 E 14th St., Oakland.
Wiring—Matson & Seabrooke Co., 4115 Broadway, Oakland.
Structural Steel—Herrick Iron Works, 15th and Campbell Sts., Oakland.
Reinforcing Steel—Gunn, Carle & Co., 444 Market St., San Francisco.
Brick—A. Hallert, 2550 65th Avenue, Oakland.

Preliminary Plans Completed.
SALES ROOM Cost, \$10,000
ISLETON, Sacramento Co., Cal.
 One-story brick and concrete automobile sales room and service station (composition roof).
 Owner—H. R. Dunn, Isleton.
 Architect—Frederick S. Harrison, Peoples Bank Bldg., Sacramento

Preliminary Plans Being Prepared.
STORES Cost, \$5000
OAKLAND, Alameda Co., Cal. Location Withheld.
 One-story tile and brick stores.
 Owner—Name Withheld.
 Architect—Guy L. Brown, American Bank Bldg., Oakland.

Contract Awarded.
THEATRE & STORES Cost, \$250,000
LOS ANGELES, Cal. Livonia Avenue and Pico Blvd.
 Two-story concrete theatre and stores (theatre to seat 1500).
 Owner—Hollywood West Coast Theatres, Inc., Los Angeles.
 Architect—Boller Bros., 340 Douglas Bldg., Los Angeles.
 Contractor—Henry I. Beller Const. Co., 5613 Hollywood Blvd., Los Angeles.

Preparing Plans.
BANK & OFFICES Cost, \$750,000
PHOENIX, Arizona. Central Avenue and Monroe St.
 Ten-story and basement class A reinf. concrete bank and offices (138x150 feet).
 Owner—Valley Bank and Trust Co., Phoenix.
 Architect—Morgan, Walls & Clements, 1135 Van Nuys Bldg., Los Angeles, and H. H. Green, Phoenix, associated.

Plans Being Figured.
RESTAURANT Cost, \$300,000
LOS ANGELES, Cal. Vine St., bet.
Sunset and Hollywood Bldgs.
Two-story and basement concrete
and brick restaurant (50x150 ft.)
(Norman type).
Owner—Jacob Stern & Son.
Architect—Morgan, Walls & Clements
1134 Van Nuys Bldg., Los Angeles

Plans Being Prepared.
ADDITION Cost approx. \$250,000
SAN FRANCISCO. Clay and Mont-
gomery Sts.
Class A addition for offices and bank.
Owner—Bank of Italy, Clay and Mont-
gomery Sts.
Architect—H. A. Minton, Bank of Italy
Building.

Contract Awarded.
STORES Cost, \$10,000
SAN FRANCISCO. Divisadero Street
and Hayes.
One-story frame stores.
Owner—Bank of Italy, Clay and Mont-
gomery Sts.
Architect—H. A. Minton, Bank of Italy
Building.
Contractor—Thollander Const. Co., 749
Bryant St.

Working Drawings Being Prepared
BUILDING Total Cost, \$2,800,000
SAN FRANCISCO. SW Ellis and
Taylor Streets.
Twenty-story Class A building (Med-
ern Gothic type).
Owner—San Francisco Fine Arts
Building Co., Ltd.
Architect—Clausen & Amandes,
Hearst Bldg., San Francisco.
Contractor—Louis J. Cohn, 1 De Haro
St. and C. L. Wold Co., 185 Stev-
enson St., San Francisco.
Plans will be completed next week.

Sub-Bids Being Taken—Bids To Close
July 18.
FURNISHING Cost, \$60,000
SALINAS, Monterey Co., Cal.
Fitting up banking rooms.
Owner—Salinas National Bank.
Architect—Swartz & Ryland, Spazier
Bldg., Monterey; 372 Main St., Sa-
linas, and Brix Bldg., Santa Cruz.
Contractor—H. H. Larsen, 64 South
Park, San Francisco.

Plans To Be Prepared.
STORE Cost, \$—
OAKLAND, Alameda Co., Cal. 19th
and Broadway.
Class A department store (site 38 by
190-ft.).
Owner—Isidor Weinstein (Weinstein's
Department Store), 1037 Market
St., San Francisco.
Architect—Wm. Knowles, 1214 Web-
ster St., Oakland.

Plans Being Prepared.
ALTERATIONS Cost, \$15,000
SAN FRANCISCO. No. 1164 Mission
Street.
Alterations and additions to present
building.
Owner and Builder—MacDonald &
Kahn, Financial Center Bldg.,
San Francisco.
Architect—George de Colmesnil, 1016
Nevada Bank Bldg., San Francisco
Lessee—Enterprise Electric Co., 1164
Mission St., San Francisco.

Additional Sub-Contracts Awarded.
ALTERATIONS Cost, \$61,000
SAN FRANCISCO. Eighteenth and
Shotwell Streets.
Alterations and additions for distrib-
uting office building (reinforced
concrete).
Owner—Pacific Gas and Electric Co.,
425 Market St.
Architect—Eng. Dept. of Owner.
Contractor—H. H. Larsen, 64 South
Park Street.
Glass—W. P. Fuller & Co., 301 Mis-
sion Street.

Metal—Guilfof Cornice Works, 1234
Howard St., San Francisco.
Roofing—Bender Roofing Co.
Steel Sash—U. S. Metal Products Co.
As previously reported, ornamental
and miscellaneous iron and structural
steel awarded to Sullivan Iron Works,
780 Brannan St.; plumbing to J. J.
McLeod, 1246 Golden Gate Ave.; heat-
ing to Geo. Frankel, 445 Stevenson St.;
reinforced steel to W. S. Wetenhall,
15th and Wisconsin Sts.

Metal previously reported awarded
to Western Furnace & Cornice Co.
which was in error.

Contract Awarded.
ALTERATIONS Cost, \$18,000
SAN FRANCISCO. 773-75 Market St.
Alterations to present building.
Owner—California Mutual Bldg. and
Loan Assn., 55 Montgomery Street
(George Walker, president).
Architect—Pring & Lesswign, 605 Mar-
ket St.
Contractor—Cahill Bros., 206 Sansome.

Contract Awarded
ADDITION Cost, \$1,000,000
PORTLAND, Ore. Block bounded by
Fifth, Sixth, Alder and Morrison
Streets.
Fourteen-story Class A addition for
department store (100x100 ft.).
Owner—Meier & Frank Company.
Architect—DeYoung, Moscovitz &
Ronneberg and Herman Brook-
man, 1301 Yeon Bldg., Portland.
Contractor—Dinwiddie Constr. Co.,
Crocker Bldg., San Francisco.

Will have structural steel frame
with reinforced concrete floors and
walls; terra cotta exterior; composi-
tion and promenade tile roofing; ter-
razzo, cork, tile linoleum and rubber
floors; low pressure steam heating
plant; one freight elevator, 10 pass-
enger elevators; one side walk lift;
steel sash; hollow tile partitions.
Structural steel contract previously
awarded to Poole McGorringe Co.,
Portland.

Picture Contract Awarded.
REMODELING Cost, \$7000
SAN JOSE, Santa Clara Co., Cal. 79
South St.
Remodel present building (new fronts,
interior work, etc.)
Owner—Leon Jacobs.
Architect—Charles McKenzie, Twohy
Bldg., San Jose.
Contractor—Wm. Caldwell, San Jose.
Interior Fixtures—Weber Show Case
& Fixture Co., 977 Mission St., San
Francisco.

Contract Awarded.
ALTERATIONS Cost, \$13,000
FRESNO, Fresno Co., Cal. 1212 Ful-
ton St.
Alterations and additions to present
building.
Owner—Smart Shop, 1212 Fulton St.,
Fresno.
Architect—None.
Contractor—E. J. Farr & Son, 1296
Linden St., Fresno.

THEATRES

Structural Steel Bids Wanted
THEATRE Cost, \$400,000
LOS ANGELES, Cal. No. 615 S.
Broadway.
One-story and basement Class A steel
frame and reinforced concrete
theatre (125x150 ft.; to seat 2000)
Owner—Gumbiner Amusement En-
terprises, Inc.
Architect—S. Charles Lee and S. T. H-
den Norton, 1210 Financial Center
Bldg., Los Angeles.

Preparing Plans
THEATRE Cost, \$200,000
IRVINE, Los Angeles Co., Cal.
Two-story Class A reinforced concrete
theatre (to seat 1200).
Owner—Fox West Coast Theatres,
Inc., Washington St. and Vermont
Ave., Los Angeles.
Architect and Engineer—Balch &
Stanberry, Film Exchange Bldg.,
Los Angeles.

Contract Awarded.
THEATRE Cost, \$300,000
OCEANSIDE, San Diego Co., Cal.
Four-story Class A reinforced con-
crete stores, theatre, offices and
hotel (100x220 feet).
Owner—Bernard Nessa Estate.
Architect—Emmett G. Martin, Chester
Williams Bldg., Oceanside.
Contractor—Pozzo Constr. Co., 421
Macy St., Los Angeles.

Plans Being Prepared.
THEATRE Cost, \$250,000
LOS ANGELES, Cal. Melrose and
La Brea Aves.
Two-story Class A reinforced con-
crete theatre (to seat 2000).
Owner—Fox West Coast Theatres,
Inc., Washington St. and Vermont
Ave., Los Angeles.
Architect and Engineer—Balch &
Stanberry, Film Exchange Bldg.,
Los Angeles.

Revised Sketches Prepared.
THEATRE Cost, \$300,000
BEVERLY HILLS, Los Angeles Co.,
Cal. Wilshire Blvd. and Beverly
Drive.
Two-story Class A reinforced concrete
theatre (to seat 2000).
Owner—Gore Bros., Inc.
Architect and Engineer—Balch &
Stanberry, Film Exchange Bldg.,
Los Angeles.
Lessee—Fox West Coast-Hollywood
Theatres, Inc.

WHARVES AND DOCKS

LONG BEACH, Cal.—See "Dredg-
ing, Harbor Works and Excavations",
this issue. Construction contemplated
by Neptune Pier Co.

Contract Awarded.
PIERS, ETC. Cost, \$40,526
ALAMEDA, Alameda Co., Cal. Ala-
meda Airport.
Construct piers and bulkhead for
Yacht Harbor.
Owner—Alameda Airport, Inc.
Engineer—Private plans.
Contractor—Duncanson & Harrelson,
Crocker Bldg., San Francisco.

OAKLAND, Cal.—Until July 21, 4:30
P. M., bids will be received by G. B.
Hegardt, secretary, City Port Com-
mission, 424 Oakland Bank Bldg.,
to furnish and install complete automatic
sprinkler system, fire hose piping and
domestic water piping in Transit Shed
No. 1, Brooklyn Basin, foot of 9th Ave.
Previous bids rejected, these being:
Western Automatic Sprinkler Co., San
Francisco, \$24,430; Automatic Sprin-
kler Corp. of America, San Francisco,
\$25,900; The Turner Co., San Francis-
co, \$27,200; Grinnell Co. of the Pa-
cific, San Francisco, \$27,900. Plans ob-
tainable from secretary.

Plans Being Prepared.
PIERS Cost each, \$750,000
SAN FRANCISCO.
Three piers (to replace Piers Nos. 5,
7, 9 and 11).
Owner—State of California (Harbor
Commission), Ferry Bldg.
Engineer—Frank G. White, Ferry
Bldg.

MISCELLANEOUS CONSTRUCTION

OAKLAND, Cal. — Scott & Butler Electric Co., 19 Grand Ave., Oakland, at approximately \$30,000 awarded contract by Oakland Baseball Club to install lighting system in Oakland Baseball Park for night ball games. The project will involve the installation of one hundred and thirty-eight 1500-Watt globes. Considerable wiring is involved in the improvement. Projectors will be furnished by the Giant Manufacturing Company.

TRACY, San Joaquin Co., Cal.—C. B. Wightman of Byron, planning the construction of a community swimming pool, seeks authority of city council to connect up with city water and sewage systems. The pool will be located in Parker Acres, just outside the city limits.

Bids Opened—Held Under Advisement
MAUSOLEUM Cost, \$16,000
HOLLISTER, San Benito Co., Calif.
Catholic Cemetery.

Reinforced concrete mausoleum (to accommodate 110 crypts).

Owner—Rev. D. J. Keenan, Hollister.
Architect—Vincent Buckley, Underwood Bldg., San Francisco.

Plans To Be Prepared.

MAUSOLEUM Cost, \$750,000
LOS ANGELES, Cal. Riverside-Rendon Bldg.

Reinforced concrete Class A mausoleum (43x216 ft.).

Owner & Builder—Dr. T. W. Bishop, W. Oak St., South Pasadena; Mark F. Jones, Chapman Bldg., Los Angeles, and Associates.

Architect—To Be Selected.

Plans Being Revised—New Bids To Be Asked in Ten Days or Two Weeks.

KITCHEN EQUIP. Cost, \$—
SAN FRANCISCO. Harding Park Golf Course.

Furnish and install kitchen equipment for dining pavilion.

Owner—Park Commission.
Plans by Owner.

DELANO, Kern Co., Cal.—Until August 2, 8 P. M. bids will be received by Frank Panero, Clerk, Delano Joint Union High School District, to furnish and install sprinkler system for south lawn of high school; site is 226 by 152 feet, and will involve installation of 333 Hadden Sprinkler heads. Previous bids rejected due to error in specifications. Further information obtainable from clerk.

Plans Being Figured—Bids Close July 28, 11 A. M.

IMPROVEMENTS Cost, \$—
BAKERSFIELD, Kern Co., Cal.
Improvements at Kern County Fair Grounds.

Owner—County of Kern, F. E. Smith, county clerk, Bakersfield.
Architect—Edwin J. Symmes, Habersfield Bldg., Bakersfield.

Certified check 10% payable to chairman of the Board of Supervisors required with bid. Plans obtainable from architect.

Contract Awarded.
LABORATORY Cost, \$200,000
LOS ANGELES, Cal. Orange Drive.
Two-story and part basement class A reinforced concrete laboratory (150 by 297 ft.).

Owner—Hughes Development Co., 1001 N Orange Drive, Los Angeles.
Lessee—Multicolors, Ltd.

Plans by Eng. Dept. of Owner.
Contractor—Myer Bros., 3407 San Fernando Road, Los Angeles.
Sub-bids will be taken in about three weeks.

SACRAMENTO, Cal.—Capital Lumber & Wrecking Co., Sacramento, paying the city \$1010 awarded contract by city council to raze St. Francis Hotel, situated on city property, at southeast corner of Tenth and I Sts.

PASO ROBLES, San Luis Obispo Co., Cal.—Pacific Pipe & Supply Co., Los Angeles, at \$485.50 and \$573.75 submitted low bid to city council to furnish and install one gas fired low pressure steam boiler to meet the following specifications: 1 G. S.-11-Ideal Gas Fired Boiler (or equal) with "T" equipment; 1660, A.G.A. sq. ft. steam radiation, f.o.b. Paso Robles. Complete list of bids follows:

Pacific Pipe & Supply Co., Los Angeles, \$485.50; \$573.75.

E. A. Cornely, Inc., 1452 Bush St., San Francisco, \$594.

A. R. Cunningham, Atascadero, \$600.

Paso Robles Plumbing & Sheet Metal Co., Paso Robles, \$645.

W. H. Brooks, Paso Robles, \$656.15.

Fred Maze, Paso Robles, \$732.

Santa Maria Gas Co., Atascadero,

Additional Sub-Contracts Awarded.
FIELD HOUSE Cost, \$—
SAN FRANCISCO. Portola Playground

Felton and Hamilton Sts.

One-story playground field house.

Owner—City and County of San Francisco (Playground Commission).

Architect—Gardner Dailey, Room 610, 425 Mason St.

Contractor—Jacks and Irvine, 74 New Montgomery St.

Heating—Dowd & Welch, 3558 16th St.

Plumbing—P. Duvson, 65 Chesley St.

Reinforcing Steel—W. C. Hauck & Co., 230 San Bruno Ave.

Tile—Art Tile & Mantel Co., 221 Oak Street.

Structural Steel—Judson - Pacific Co., 609 Mission St.

Plastering—J. D. Griggs, 1731 20th St.

OAKLAND, Cal — San Leandro Rock Co., San Leandro, at 90c cu. yd. submitted low bid to City Port Commission to furnish and deliver Municipal Airport 5000 cu. yds. quarry waste from second grade rock. Taken under advisement.

Preparing Plans.
MAUSOLEUM Cost, \$150,000

LONG BEACH, Los Angeles Co., Cal. Cherry Road.

Two and part three-story and basement reinforced concrete mausoleum (275x50 ft.) (100 crypts).

Owner—Sunnyside Mausoleum Co.

Architect—Clarence L. Jay, 871 E. Washington St., Pasadena.

BUSINESS OPPORTUNITIES

SAN FRANCISCO—Names and addresses of the individuals or firms concerned in these opportunities will be furnished on request to the Business Opportunity Department of Daily Pacific Builder, 545-547 Mission Street. Phone Garfield 8744.

Rawle Buckner, \$11 First National Bank Bldg., Houston, Texas, wishes to represent any San Francisco firm desiring to establish an agency in Houston.

Paul E. Onwyler, 845 Golden Gate Ave., San Francisco, desires to secure salesman to distribute an electric water heater to be sold on a commission basis.

C. C. Schott, 55 Kennitt Ave., Buffalo, N. Y., is interested in securing agency from firm wishing to establish an outlet for their product in that territory.

GRANITE URGED FOR S. F. WAR MEMORIAL

The San Francisco Labor Council declares it would be a "grievous architectural fault to adopt terra cotta finish" for the proposed San Francisco War Memorial Buildings to be erected in the Civic Center.

In a communication to the Board of Trustees of the War Memorial, signed by Roe H. Baker, president and John A. O'Connell, secretary, the council says:

The San Francisco Labor Council takes great interest in the undertaking to erect a suitable War Memorial, worthy of the loyalty and patriotism of our citizenship, and designed to serve with entire satisfaction to all the people the high purposes for which it is to be used by this and future generations.

We have noted with some regret that the former Board and its architectural advisers did not, in our judgment, keep in mind several of the considerations that must be observed to fully realize the aforesaid high aims and purposes to be served in this undertaking.

Permit us to point out that the opposition to the plans of the previous Board arose from the fact that it failed to take into account the wishes of the citizenship of San Francisco, which favors a War Memorial suitable to stand in company with present buildings, and not presenting, to laymen and lovers of art alike, the incongruity of aspect that would result from failure to give the war Memorial buildings the same exterior finish as other buildings.

One of the foremost matters to be considered in the planning of such a structure is the exterior finish that gives the monumental character and aspect to such buildings. We think every sound planner would, without hesitation, adopt the view that our Civic Center demands uniform treatment in regard to exterior finish, and that as granite or equally monumental material of local manufacture has been provided for all previous buildings erected in the Civic Center, it would be a grievous architectural fault to adopt terra cotta finish as proposed by the former Board.

Probably the most popular form the opposition has assumed is the now practically universal economic sentiment in this community expressed in the slogan: "Keep payrolls in San Francisco." The circumstance that terra cotta manufacturers have their plants away from the city, pay the lowest wages, and do not contribute to the prosperity of the community, should be sufficient argument to impress any public board expending the funds of the city with the necessity of heeding public policy in regard to the expenditure of public moneys.

To set all doubts at rest, as to the intention of the present Board, we would respectfully and earnestly request that you at once announce your decision in this matter.

California State Highway Commission has cancelled a call for bids, scheduled to be opened July 30, to grade 0.4 miles in Trinity County, between the westerly boundary and Burnt Ranch.

Engineering News Section

BRIDGES

SAN BERNARDINO COUNTY, Cal.
—Until August 6, 2 P. M., bids will be received by State Highway Commission to construct three concrete bridges east of Ontario, one consisting of three 8-ft. 0-inch slab spans; another consisting of two 14-ft. 3-inch slab spans and a third consisting of one 15-ft. 0-inch slab span to be partially reconstructed and widened and the approaches to be widened and paved with asphalt concrete.

See call for bids under official proposal section in this issue.

SAN FRANCISCO.—City Engineer M. M. O'Shaughnessy completing plans for Third Street bridge over Channel. Plans provide for a single leaf draw-bridge, with 140-ft. span, 103-ft. clearance, six lanes for vehicular traffic, two six-ft. walks, two street car tracks, a Belt Line Railroad track and deepening of channel to allow 30-ft. of water at low tide. Estimated cost \$400,000, of which State Harbor Commission has agreed to pay \$150,000.

SISKIYOU COUNTY, Cal.—Rocca & Coletti, San Rafael, at \$37,779 awarded contract by State Highway Commission to construct reinforced concrete girder bridge over Klamath River about ten miles north of Yreka, consisting of four 80-ft. spans and two 72-ft. spans on concrete piers.

SANTA BARBARA COUNTY, Cal.
—As previously reported, bids will be received by State Highway Commission July 30 to construct reinforced concrete girder bridge over Nojoqui Creek, 7½ miles south of Zaca, composed of four 42-ft. spans on concrete bents and abutment. Project involves: 520 cu. yds. struc. excav.; 575 cu. yds. class A, 35 cu. yds. class B and 14 cu. yds. class E cem. conc.; 120,000 lbs. reinf. steel; 1360 lbs. bronze expansion plates; 1 lot misc. items of work.

COLUSA, Colusa Co., Calif.—R. B. McKenzie, Gerber, at \$19,966 awarded contract by State Highway Commission to construct reinforced concrete girder bridge over Bear Creek about 28 miles west of Williams, consisting of seven 31-ft. spans on conc. bents.

RIVERSIDE, Riverside Co., Cal.—County Surveyor A. C. Pulmore has presented to the board of supervisors plans for a 300-ft. bridge to be built across the San Jacinto river near the Soboba Indian Reservation. The board will ask the alternative bids on a wooden and concrete-steel span. Est. cost of the wooden bridge is \$22,000, of which the county would pay \$11,000, the balance from federal funds. The estimated cost of a concrete bridge is \$23,000. Bids would be asked on the basis of contractor furnishing cement and on basis of county furnishing the cement.

SISKIYOU COUNTY, Cal.—Rocca & Coletti, San Rafael, at \$97,884 awarded contract by State Highway Commission to construct reinforced concrete bridge over Shasta river about 7½ miles north of Yreka, consisting of two 200-ft. open spandrel arch spans, two 40-ft. girder spans, and two 32-ft. girder spans.

PLACERVILLE, El Dorado Co., Cal.—Until August 5, 2 P. M., bids will be received by Arthur J. Koletzke, county clerk, to

(a) construct reinforced concrete girder bridge over Perry Creek;

(b) construct reinforced concrete girder bridge over Youngs Creek.

Both structures are located near Fairplay. Separate bids are wanted on each structure. Certified check 10% payable to clerk of the Board of Supervisors required with bid. Plans obtainable from county clerk on deposit of \$10, returnable.

SAN JOSE, Santa Clara Co., Cal.

—Frank Neves, 891 Harrison St., San Jose, at \$15,483 awarded contract by city council to construct reinforced concrete bridge over Guadalupe river at Auzerais Ave.

TULARE COUNTY, Calif.—W. A. Bechtel Co., 206 Sansome St., San Francisco, at \$86,396 submitted low bid to U. S. Bureau of Public Roads, San Francisco, to construct Lodgepole, Glover Creek and Silliman Bridges and approaches between Sta. 223 plus 50 and E 270 plus 67 on Sections C2 and D1 of Generals Highway, Route 1, in Sequoia National Park, involving:

1,030 excavating, structural;
3,900 sta. yds. overhaul;
770 cu. yds. class A concrete;
58,850 lbs. reinf. steel;
1,532 cu. yds. cement rubble masonry
30 lin. ft. 18-in. corr. metal pipe;
85 lin. ft. curb stone;
615 sq. yds. membrane waterproofing;
4,000 cu. yds. backfill;
6,000 cu. yds. hauling selected material.

Complete list of bids follows:

W. A. Bechtel Co., S. F. \$86,396
Dan G. Munro, Los Angeles 103,956
Schuler & McDonald, Oakland 126,925
Engineer's estimate 88,880

SAN CARLOS, San Mateo Co., Cal.

—Wiggins and Kaiser, 6230 Hilton St., Oakland, at \$9835 awarded contract by city trustees to construct reinf. concrete culverts, as follows: one 3 ft. by 10 ft. reinf. conc. box culvert on Arroyo Ave at inter. of Walnut St. over Pulgaras Creek; one 5 ft. by 6 ft. reinf. conc. box culvert on Elm St. over Pulgaras Creek; one 5 ft. by 6 ft. reinf. conc. box culvert on Chestnut St. over Pulgaras Creek; one 5 ft. by 6 ft. reinf. conc. box culvert on Cedar St. over Pulgaras Creek, and one 13 ft. by 13 ft. reinf. conc. box culvert on Stanford Lane over Cordilleras Creek at east end of Stanford Lane. Complete list of bids follows:

Wiggins & Kaiser 9,835
C. H. Gildersleeve 10,337
Walter Todd 10,399
Thermotte Const. Co. 11,156
W. O. Tyson 11,413
M. J. Henry 11,480
R. Dizello 11,730
H. Perano 12,000
Collins & Martin 12,214
Pacific Const. Co. 12,395
Geo. French 12,498
H. H. Hauran 12,910
J. H. Fitzmaurice 13,079
Frank Bryant 13,698
H. L. Coombs 15,280
C. B. Cowden 16,700
Chas. Hardy 19,750

SAN BERNARDINO COUNTY, Cal.

—As previously reported, bids will be received August 6 by State Highway Commission to construct three concrete bridges east of Ontario, the first consisting of three 8-ft. slab spans; the second consisting of two 14 ft. 3 in. slab spans; and the third consisting of one 15 ft. slab span; to be partially reconstructed and widened and the approaches to be widened and paved with asphalt concrete. Project involves: 2300 cu. yds. rdwy. excavation without class; 620 cu. yds. struc. excav.; 60 cu. yds. concrete to be removed; 385 cu. yds. class A and 11 cu. yds. class E cem. conc.; 34,000 lbs. reinf. steel; 1700 sq. yds. subgrade for pave.; 700 tons asphalt concrete; 20 cu. yds. rock aprons; 1 lot misc. items of work.

SAN JOSE, Santa Clara Co., Cal.—

Until August 4, 11 A. M., bids will be received by Henry A. Pfister, county clerk, to construct reinforced concrete culvert on Canada Road at Dexter's Place, one mile east of the Pacheco Pass road, in Supervisor's District No. 1.

Certified check 10%, payable to county clerk required with bid. Plans obtainable from Robt. Chandler, county surveyor.

SAN JOSE, Santa Clara Co., Cal.—

Until August 4, 11 A. M., bids will be received by Henry A. Pfister, county clerk, to construct reinforced concrete culvert on McAbbe Rd. near McAbbe's House, in Supervisor's District No. 4.

Certified check 10%, payable to county clerk required with bid. Plans obtainable from Robt. Chandler, county surveyor.

SAN JOSE, Santa Clara Co., Cal.—

Until August 4, 11 A. M., bids will be received by Henry A. Pfister, county clerk, to construct reinforced concrete on Blossom Hill at Clikker's Place and two corrugated culverts in Supervisor's District No. 5.

Certified check 10%, payable to county clerk required with bid. Plans obtainable from Robt. Chandler, county surveyor.

LOS ANGELES, Cal.—General Engineering Corp., Ltd., 740 S. Broad-

way, Los Angeles, at \$204,320 awarded contract by Board of Public Works to construct Washington St. Bridge over Los Angeles river, between Soto and Harriett Sts. Will be 310 ft. in length consisting of five reinf. conc. girder spans, each 62 feet center to center; roadway 56 ft. wide with two 5 ft. walks. Involves approx. 830 234 lbs. reinf. steel; 6975 cu. yds. Class F concrete; 11,136 lin. ft. concrete piling, 15 ft. long.

EL DORADO CO., Cal.—Following

2 low bids received July 16 by State Highway Commission to construct reinf. concrete girder bridge across South Fork of American River at Riverton, composed of one 60 ft. span and two 54 ft. spans on concrete piers and bents, and grading and surfacing approaches with untreated crushed gravel or stone:
Ralph Hunter, Sacramento \$25,106
Geo. J. Ulrich, Modesto 30,194
Pennell Co., Sacramento 34,840

UKIAH, Mendocino Co., Cal.—Pacific Coast Engineering Co., Foot of 14th St., Oakland, at \$2995 awarded contract by county supervisors to construct 100-foot steel bridge over Calpella Creek near Calpella. Complete list of bids follows:
 Pacific Coast Eng. Co., \$2955
 Judson-Pacific Co., S. F., 3045
 Dyer Bros., San Francisco, 3500
 Smith Bros., Eureka, 3944
 Minneapolis Steel & Machine Co., Los Angeles 4429
 E. H. Smith is county surveyor

DREDGING, HARBOR WORKS & EXCAVATIONS

LIVE OAK, Sutter Co., Cal.—Until July 26, 7:30 P. M., bids will be received by Norman H. King, Secretary, Reclamation District No. 777, to construct approximately four and one-half miles of drainage canal. Certified check 10% required with bid. Plans obtainable from M. C. Polk, engineer for district, Chico.

LONG BEACH, Cal.—The Neptune Pier Co., Long Beach, reports that the financing of the new pleasure pier to be built on the site of the present Sliver Spray Pier at Chestnut Ave. and W. Seaside Blvd. is practically completed and work will start about Oct. 15. Plans are being prepared by Engineer R. D. Van Alstine, Heartwell Bldg., Long Beach. The new pier will be 1464 ft. in length of solid fill type and 378 ft. wide. The proposed work will cost \$1,500,000 and will involve the following:

60,000 tons rock rip-rap (rock in sizes from 500 lbs. to 20 tons);
 650,000 cu. yds. hydraulic fill;
 2,000 tons steel;
 9,000 cu. yds. concrete;
 70,000 lin. ft. wood piling for boat landings and anchors; sewers, gas mains and lighting system; sheet steel pile bulkhead.

The buildings on the pier will represent an additional million dollars.

SAN FRANCISCO—M. B. McGowan, Call Bldg., San Francisco, at \$120,568 awarded contract by Trustees of Islais Creek Reclamation District, 375 City Hall, to build wooden box drains on piles at Islais Creek Channel, involving:

45,000 lin. ft. wood piling (below cut-off);

3,500 lin. ft. 14x8 ft. wooden box drain
 50 lin. ft. 10x8 ft. wooden box drain

Appurtenances for drains.
 Project is located in the vicinity of Selby street from Oakdale to Evans Ave. and along and under the Southern Pacific Company's trestle to Islais Creek Channel and along Tulare St. adjacent to Islais Creek Channel.

BAKERSFIELD, Kern Co., Calif.—Until July 31, 2 P. M., bids will be received by H. I. Tupman, secretary, Kern River Levee District, Bank of Italy Bldg., Bakersfield, for reinforcement of levee on south side of Kern river from Oak street bridge to A. T. & S. F. railroad bridge. Certified check or bidder's bond of 10% payable to district required with bid. Plans obtainable from secretary.

STREET LIGHTING SYSTEMS

SANTA BARBARA, Calif.—Walker & Martin, 4215 S. Western Ave., Los Angeles, submitted low bid to city council at \$5233 for lighting system in W. Cabrillo Blvd., bet. State and Castillo Sts., involving cast iron standards, conduits, cables, etc. Other bids were: Pacific Eng. & Const. Co., \$5,-

297; H. C. Reid & Co., \$5486; Butte Elec. Co., \$6543; Humphrey Smith El. Co., \$7572; Nielson Smith Elec. Co., \$7940.

SACRAMENTO, Cal.—E. E. Burgess at \$11,660 awarded contract by city council (2903) to install electroliners with underground system in H St., bet. 6th and 12th Sts., involving 43 single light standards.

REDWOOD CITY, San Mateo Co., Cal.—City council declares intention (M-10) to install electroliner system in portions of Broadway, Brewster Ave., ad Arch St., together with underground system. Union Metal Mfg. Company's standards 1911 Act. Bond Act 1915. Hearing July 28. E. E. Myers, city clerk. C. L. Dimmitt, city engineer.

RICHMOND, Contra Costa Co., Cal.—City Engineer E. A. Hoffman completes plans for electroliner system in Tenth St. bet. Ripley St. and Cutting Blvd. A resolution of intention will be adopted at once.

SAN FRANCISCO—Bids will be asked shortly by the Constructing Quartermaster, Fort Mason, to replace electric lighting system at the Letterman General Hospital, involving approximately 35 standards of either Marbellite or Toncan metal type. Bids will be also be asked for underground cables and conduits in connection with above.

STREET LIGHTING SYSTEMS

NAPA, Napa Co., Cal.—City council has authorized the purchase of a Caterpillar "30" for use in connection with street department. H. A. Harrold, city engineer.

SAN RAFAEL, Marin Co., Cal.—County Supervisors authorize purchase of a portable compressor and accessories for \$1280 and a portable rock crusher for \$2000 for District No. 3 and a Caterpillar Tractor and loader for \$3552 for District No. 4. Rodney Messner is county surveyor.

Plans Being Figured—Bids Close July 21, 12 Noon.

PLANT Cost, \$—
 LIVERMORE, Alameda Co., Cal.
 Reinforced concrete washing, screening and loading plant.

Owner—Kaiser Paving Co., 1522 Latham Square Bldg., Oakland.
 Engineer—L. H. Nishkan, 525 Market St., San Francisco.

OROVILLE, Butte Co., Cal.—County Purchasing Agent Frank W. Boyle authorized by county supervisors to purchase \$17,500 worth of equipment for use in connection with highway construction. Equipment to be purchased and approximate costs include: Two box back Fords, \$10,000; two small trucks, \$1,800; one 30-hp. caterpillar, \$2,300; one 60-hp. caterpillar, \$4,000; one 8-ft. grader, \$1,400; one 12-ft. grader, \$2,100; 1 hydraulic scraper, \$600; one hydraulic scraper, \$800; tools for repair shop, \$1,700; jack hammer, \$170 rock spreader, \$40; water pump and trailer, \$150; blasting battery, \$100; Fordson tractor, \$600; one small truck, \$625. Old road equipment of the county will be sold to the highest bidder. J. A. Baumgarner is county road engineer.

MODESTO, Stanislaus Co., Calif.—Frank Paradis Co., Modesto, at \$1,023 awarded contract by city council to furnish motor truck for use of street department.

TULARE, Tulare Co., Cal.—California Motor Coach Co., at \$3,375 awarded contract by Tulare High School District to furnish school bus of 35-passenger capacity.

VALLEJO, Solano Co., Cal.—Until July 24, 11 A. M., bids will be received by Alf. E. Edgecombe, city clerk, to furnish and deliver one motor pick-up street sweeper, delivery to be made 14 days after award of contract. Certified check 10% payable to City required with bid. T. D. Kilkenny, city engineer.

MADERA, Madera Co., Cal.—Until August 11, 6 P. M., bids will be received by C. M. Petty, Secretary, Madera Union High School District, to furnish and deliver:

A.—One 1½ or 2 ton bus chassis, wheel base length to suit body builders, dual tires.

B.—One 1½ ton bus chassis, wheel base length to suit body builders, (Ford or equal dual tires rear).

C.—One bus body, mounted on chassis, forty passenger type with jump seats extra. Leather upholstering cross seats.

D.—One bus body, mounted on chassis, twenty-five passenger type, leather upholstering.

Surety or personal bond required with bid. Further information obtainable from secretary.

GILROY, Santa Clara Co., Cal.—Gilroy School District votes direct tax of 30 cents per \$100, a portion of which will finance the purchase of a motor school bus.

RAILROADS

NORTHERN CALIFORNIA—Following is a list of prospective bidders figuring plans for the proposed extensions of the Western Pacific Railroad from Bieber to Keddie and the Great Northern from Klamath Falls, Ore., to Bieber:

W. A. Bechtel Co., San Francisco.
 Utah Const. Co., San Francisco and Ogden.

A. Guthrie & Co., Portland.
 Hauser Const. Co., Portland.

Northern Const. Co., Seattle.

Stewart & Welch, Vancouver.

List Const. Co., Kansas City.

Morrison Knudsen Co., Boise.

Twohy Bros., Portland.

George Pollock Co., Sacramento.

R. B. Porter, Spokane.

Siems & Helmen, St. Paul.

COLMOR, N. M.—W. B. Story, president of the Santa Fe Railroad, has announced that the company will expend about \$15,000,000 for the construction of 350 miles of new railway line. Construction will connect Oklahoma with Colmor, 110 miles, and Spearman and Dumas, Texas, 50 miles. Other lines in Colorado and Oklahoma will complete the total.

BOULDER DAM—The Secretary of the Interior has authorized the Bureau of Reclamation to start work on the Boulder Dam, the first work to be the construction of a railway from Las Vegas to the dam site, about 41 miles. The estimated cost is \$2,350,000. The work will also include construction roads.

Raymond F. Walter, Wilda Bldg., Denver, is the chief engineer. The department has announced that all work will be done by contract and that no labor will be employed direct.

OKLAND, Cal.—Worden & Forsyth, 264 Sybil Ave., San Leandro, at (a) \$2750 and (b) \$1.45 submitted low bid to City Port Commission to furnish track laying at Ninth Ave. Pier. Eaton & Smith, San Francisco, only other bidder at (a) \$13,900; (b) \$1.25. Taken under advisement.

RESERVOIRS AND DAMS

KENNETT, Shasta Co., Cal.—Government engineers have started surveys for proposed Kennett Dam. Proposed dam will be about 520-ft. high, backing up waters in Sacramento River for a distance of thirty miles.

BOULDER DAM.—The U. S. Bureau of Reclamation is planning to expend approx. \$520,000 for the construction of water works, streets, and sewers in the new town to be located near the Boulder Dam site. The first construction work will be the water works, etc., and a railway costing \$2,350,000. Funds have been appropriated under a \$10,660,000 deficiency bill Raymond F. Walter, Wilda Bldg., Denver, is chief engineer. The department has announced that all work will be done by contract and that no labor will be employed direct.

LOS ANGELES, Calif.—Preliminary plans of the Los Angeles water and power department for a dam to be built in Bouquet Canyon provide for a 160-ft. dam, 900 ft. long and 300 ft. wide at the base, of dirt fill construction with a concrete or stone surface. The storage capacity is estimated at 30,000 acre feet. Plans are now before the Santa Clara River Conservation District of Santa Paula. The final plans will be offered to the state, the county of Ventura, and the city of Los Angeles, for approval before any construction is started.

SANTA ANA, Orange Co., Calif.—A. Kempke, Hobart Bldg., San Francisco, has been retained as consulting engineer to investigate the site of a proposed dam in Santiago Canyon to be built jointly by the John T. Carpenter Water Co. of El Modena, The Irvine Co. and the Serrano Water Co. of Villa Park. The proposed dam will cost bet. \$700,000 and \$800,000. Construction should start early in 1931.

SEWERS AND SEWAGE DISPOSAL PLANTS

MODESTO, Stanislaus Co., Calif.—Industrial Manufacturing and Supply Co., at \$486 awarded contract by city council to furnish and install sludge pump at sewer farm.

MODESTO, Stanislaus Co., Calif.—Dorr Co., Los Angeles, at \$6014 awarded contract by city council to install clarifier at sewer farm.

OAKLAND, Cal.—City council declares intention to construct sewer in south half of 6th St., between Castro and Grove Sts., with lampholes and wye branches. 1911 Act. Hearing August 7. Frank C. Merritt, city clerk. Walter A. Frickstad, city engineer.

RICHMOND, Contra Costa Co., Cal.—O. U. Miracle, San Diego, low bidder to construct sewers in the industrial district, has requested the city council to permit him to withdraw bid due to error. Miracle bid \$99,209, other bidders being: Jasper-Stacy Co., \$133,946; J. C. Hickey, \$186,557. Healy-Tibbitts Co., \$146,173. Engineer's estimate, \$110,000. Request taken under advisement for one week. A. E. Hoffman, city engineer.

WATER WORKS

PASO ROBLES, San Luis Obispo Co., Cal.—New bids will probably be asked by city council to furnish and install pump in connection with water system. Only one bid was submitted July 7 and was received after the hour set for the bid opening. It was not considered.

FRESNO, Fresno Co., Cal.—Bids will be called shortly to construct water distributing system in Fresno County Water Works District No. 1, involving:

7,000 ft. 4-in., 25,000 ft. 6-in. and 7,000 ft. 8-in. pipe line. Bonds in the sum of \$55,000 have been voted. A. Segel, 512 Griffin-McKenzie Building, Fresno, and Perry F. Brown, 702 Peralta St., Fresno, are consulting engineers.

STRATFORD, Kings Co., Cal.—Stratford Public Utility District will call an election shortly to vote bonds of \$30,000 to finance construction of a water works system.

PLAYGROUNDS & PARKS

BERKELEY, Alameda Co., Calif.—Until August 4, 8 P. M., bids will be received by Clara F. Andrews, secretary, Board of Education, 225 Milvia St., to resurface lower playground of Cragmont School, between Regal Rd., Spruce St. and Marin Ave. Certified check 10% payable to Berkeley School District required with bid. Specifications obtainable from Secretary on deposit of \$5, returnable.

SAN JOSE, Santa Clara Co., Cal.—Bids will be asked at once by John J. Lynch, city clerk, to construct tennis courts at new city playground at Delmas Ave. and Home St.

STREETS AND HIGHWAYS

VALLEJO, Solano Co., Cal.—John W. Huggard, 17 Brooklyn St., Vallejo, at \$3651.59 awarded contract by city council (171) to improve Indiana St. from Colusa to Amador St., involving grading; 5-in. cement concrete pavement; 6 ft. wide and 4 in. thick cement concrete sidewalks; 4-in. vitrified clay sewer; sewer lateral; cement concrete curbs and gutters.

SAN RAFAEL, Marin Co., Cal.—Until July 29, 8 P. M., bids will be received by Eugene W. Smith, City Clerk, (513) to improve portions of Jewell St., Acadia Ave., Palm Ave., etc., involving grading; Ironstone pipe main sewers and side sewers; hyd. concrete manholes; corr. iron pipe culverts; hyd. conc. and corr. iron arch culverts; hyd. conc. and corr. iron arch culverts; hyd. conc. catch-basins; pave with stone sub-base with hyd. concrete surface; hyd. conc. curbs and gutters. 1911 Act. Bond Act 1915. Certified check 10% payable to city required with bid. Plans on file in office of clerk. H. K. Brainerd, city manager.

SAN FRANCISCO—C. L. Harney, Call Bldg., San Francisco, at \$1,501 submitted low bid to Board of Public Works to grade portions of 44th Ave. bet. Ortega and Rivera Sts., and bet. Vicente and Sloat Blvd.-Sunset Well System, involving 7500 cu yds. excavation (3700 cu yds. bet. Ortega and Rivera Sts. and 4200 cu yds. bet. Vicente St. and Sloat Blvd.) Complete list of bids follows:

C. L. Harney	.....	\$1,501
E. J. Treacy	.....	1,896
F. J. McHugh	.....	2,133
Meyer Rosenberg	.....	2,607
Granfield, Farrar & Carlin	.....	2,765

UKIAH, Mendocino Co., Cal.—Ellison Bros., Fort Bragg, at \$4040 awarded contract by county supervisors to construct portion of Ukiah-Bloomville road in District No. 1, known as Soda Creek Bluffs, involving: 10,000 cu yds. unclassified excavation with free haul of 500 ft., including all clearing; install 80 lln.

ft. 15-in. galvanized culvert pipe (to be furnished by the county). Complete list of bids follows:

Ellison Bros., Fort Bragg	.....	\$4040
W. C. Colley, Berkeley	.....	4466
J. W. Pickle and M. A. Christy	.....
Ukiah	.....	6432
Christie & Allen, Fort Bragg	.....	6880
E. H. Smith is county surveyor.		

BERKELEY, Alameda Co., Calif.—Proceedings have been started by the city council to pave Spruce St. at a cost of \$210,000. Tentative plans provide for county paying 20% of total cost, the city 20% and the property owners affected 60%.

YUBA CITY, Sutter Co., Cal.—J. E. Johnston, Savings and Loan Bldg., Stockton, at \$212,262.10, on the basis of asphaltic concrete pavement on 5-in. crusher run base, awarded contract by Joint Highway District No. 12, to improve sections of Woodland-Yuba City Cut-off between Knights Landing City Cut-off in Yolo county and the Garden Highway one-half mile west of Tudor in Sutter county, being sections 9.9 miles in length between Robbins in Sutter county and Garden Highway. Approximate quantity of materials involved are: 36,000 cu. yds. excav. and subgrade; 17,000 tons crusher run base; 21,500 cu. yds. pavement.

SAN BERNARDINO CO., Cal.—As previously reported, bids will be received by State Highway Commission July 30 to grade and surface with oil treated crushed gravel or stone, 9.5 miles between 14½-miles SW of Dunn and Cronise Valley. Project involves: 89,000 cu. yds. rdwy. embankment; 132,000 cu. yds. overhaul; 81,000 cu. yds. excav. ditches and channels; 2,860 cu. yds. struc. excav.; 51,000 cu. yds. pit run gravel sub-base; 2700 M gals. water applied to subgrade; 25,500 tons oil treated crushed gravel or stone surf.; 700 cu. yds. screenings (seal coat); 700 bbls. fuel oil (seal coat); 90 lln. ft. 18-in. and 598 lln. ft. 24-in. corr. metal pipe; 13,915 lln. ft. furnish treated piles; 533 each. driving piles; 94 M. ft. b.m. untreated Douglas fir timber, select struc. grade; 115 M. ft. b.m. redwood timber, dense select all-heart struc. grade; 130 M. ft. b.m. redwood timber, select all-heart struc. grade; 502 sta. finish rdwy.; 148 monuments. State will furnish corr. metal pipe.

TRINITY COUNTY, Cal.—Are previously reported, bids will be received July 30 by State Highway Commission to grade 0.4 miles between west boundary and Burnt Ranch. Project involves: 30,800 cu. yds. rdwy. excav. without class.; 3100 sta. yds. overhaul; 1500 cu. yds. struc. excav.; 55 cu. yds. rubble masonry (head-walls); 106 lln. ft. 18-in., 276 lln. ft. 54-in., 290 lln. ft. 60-in. and 144 lln. ft. 84-in. corr. metal pipe; 21 sta. finish rdwy.; 54 monuments. State will furnish corr. metal pipe and cast steel frame and covers for drop inlets.

RICHMOND, Contra Costa Co., Cal.—City council declares intention (476) to improve Pullman Ave., bet. Cutting Blvd. and Panhandle Blvd., and Panhandle Blvd., bet. Pullman Ave. and Del Norte Place, and portions of Cutting Blvd., 45th, 47th and Monument Sts., involving grading; pave with 4-inch broken stone cushion with 3-course asphalt concrete pavement, consisting of 2-course base of 6-inch asph. conc. and 2-in. asph. conc. surface; cem. conc. curbs with galv. steel curb bars; cem. conc. gutters, walks; corr. iron pipe inlets; corr. iron and cem. conc. culverts. 1911 Act. Hearing July 23. A. C. Faris, city clerk. Edward A. Hoffman, city engineer.

PLACER COUNTY, Calif.—As previously reported, bids will be received July 30 by State Highway Commission to grade and pave with cement concrete, 1.7 miles through Lincoln. Project involves: 9500 cu. yds. rdwy. excav. without class; 10,500 sta. yds. overhaul; 15,200 cu. yds. imported borrow; 800 cu. yds. imported selected material; 750 cu. yds. struc. excav.; 20,000 sq. yds. subgrade for pave. 4150 cu. yds. class A cem. conc. (pavement); 195 cu. yds. class A cem. conc. (struct.); 8 cu. yds. class E cem. conc. (struct.); 122,500 lbs. bar reinf. steel (pave. and struc.); 2000 cu. yds. salvaged macadam and oil mixed surfacing; 390 lin. ft. 12-in. and 710 lin. ft. 18-in. corr. metal pipe; 10 lin. ft. 8-in. and 14 lin. ft. 12-in. vit. clay pipe; 235 lin. ft. special timber headers; 1.0 mi. move and reset property fence; 1500 lin. ft. remove and salvage existing property fences; 670 lin. ft. remove and salvage existing guard rail; 89 sta. finish rdwy. State will furnish corr. metal pipe.

MENDOCINO COUNTY, Calif.—As previously reported, bids will be received by State Highway Commission to grade and surface with crushed gravel or stone and construct timber bridges, on two miles between McDonald and Wandering. Project involves: 13 sta. clear and grub right of way; 75,500 cu. yds. rdwy. excavation without class; 200,000 sta. yds. overhaul; 3340 cu. yds. struc. excav.; 5000 cu. yds. untreated crushed gravel or stone surf.; 900 cu. yds. class A cem. conc. (struct.); 50 cu. yds. class A cem. conc. (placed by tremie); 75 cu. yds. class B cem. conc.; 104,600 lb. steel reinf. steel (struct.); 26,000 lbs. struc. metal; 110 lin. ft. 15-in., 996 lin. ft. 18-in. and 162 lin. ft. 30-in. corr. metal pipe; 800 lin. ft. 8-in. perforated metal pipe underdrain; 58 M. ft. b.m. redwood timber, dense select all-heart struc.; 15 M. ft. b.m. redwood timber, select all-heart struc.; 0.6 mi. new property fence; 60 each timber guide posts; 106 sta. finish rdwy.; 22 monuments. State will fur. corr. metal pipe.

SAN FRANCISCO—Until July 16, 2:30 P. M., bids will be received by Sid J. Hester, Secretary Board of Public Works, to grade portions of 44th Ave., between Ortega and Rivera Sts., and between Vicente and Sloat Boulevard-Sunset Well System, involving 7900 cu. yds. excavation, (3700 cu. yds. between Ortega and Rivera streets and 4200 cu. yds. between Vicente St. and Sloat Blvd. Estimated cost \$2400. Bond of \$1200 required of successful bidder. Plans obtainable from Bureau of Engineering, 3rd Floor, City Hall

GILROY, Santa Clara Co., Cal.—Until July 2, 8 P. M., bids will be received by E. F. Rogers, city clerk, to improve portions of Hanna St., First

St., Sixth St., Alexander St., etc., involving grading; asphalt concrete pavement; cement concrete curbs, gutters and walks; storm water sewer. 1911 Act. Bond Act 1915. Certified check 10% payable to city required with bid. Plans on file in office of clerk and obtainable from Raymond W. Fisher, city engineer.

MONO COUNTY, Cal.—Until August 6, 2 P. M., bids will be received by State Highway Commission to grade 12.9 miles between Sonora Junction and Coleville.

See call for bids under official proposal section in this issue.

SAN DIEGO COUNTY, Cal.—Until August 6, 2 P. M., bids will be received by State Highway Commission to pave with Portland cement concrete, 5.4 miles between Balboa Ave. and Torrey Pines Road.

See call for bids under official proposal section in this issue.

LOS ANGELES COUNTY, Cal.—Until August 6, 2 P. M., bids will be received by State Highway Commission to widen with bituminous treated rock borders, 4.3 miles between Santa Clara river and Castaic School.

See call for bids under official proposal section in this issue.

GILROY, Santa Clara Co., Cal.—City Council declares intention (12-1930) to improve Rosanna St., bet. 3rd and 2nd Sts., and 2nd St., bet. Hanna and Church Sts., including intersection, involving grade; asphalt concrete pavement; cement concrete curbs, gutters, walks. 1911 Act. Bond Act 1915. Hearing July 25. E. F. Rogers, city clerk. Raymond W. Fisher, city engineer.

MARYSVILLE, Yuba Co., Cal.—Until July 21, 10 A. M., bids will be received by W. W. Strief, county clerk, to furnish and spread crushed rock on north 6 1/10 miles of Willow Glen Road. Certified check 10% payable to clerk required with bid. Specifications obtainable from clerk on payment of \$1.

EL DORADO COUNTY, Cal.—G. E. Finnell, 5th and E Broad Sts., Sacramento, at approximately \$112,000 submitted low bid to U. S. Bureau of Public Roads, San Francisco, to grade 2.82 miles and surface 5.14 miles of Section C, Route 32, Placerville-Lake Tahoe National Forest Highway, Eldorado National Forest in Eldorado county, involving: 21 acres clearing; 61,194 cu. yds. unclass. excav.; 700 yds. struc. excav.; 26,000 sta. yds. overhaul; 2.32 mi. fine grading, subgrade and shoulder; 14,000 cu. yds. crushed rock surface; 700 cu. yds. supplemental crushed rock; 107 cu. yds. cem. rubble massory; 1950 lin. ft. C. M. pipe in place;

200 lin. ft. 6-in. porous tile underdrain in place; 1.04 miles move and reset fence; 58 right of way monuments; 2550 cu. yds. coarse screenings; 1050 cu. yds. fine screenings; maintenance of detours; estimated cost \$2000.

SAN MATEO CO., Calif.—Basch Bros., Title Insurance Bldg., Los Angeles, at \$402,982 awarded contract by State Highway Commission to grade and pave with cement concrete 5.2 miles between South San Francisco and Burlingame.

SAN BERNARDINO CO., Cal.—Geo. Herz and Co., San Bernardino at \$507,402 awarded contract by State Highway Commission to grade and surface with oil treated crushed gravel or stone, 28.7 miles between 6 miles east of Amboy and 1 1/2 miles east of Essex.

PLACER-NEVADA Counties, Cal.—Tieslaw Bros., 2515 Grove St., Berkeley, at \$122,807 awarded contract by State Highway Commission to surface with crusher run base and untreated crushed gravel or stone surf., 7.2 miles between Airport and Yuba Pass.

RIVERSIDE COUNTY, Cal.—As previously reported, bids will be received by State Highway Commission July 30 to grade and surface with oil treated crushed gravel or stone, 16.2 miles between Desert Center and 3/4 miles west of Hopkins Well. Project involves 104,500 cu. yds. rdwy. embankment; 118,100 sta. yds. overhaul; 218,400 cu. yds. ditch and channel excav.; 15,100 cu. yds. pit run gravel subbase; 4500 cu. yds. struc. excav.; 45,000 tons oil treated crushed gravel or stone surf.; 1200 cu. yds. crushed gravel or stone screenings; 1170 bbls. fuel oil (seal coat); 240 lin. ft. 24-in. and 1678 lin. ft. 36-in. corr. metal pipe; 4500 M. gals. water applied to subgrade; 17,400 lin. ft. furnish treated piles; 680 each, driving piles; 130 M. ft. b.m. untreated Douglas fir timber, select struc. grade; 169 M. ft. b.m. redwood timber, dense select all-heart struc. grade; 149 M. ft. b.m. redwood timber, select all-heart struc. grade; 855 sta. finish rdwy.; 321 monuments. State will fur. corr. metal pipe.

SANTA ROSA, Sonoma Co., Cal.—City Council declares intention (1627) to improve Cleveland Ave., between Carrillo St. and Ridgway Ave., involving grading; 4-inch macadam base with 3-inch asphaltic concrete surface pavement, laid in 1-course; and hydraulic cement concrete curbs and gutters. 1911 Act. Bond Act 1915. Hearing Aug. 5. Ney L. Donovan, city clerk.

SAN LEANDRO, Alameda Co., Cal.—Until July 16, 8 P. M., bids will be received by E. F. Hutchings, city clerk, to improve Glen Drive, involving grade; pave, etc. Certified check 10% payable to City required with bid. Plans on file in office of clerk.

SAN MATEO, San Mateo Co., Cal.—Until July 21, 8 P. M., bids will be received by E. W. Foster, city clerk, to widening San Mateo Drive, between Second Ave. and Baldwin Ave. Certified check 10% required with bid. Plans on file in office of city clerk.

LYON COUNTY, Nevada—A. D. Drumm, Fallon, Nevada, at approximately \$21,500 awarded contract by State Highway Commission to furnish asphaltic fuel oil, apply and mix with crushed rock or crushed rock gravel surface on 11.72 miles between Yerington and Wilson's. Nevada Paving Co. only other bidder at approximately \$22,678; engineer's estimate, \$23,065.

NO NOT RISK AN EXPERIMENT

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STRONG—PURE—PLASTIC

Ten Years of Uniformly Satisfactory Experience in High

Class Pacific Coast Construction

FOR BRICK MORTAR, WHITE COAT AND SAND FLOAT FINISH

Sold by Representative Dealers Everywhere

PITTSBURG, Contra Costa Co., Cal.—Petitions are being circulated seeking paving several streets in the De Plaza and Greene Additions, including Mortirolo and Grossito Aves., C St., Brennan Ace., and portions of D St. E. L. O'Hara is city engineer.

EUREKA COUNTY, Nevada—J. N. Tedford, Fallon, Nevada, at \$58,233.66 awarded contract by State Highway Commission, Carson City, to grade, construct structures and oil surface, 11.65 miles between Hay Ranch and Eureka. Other bids: Dodge Bros., Inc., Fallon, Nev., \$58,426; Wheelwright Constr. Co., Ogden, Utah, \$64,832.12; engineer's estimate, \$59,737.53.

GUSTINE, Merced Co., Cal.—City council declares intention (4) to improve portions of North Ave., 1st Ave., etc., involving grading; pave with waterbound base course of gravel with clay binder with Emulsified asphalt surface, 1-inch thick; corrug. galv. iron culvert pipe. Imp. Act 1911. Bond Act 1915. Hearing July 22. W. L. Chappell, city clerk. A. E. Cowell, city engineer.

REDWOOD CITY, San Mateo Co., Cal.—County Surveyor Geo. A. Kneese instructed by county supervisors to make surveys for widening the present La Honda road to a 30-ft. roadway. Previous estimates prepared for the proposed Woodruff Creek road to connect the Skyline Blvd. and La Honda road placed the cost of this 3-mile connection at \$84,000.

OAKLAND, Cal.—City council declares intention to improve Marquerte Drive, between Hermosa Ave. and Hillview Lane and portions of Hillview Lane adjacent to Marquerte Drive, involving grading; curbs, drains; pave; cem. walks; storm water drain. 1911 Act. Hearing August 7. Frank C. Merritt, city clerk. Walter Frickstad, city engineer.

SANTA ANA, Orange Co., Cal.—H. W. Rohl Co., Roosevelt Bldg., Los Angeles, at \$19,255 awarded contract by directors of Joint Highway District No. 15 to improve Ortega Highway from point near San Juan Hot Springs following San Juan Creek to Morrill Canyon, Riverside County, involving 6.2 miles grading; corrugated iron metal pipe for culverts.

SAN CARLOS, San Mateo Co., Cal.—Union Paving Co., Call Bldg., San Francisco, at \$34,465 submitted low bid to city trustees (30-4) to improve portions of rdwy. Ave., Chestnut St., Elm St., etc., involving grading; cement concrete curbs, walks, gutters; 4-in. waterbound rock macadam pave. with 3-in. asph. conc. surface; salt glazed ironstone pipe sanitary sewers with wyes; cem. conc. storm water sewers. Complete list of bids follows:

Union Paving Company	\$34,465
Hanrahan Company	33,997
Peninsula Paving Co.	33,328
H. E. Connor	33,622

SAN FRANCISCO.—H. R. Love, 4354 26th St., at \$319 submitted low bid to Board of Public Works to construct Castro, 17th and Market Sts. traffic improvement. E. J. Treacy on-ly other bidder at \$393.

MODOC CO., Cal.—Following bids received July 16 by State Highway Commission to grade and surface with untreated crushed gravel and stone about 1.4 miles in length, between 3 miles and 4.4 miles east of Alturas:

C. N. Chittenden, Napa, \$51,532
Dunn & Baker, Klamath Falls 74,875

SAN JOAQUIN CO., Cal.—Following bids received July 16 by State Highway Commission to grade and pave with asphalt concrete about 1.4 miles in length between Forest Lake and the northerly boundary:

Clark & Henery Const. Co.,	
Chancery Bldg., S. F.	\$57,147
Heafey-Moore Co., Oakland	59,581
Valley Paving & Const. Co., Vi-	
salia	62,162

KERN COUNTY, Calif.—Following 3 low bids received July 16 by State Highway Commission to surface with oil treated crushed gravel or stone about 13.9 miles in length, between 1½ miles east of Cottonwood Creek and Democrat Springs:

A. Teichert & Son, Sacto.	\$141,335
Hartman Const. Co., Bakers-	
field	141,433
G. W. Ellis, Glendale	144,240

HUMBOLDT COUNTY, Cal.—Englehart Paving & Const. Co., Eureka, at \$22,043 awarded contract by State Highway Commission to grade and pave with cement concrete, 0.6 mile between ½-mile south of Eureka and Eureka.

TRINITY CO., Cal.—State Highway Commission has cancelled call for bids, scheduled to be opened July 30, to grade 0.4 mile between westerly boundary and Burnt Ranch. Bids on this unit will probably be called for at a later date.

MONO COUNTY, Calif.—As previously reported, bids will be received August 6 by State Highway Commission to grade 12.3 miles between Sonora Junction and four miles south of Coleville. Project involves: 265 sta. clear and grub right of way; 259,000 cu. yds. rwy. excav. without class.; 630,200 sta. yds. overhaul; 8000 cu. yds. imp. borrow; 1200 cu. yds. struc. excavation; 265 cu. yds. class A cem. conc. (struct.); 19,000 lbs. bar reinf. steel (struct.); 2294 lin. ft. 38-in., 440 lin. ft. 24-in. and 38 lin. ft. 30-in. corrugated metal pipe; 1 mile move and reet prop. fence; 6410 sq. yds. hand placed rock slopes; 634 sta. finishing rdwy.; 183 monuments. State will furnish corr. metal pipe.

SAN DIEGO COUNTY, Calif.—As previously reported, bids will be received by State Highway Commission August 6 to pave with cement concrete 5.4 miles between Balboa Ave. and Torrey Pine Road. Project involves: 5000 cu. yds. rdwy. excavation without class. (slide removal); 50,000 sta. yds. overhaul (slide removal); 96,000 sq. yds. subgrade for pave.; 19,900 cu. yds. class A cem. conc. (pave.); 455,000 lbs. bar reinf. steel (pave.); 60 cu. yds. removing existing concrete pave.; 287 sta. finish rdwy.

PLUMAS COUNTY, Cal.—Until August 5, 2 P. M., bids will be received by C. H. Sweetser, district engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, to grade 8.335 miles of Section E, Route 23 of the Quincy-Beckwith National Forest Highway in Plumas National Forest, involving:

- (1) 26.55 acres clearing;
- (2) 212,043 cu. yds. unclass. excav.
- (3) 387 cu. yds. struc. excavation;
- (4) 42,339 sta. yds. overhaul;
- (5) 8,335 miles finishing;
- (6) 16.9 M.B.M. treated timber in place;
- (7) 400 lin. ft. treated timber piling in place;
- (8) 174 cu. yds. concrete in place;
- (9) 6,350 lbs. reinf. steel in place;
- (10) 4,166 lin. ft. corr. metal pipe in place;
- (11) 140 sq. yds. bit. wearing surface in place;
- (12) haul and pile logs (lump sum);
- (13) 150 right of way monuments (each).

Plans obtainable from engineer on deposit of \$10, checks for same to be made payable to the Federal Reserve Bank of San Francisco.

VALLEJO, Solano Co., Calif.—City council declares intention (172) to improve Florida St. bet. Sonoma Ave. and Alameda St., including crossings, involving re-grading; re-pave with 4-inch base course and 2-inch top course asphalt concrete; 4-inch vitrified clay pipe house lateral sewers. 1911 Act. Bond Act 1915. Hearing July 30. Alf. E. Edgumbe, city clerk. T. D. Kilkeny, city engineer.

LOS ANGELES COUNTY, Cal.—As previously reported, bids will be received Aug. 6 by State Highway Commission to widen with bituminous treated rock borders, 4.3 miles bet. Santa Clara River and Castaic School. Project involves: 3600 tons bit. treated rock borders; 225 sta. finish rdwy.

SAN BRUNO, San Mateo Co., Cal.—Until July 30, 3 P. M., bids will be received by Emil A. Ehm, city clerk, (1129) to improve Scott St., San Mateo Ave., Pacific, Atlantic, Bay Shore Circle, north and south, and other streets, involving grading; paving; cement concrete curbs, gutters, side-walks; cement concrete pipe storm water sewers; manhole; catchbasins. Bond Act 1915. Imp. Act 1911. Certified check 10% payable to city required with bid. Plans on file in office of clerk. G. A. Kneese, engineer, Court-house, Redwood City.

FRESNO, Fresno Co., Cal.—City council declares intention (105-D) to improve portions of Glenn Ave., involving cement concrete paving; cem. conc. curbs and driveway approaches. 1911 Act. Hearing July 31. H. S. Foster, city clerk.

CONTRACTORS' MACHINE WORKS

SPECIALISTS ON REPAIRING AND REBUILDING OF

Bunkers, Hoppers, Chuting, Conveyors, Rollers, Mixers, Hoists, Shovels, Tractors, Pavers, Crushers, Drag Lines, Elevators, Car Unloaders, and other Road and Building Equipments;

BLACKSMITHING AND WELDING

Builders of Rosenberg Portable Car Unloaders

CREAR & BATES

57 Zoe St., bet. 3rd and 4th, off Brannan St.
Phone GARfield 4374
San Francisco

SAN LEANDRO, Alameda Co., Cal.—Until July 16, 8 P. M., bids will be received by E. F. Hutchings, city clerk, to improve Washington Ave., Castro St., Estabrook St., Harlan and Saunders Sts., involving grade; pave, etc. Certified check 10% payable to City required with bid. Plans on file in office of clerk.

OAKLAND, Cal.—San Leandro Rock Co., San Leandro, at 90c cu. yd. submitted low bid to City Port Commission to furnish and deliver Municipal Airport 5000 cu. yds. quarry waste from second grade rock. Taken under advisement.

SAN FRANCISCO—Until July 30, 2:30 P. M., bids will be received by S. J. Hester, Secretary, Board of Public Works, to improve Ullua St., bet. 35th and 38th Aves. and 38th and 37th Aves., between Taraval and Vicente Sts. Estimated cost \$2300. Certified check 10% payable to clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd Floor, City Hall.

OFFICIAL PROPOSALS

NOTICE TO CONTRACTORS

MECHANICAL WORK

SEALED BIDS will be received by Geo. B. McDougall, State Architect, Public Works Building, 11th and P Streets, Sacramento, California, up to 2 o'clock P. M., Tuesday, August 12, 1930, said bids thereafter on said day to be publicly opened and read, for the installation and completion of the Mechanical Work for the Kitchen and Commissary Building, Whittier State School, Whittier, California, in accordance with plans and specifications therefor.

Mechanical Work includes Plumbing, Heating, Ventilation and Electrical Work. Separate bids will be received for "Electrical Work" and for "Plumbing, Heating and Ventilation Work." Combined bids will also be received covering all four branches of the work.

Plans and specifications are on file for examination in the office of the Division of Architecture, Public Works Building, Sacramento, California, and also at Room 1025 Associated Realty Building, Los Angeles, and at the principal California Cities Builders' Exchange Offices.

Plans, specifications, and proposal forms may be secured by licensed licensed Contractors who have qualified or who will qualify by furnishing a verified statement of experience and financial condition as required by the provisions of Chapter 644, Statutes 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Questionnaire forms may be secured from the Division of Architecture.

Bids will not be accepted from a Contractor to whom a proposal form has not been issued and all bids must be on proposal forms supplied by the State.

Requests for plans shall be accompanied by a deposit of twenty-five (\$25.00) dollars. Check shall be made payable to the Department of Public Works, Division of Architecture. Deposit will be returned upon receipt of the set in good condition at Sacramento Office of the Division within 30 days after opening bids, otherwise it will be forfeited to the State.

All bids must be filed at the office of the State Architect on or before the time heretofore stated and in

accordance with the "Rules for Bidding" accompanying the proposal form.

No bid will be considered unless cash, a bidder's bond made payable to the State of California, or a certified check made payable to the "State Engineer, Department of Public Works," in the sum of at least ten per centum (10%) of the amount of the bid is enclosed with the bid.

The Division of Architecture, State Department of Public Works, reserves the right to reject any or all bids and to waive any informality in any bid received.

STATE DEPARTMENT OF PUBLIC WORKS,

DIVISION OF ARCHITECTURE,

Geo. B. McDougall,
State Architect.

B. B. MEEK,
Director of Public Works.

NOTICE TO CONTRACTORS

GENERAL WORK

SEALED BIDS will be received by Geo. B. McDougall, State Architect, Public Works Building, 11th and P Streets, Sacramento, California, up to 2 o'clock P. M., Tuesday, August 12, 1930, thereafter on said day to be publicly opened and read for the erection and completion of the General Work for the Kitchen and Commissary Building, Whittier State School, Whittier, California, in accordance with plans and specifications therefor.

The Kitchen and Commissary Building is a one-story and partial basement structure of concrete, brick and frame construction, with interior partitions of hollow tile, wood roof construction and tile roof. The total floor area is approximately 12,500 square feet.

Plans and specifications are on file for examination in the office of the Division of Architecture, Public Works Building, Sacramento, California, and also at Room 1025 Associated Realty Building, Los Angeles, and at the principal California Cities Builders' Exchange Offices.

Plans, specifications, and proposal forms may be secured by licensed General Contractors who have qualified or who will qualify by furnishing a verified statement of experience and financial condition as required by the provisions of Chapter 644, Statutes 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Questionnaire forms may be secured from the Division of Architecture.

Bids will not be accepted from a Contractor to whom a proposal form has not been issued and all bids must be on proposal forms supplied by the State.

Requests for plans shall be accompanied by a deposit of twenty-five (\$25.00) dollars. Check shall be made payable to the Department of Public Works, Division of Architecture. Deposit will be returned upon receipt of the set in good condition at Sacramento Office of the Division within 30 days after opening bids, otherwise it will be forfeited to the State.

All bids must be filed at the office of the State Architect on or before the time heretofore stated and in accordance with the "Rules for Bidding" accompanying the proposal form.

No bid will be considered unless cash, a bidder's bond made payable to the State of California, or a certified check made payable to the

"State Engineer, Department of Public Works," in the sum of at least ten per centum (10%) of the amount of the bid is enclosed with the bid.

The Division of Architecture, State Department of Public Works, reserves the right to reject any or all bids and to waive any informality in any bid received.

STATE DEPARTMENT OF PUBLIC WORKS,

DIVISION OF ARCHITECTURE,

Geo. B. McDougall,
State Architect.

B. B. MEEK,
Director of Public Works

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received at the office of the State Highway Engineer, Public Works Building, Sacramento, California, until 2 o'clock P. M., on August 6, 1930, at which time they will be publicly opened and read, for construction in accordance with the specifications therefor, to which special reference is made, of portions of State Highway, as follows:

Los Angeles County, between Santa Clara River and Castaic School (VII-L-A-4-A), about four and three-tenths (4.3) miles in length, to be widened with bituminous treated rock borders.

San Diego County, between Balboa Avenue and Torrey Pines Road (VII-S-D-2-E), about five and four-tenths (5.4) miles in length, to be paved with Portland cement concrete.

San Bernardino County, three concrete bridges east of Ontario (VIII-SB-19-B), the first, at Station 43+01.85, consisting of three 8' 0" slab spans, the second at Station 107+93, consisting of two 14' 3" slab spans; and the third, at Station 119+04.7, consisting of 15' 0" slab span; to be partially reconstructed and widened and the approaches to be widened and paved with asphalt concrete.

Mono County, between Sonora Junction and 4 miles south of Coleville (IX-M-23-K), about twelve and nine-tenths (12.9) miles in length, to be graded.

Plans may be seen, and forms of proposal, bonds, contract and specifications may be obtained at the said office, and they may be secured at the offices of the District Engineers at Los Angeles and San Francisco, and at the office of the District Engineer of the district in which the work is situated. The District Engineer's offices are located at Eureka, Redding, Sacramento, San Francisco, San Luis Obispo, Fresno, Los Angeles, San Bernardino and Bishop.

A representative from the district office will be available to accompany prospective bidders for an inspection of the work herein contemplated, and Contractors are urged to investigate the location, character and quantity of work to be done, with a representative of the Division of Highways. It is requested that arrangements for joint field inspection be made as far in advance as possible. Detailed information concerning the proposed work may be obtained from the district office.

No bid will be received unless it is made on a blank form furnished by

(Continued on Page 32)

Contracts Awarded

Liens, Acceplances, Etc.

BUILDING PERMITS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
877	Allan	Horn	2500
878	Hardiman	Owner	8000
879	Goldstine	Cassidy	4000
880	Sowick	Owner	1000
881	Bank of Italy	Thollander	7000
882	Haslett	Westlund	3000
883	Holmgren	Owner	4000
884	Le Gette	Westlund	3500
885	Mager	Mager	4000
886	Page	Doelger	4000
887	Viavi	Barrett	50000
892	Janssen	Owner	8000
893	California	Cahill	15000
894	Weissgerber	Owner	1000
895	American	Phoenix	1000
896	Fernandez	McGarrie	1850
897	Cannery	Michael	5000
898	Keehley	Owner	2000
899	Lansin	Kambic	4400
900	Allison	Owner	7000
889	American	Herrman	1500
890	Sheffelt	Owner	1500
891	Rogers	Owner	4000
900	Gravlotte	Grazia	5000
901	Doelger	Owner	40000
902	Maverson	Owner	1000
903	Priori	Irwin	2000
904	Pussow	Owner	1000
905	Steinower	Owner	10000

ADDITION
(877) 72 McCONDRAY; addition of 2 flats.
Owner—Mrs. G. Allen, % Castle Bldg. Co., 830 Market St.
Plans by Castle Bldg. Co.
Contractor—H. Horn, 830 Market St.
\$2500

DWELLINGS
(878) W 18th AVE, 175 S Kirkham; two 1-story and basement frame dwellings.
Owner and Builder—M. D. Hardiman, 423 38th Ave.
Architect—None. each \$4000

DWELLING
(879) W WISCONSIN 300 S 20th St.; one-story and basement frame dwelling.
Owner—C. Goldstine, 1426 18th St.
Architect—None.
Contractor—R. F. Cassidy, 1419 18th Street.
\$4000

ALTERATIONS
(880) 1327 12th AVE.; remodel dwelling into two flats.
Owners—Mr. and Mrs. C. Sowick, 865 Fillmore St.
Architect—None. \$1000

STORES
(881) E DIVISADERO 35 S Hayes; 1-story frame stores.
Owner—Bank of Italy, Clay and Montgomery Sts.
Architect—H. A. Minton, Bank of Italy Building.
Contractor—Thollander Const. Co., 749 Bryant St.
\$7000

ALTERATIONS
(882) 3561 CLAY ST.; alterations to dwelling.
Owner—P. E. Haslett, 3561 Clay St.
Architect—Houghton, Sawyer & Co., 337 17th St., Oakland.
Contractor—F. J. Westlund, Builders' Exchange, Oakland.
\$3000

DWELLING
(883) N MADRID 100 W Italy; one-story and basement frame dwelling.
Owner—V. Holmgren, 55 Allison.
Architect—None. \$4000

DWELLING
(884) N BACON 100 W Holyoke; 1-story and basement frame dwelling.
Owner—J. B. Le Gette, 624 Hamilton.
Designer—E. J. O'Connor, 346 Woolsey.
Contractor—C. H. Westlund, 133 Harvard St.
\$3500

DWELLING
(885) W 17th AVE, 125 S Santiago; one-story and basement frame dwelling.
Owner—J. Mager, 1359 4th Ave.
Architect—None.
Contractor—Mager Bros., 1359 Fourth Avenue.
\$4000

DWELLING
(886) S 20th ST, 75 W Missouri; one-story and basement frame dwelling.
Owner—G. H. Page, 1531 20th St.
Architect—None.
Contractor—H. Doelger, 1391 8th Ave.
\$4000

LABORATORY
(887) N FELL ST, 100 E Van Ness; three-story concrete laboratory.
Owner—Viavi Co., Van Ness Ave. and Market St.
Architect—Willis Polk & Co., 277 Pine.
Contractor—Barrett & Hilp, 918 Harrison St.
\$50,000

FLATS
(888) E DIVISADERO 100 S Golden Gate Ave. Two-story and basement frame (2) flats.
Owner—R. Allison and J. N. Beck, 1312 Fulton St., San Francisco.
Architect—None. \$7000

ALTERATIONS
(889) SE THIRD and TOWNSEND Alter vault in bank.
Owner—American Trust Co., 464 California St., San Francisco.
Architect—None.
Contractor—A. H. Herrmann, 464 California St., S. F.
\$1500

DWELLING
(890) W MANCHESTER 100 N Ripley. One-story and basement frame dwelling (2) families.
Owner—Mr. Sheffelt, 1360 O'Farrell St., San Francisco.
Architect—None. \$1500

DELLING
(891) W TWENTY-EIGHTH AVE, 125 N Santiago. One-story and basement frame dwelling.
Owner—J. W. Rogers, 1635 21st Ave., San Francisco.
Architect—None. \$4000

FLATS
(892) E MALLORCA WAY 175 North Chestnut St.; two-story and basement frame (2) flats.
Owner—E. A. Janssen, Hearst Bldg.
Architect—None. \$8000

ADDITION
(893) S MARKET ST, 200 E 4th St.; three-story and basement concrete office addition.
Owner—California Mutual Building & Loan Assn., 206 Sansome St.
Architect—Pring & Lesswing, 605 Market Street.
Contractor—Cahill Bros., 206 Sansome Street.
\$15,000

DWELLING
(894) NW RUTLEDGE 40 W Francisco; one-story and basement frame dwelling.
Owner—Dr. F. Weissgerber, 220 Rutledge.
Plans by F. Struckmeyer, 2156B Market St.
\$1000

ALTERATIONS
(895) NW O'FARRELL St. and Grant Ave.; alter sidewalk lights.
Owner—American Trust Co., 464 California St.
Architect—None.
Contractor—Phoenix Simpton Co., 520 6th St.
\$1000

ALTERATIONS
(896) 310 RUTLEDGE ST.; alterations to dwelling; raise dwelling, etc.
Owner—I. Fernandez, 310 Rutledge St.
Architect—None.
Contractor—J. J. McGarrui, 4041 18th Street.
\$1850

DWELLING
(897) S 29th ST, 130 W Noe; two-story and basement frame dwelling.
Owner—P. T. Cannery, 565 29th St.
Architect—I. Michael, 762 De Haro St.
Contractor—Michael & Bomerer, 762 De Haro St.
\$5000

DWELLING
(898) S TEDDY 75 E Rutland; one-story and basement frame dwelling.
Owner—W. H. Keehley, 997 Cambridge
Architect—None. \$2000

DWELLING
(899) W KANSAS 75 N Mariposa; 1-story and basement frame dwelling.
Owner—J. Lansin, 476 Kansas St.
Architect—None.
Contractor—J. Kambic, 500 San Bruno.
\$4400

DWELLING
(900) S GREEN ST, 137 W Hyde; two-story and basement frame dwelling.
Owner—A. Cravlotte, 48 Russell St.
Architect—None.
Contractor—J. D. Grazia, 1141 Broadway.
\$5000

CAPITAL CITY TILE COMPANY

J. C. PALEN

Manager

914 Seventh Street
Sacramento - - - California

DWELLINGS
(901) W 31st AVE. 25 S Kirkham;
ten 1-story and basement frame
dwellings.
Owner and Builder—H. Doelger, 1391
8th Ave.
Architect—None. \$4000 each

REPAIRS
(902) 617 SEVENTH ST.; repair fire
damage.
Owner—S. Mayerson, 617 7th St.
Architect—None. \$1000

REPAIRS
(903) SE GRATAN & COLE STS.;
repair fire damage.
Owner—Mrs. A. Priori.
Architect—None.
Contractor—J. J. Irwin, 1040 Oak St.
\$2000

ALTERATIONS
(904) S EDDY ST. 80 W Fillmore;
alterations for balcony.
Owner—C. Fussow & Sons, 437 Eddy.
Architect—A. Johnson and W. Weth-
red, 16 Turk St. \$1000

DWELLINGS
(905) SE RETIRO 27 SW Fillmore;
two 2-story and basement frame
dwellings.
Owner and Builder—S. Steinower, 755
27th Ave.
Architect—Charles F. Strothoff, 2274
15th St. each \$5000

BUILDING CONTRACTS

San Francisco County

No.	Owner	Contractor	Am't.
145	Hinkelmann	Anderson	2435
146	Farrell	Wellington	700
147	Lent	Zinkand	29120
148	Gerson	Cohn	10500
149	Rulfs	Sartorio	24540
150	Leake	Fassio	7400

REMODELING
(145) 424 STANYAN ST.; remodel gar-
rage.
Owner—A. Hinkelmann, 424 Stanyan.
Architect—None.
Contractor—Chris Andersen, 369 Pine
Street.

Filed and Dated July 11, 1930.
Steel erected \$ 900
Completed and accepted 900
Usual 25 days 635
TOTAL COST, \$2435

ALTERATIONS
(146) S PAGE, NO. 1439 PAGE ST.
All work for alterations to two-
story frame building.
Owner—Chas. M. Farrell, Premises.
Architect—G. A. Berger, 209 Valencia
St., San Francisco.
Contractor—Cliff G. Wellington, 207
Guerrero St., San Francisco.
Filed July 12, '30. Dated ———.
Completed and accepted \$700
TOTAL COST, \$700
Bond, none. Limit, 20 days. Forfeit,
none. Plans and specifications filed.

DWELLING
(147) N PACIFIC AVE. 245 W Pierce
All work except shades, electric
fixtures and mantel for two-story,
basement and attic dwelling.
Owner—Bertha M. Lent.
Architect—E. J. Osborne, 593 Market
St., San Francisco.
Contractor—Ed. Zinkand & Son, 434
Tenth Ave., San Francisco.
Filed July 12, '30. Dated July 10, '30.
Frame up and roof on \$282
Brown coated 7282
Building completed 7282
Usual 35 days 7284
TOTAL COST, \$29,130
Bond, \$14,565. Sureties, F. Walcott
and W. J. White. Limit, 150 days.

Forfeit, none. Plans and specifications
filed.

ALTERATIONS

(148) NW CORNER BUSH AND
Polk Sts.; alterations to 5-story
and basement class C apts.
Owners—Rosa Gerson, E. Breyer, Lena
Cohenvech and P. Friedman.
Architect—S. Helman, 605 Market St.
Contractor—L. J. Cohn, 1 De Haro St.
Filed July 15, '30. Dated July 11, '30.
Work 50% completed \$2625
Work 75% completed 2625
Work completed 2625
Usual 35 days 2625
TOTAL COST, \$10,500
Bond, \$5250. Sureties American Bond-
ing Co. of Baltimore. Plans and Spec.
filed.

BUILDING

(149) W HYDE ST. 107-6 N Golden
Gate Ave. (Film Exchange Bldg.);
all work on 2-story class B build-
ing, including sewer, furring of
walls, whitewashing, improve col-
umns, concrete flooring, etc.
Owner—Theo. Rulfs, 2090 Pacific Ave.
Architect—A. H. Knoll, Hearst Bldg.
Contractor—P. Sartorio, 2440 Green-
wich St.

Filed and Dated July 16, 1930.
30 days after contract 75%
Every 15 days thereafter 75%
Usual 35 days 25%
TOTAL COST, \$24,540
Bond, \$24,540. Sureties, American
Bond Co. of Baltimore. Forfeit \$20.
Limit, Oct. 1, 1930. Plans and Spec.
filed.

BUILDING

(150) N O'FARRELL 82-6 W of NW
corner Hyde and O'Farrell Sts.;
all work on 1-story and basement
concrete building.
Owner—J. Leale.
Architect—None.
Contractor—V. Fassio, 2845 Van Ness
Avenue.
Filed July 16, '30. Dated July 11, '30.
Monthly installments of 75%
Usual 35 days 25%
TOTAL COST, \$7400
Bond, \$7400. Sureties, Fidelity and
Deposit Co. of Md. Forfeit, optional.
Limit, 45 days. Plans and Spec. filed.

COMPLETION NOTICES

San Francisco County

Recorded	Accepted
July 11, 1930—N PALOU AVE 150	
E Mendell 25x100. John Honey-	
man to Philipp Fetz. July 10, 1930	
July 11, 1930—SW COR SAN BRUNO	
Ave and Olmsted St. 25x60. P	
Spillara to C Carraro. July 11, 1930	
July 11, 1930—E ATHENS ST 50 N	
Italy 25x100. Aldo Argenti to	
whom it may concern. July 5, 1930	
July 11, 1930—LOTS 30, 31, and 32	
Blk 143, Brown Est Co, Sub Ptn	
University Hd. Estella Booker to	
L Booker. July 10, 1930	
July 11, 1930—SW LAKEVIEW AVE	
25 NW Margaret Ave NW 25 x SW	
75. J E Colline to whom it may	
concern. July 8, 1930	
July 11, 1930—W SOMERSET ST, 25	
N Silliman St. G Carraro to whom	
it may concern. July 11, 1930	
July 11, 1930—38, 40, 42 PERRY ST.	
P A Delligannis to J D Woodside	
July 11, 1930—E 15th AVE 138-4 N	
Taraval St N 33-4 x E 127-6. A	
McIntyre to whom it may con-	
cern. July ———, 1930	
July 11, 1930—LOT 4 BLK 2959 Sub	
No 4 Miraloma Park. The Mc-	
Carthy Co to Meyer Bros. ———, 1930	
July 10, 1930—E SEVILLE and Cor-	
dova Blk 26 Croker Amazon Tract.	
Wm E and Johanna G Grosman to	
whom it may concern. ———, 1930	
July 10, 1930—N FRANCISCO 118-9	

E Baker E 25 x 137-6. Frank An-
tonelli to whom it may concern. —
July 11, 1930
July 10, 1930—LOCATION OMIT-
TED. E R Spinden to American
Woodworking Corp. June 15, 1930
July 10, 1930—E 22nd AVE 250 N
Lake St N 87 x E 120. W Meyer
to H H Larsen Co (two comple-
tions. July 10, 1930
July 10, 1930—W FUNSTON AVE
100 N Taraval St. J J Guhen to
whom it may concern. July 10, 1930
July 10, 1930—S ROSEVELT WAY
160 W Levant St. C G Jordan to
Sorensen & Haggmark. July 2, 1930
July 10, 1930—E SHOTWELL 245 N
25th N 75 x E 122-6 MB 172. Mar-
shall T Struthers to Gerald J Con-
way. July 9, 1930
July 9, 1930—E MALBORO WAY
214-916 S Beach S 95 N 51 deg 31
min E 93-673 N 29 deg 08 min 14
sec W 20 S 60 deg 53 min 27 sec W
85-624. Emma McCabe to whom it
may concern. July 8, 1930
July 9, 1930—W STEINER ST 92-8-4
N Jackson N 35 x W 75. M G and
K A Zellinsky to G and K Petter-
son. July 8, 1930
July 15, 1930—LOTS 15 and 16 Blk
3264 map Blks 3260 to 3269, Balboa
Terrace Addn. A J and Mary A
Herzig to whom it may concern. —
July 15, 1930
July 15, 1930—W POTRERO AVE
225 N 19th 50x100, known as 636
Potrero Ave. Victor F Hoelscher
and Daniel Rosenblum to Henry
Papenhause. July ———, 1930
July 15, 1930—S F BAY between
San Francisco and Alameda coun-
ties (making test borings). Dept
of Public Works to The Duncan-
son-Harrison Co. July 9, 1930
July 15, 1930—NW MORSE 205 NE
Newton NE 24-54 N 18 deg 20 min
30 sec W 60-500 m or 1 N 60 deg
38 min W 27 m or 1 S 18 deg 30
min 30 sec E 87-78 Blk 12 map
Crocker Amazon Tract. John Dall
to whom it may concern. ———, 1930
July 15, 1930—N SACRAMENTO 60
E Sacramento E 40-60 W 20 N
59-6 to S Commercial W 20 S 19-6.
Grace B Cuyler to C Dudley De
Velbiss. July 14, 1930
July 14, 1930—NW BAYSHORE
Blvd and Courtland Avenue W 75
x N 100. General Petroleum Corp
of California to Melrose Steel Co. —
July 8, 1930
July 14, 1930—W 18th AVE 125 S
Kirkham S 25 x W 120. W 18th
Ave 100 S Kirkham S 25 x W 120.
Michael D and Mary A Hardman
to whom it may concern. ———, 1930

LIENS FILED

San Francisco County

Recorded	Amount
July 10, 1930—COMG 58 N BROAD-	
WAY on line parl with Kearny	
137-6 E Kearny E 23 x N 79-6. P	
Sartorio vs P Gogna. ———, 1910.44	
July 8, 1930—W 12th AVE 105 N	
Geary N 25 x W 120. Inland Floor	
Co vs J Barman, J and E Caro. ———, 3331	
July 14, 1930—FMYLY PTN 50 Vara	
Blk 39 Lots 4, 5, 6, 7 and 8 Blk 267	
of Assessor's Block Book, NW	
Battery and Bush Sts. Blue Dia-	
mond Co, 1650 S Alameda St. Los	
Angeles vs Shell Oil Co and J	
Walker, and A W Knowles. ———, 2,546.24	
July 12, 1930—NE POLK and TURK	
N 85 x E 85. Spencer Elevator Co	
vs V E, V I and V C Haley and	
Haley Brothers. ———, \$1895	
July 11, 1930—NE POLK and Turk	
Sts N 85 x E 85. C Berg vs Haley	
Bros, V C V E and V C Haley. ———, \$3520	
July 11, 1930—NE TURK and Polk	
N 85 E 85 S 85 W to beg. V Fas-	
sio as Mission Concrete Co vs Vir-	
gil E and V C Haley as Haley Bros	
———, \$1000	

July 11, 1936—SW CHESTNUT and Larkin S 92-6 x W 137-6. L. S. and S. W. Morgan, Inc vs W R Morgan, S W Straus & Co, L L Bandy as The Lowell Co.....\$562.02
 July 10, 1936—S OFARRELL 72-6 W Leavenworth W 133-9 x S 137-6. Caldwell Paint Co vs B Kaplan, Joseph and Helen Greenbach.....\$1556.27

RELEASE OF LIENS

San Francisco County

Recorded	Amount
July 10, 1936—16th AVE and Clement St. Wm Fitzgerald, J Sullivan, M Sala and G Bedbury to J R Johnson, A G Isaacs and R A Roche.....	\$693
July 10, 1936—N PINE ST 31-3 E Lyon E 25 x N 80 WA 581. E. Jensen to Thomas and Anna C O'Donnell.....	\$112
July 8, 1936—W TWENTY-FIRST AVE 260 N Ortega N 25xV 120. Wm Quick to S B Goss and Thos Hughes.....	\$150
July 14, 1936—W 35th AVE 225 S Rivera S 25 x W 120. Christensen-Carson Co to Maria M Evans.....	\$225.50
July 15, 1936—S JACKSON 91 E Lyon E 115-6 S 127-8 1/2. Fred D Wilson Co to Miss Burke's School.....	

BUILDING PERMITS

Alameda County

812 Scott	Cartwright	10000
870 Broadie	Button	1150
871 Farmer	Went	2850
872 Jones	Jensen	15000
873 Scammell	Owner	9800
874 Arthur	Owner	4800
875 Japanese	Owner	5000
876 Monez	Owner	3000
877 Salinger	Rubenstein	1000
878 Tiedman	Asumaa	4800
879 Borello	Garetto	3400
880 Marcey	Peel	3000
881 Tessore	Owner	3750
882 Vincent	Peppin	2950
883 Alameda	Duncanson	40526
884 Associated	Villadsen	1550
885 Ward	Owner	1000
886 Galino	Martin	
887 Mitchell	Brennan	17852
888 Martin	Wildy	4000
889 Borel	Owner	2000
890 Schuler	Schuler	104715
891 Dashiell	Owner	6000
892 Lyon	Owner	2900
893 Nevils	Durgin	2750
894 Sifford	Olsen	12000
895 Berkeley	McCullough	7500
896 Same	Same	8000
897 Mercer	Nylander	4000
898 Sheppard	Barhan	9000
899 Anderson	Dyer	3000
900 Forner	Owner	15500
901 Reardon	McWathy	14000
902 Smart	Anderson	1600
903 Waugh	Owner	1500

ALTERATIONS

(870) 2416 ASHBY AVE., **BERKELEY**; alterations.
 Owner—J. C. Broadie, 3001 Telegraph Ave., Berkeley.
 Architect—None.
 Contractor—J. W. Butten, 347 63rd St., Oakland. \$1150

ALTERATIONS

(871) 203 HILLCREST RD., **BERKELEY**; alterations.
 Owner—Milton Farmer.
 Architect—None.
 Contractor—C. H. Went, 2116 Allston Way, Berkeley. \$2850

RESIDENCE

(872) 254 SHERIDAN AVE., **PIEDMONT**; two-story 8-room frame residence and garage.
 Owners—Mr. and Mrs. B. R. Jones, 3865 Lakeshore Ave., Oakland.

Architect—Miller and Warnecke, Financial Center Bldg., Oakland.
 Contractor—Jensen & Pedersen, 3113 Adeline St., Oakland. \$15,000

RESIDENCE

(873) 17 RICHARDSON WAY, **PIEDMONT**; two-story 7-room frame residence and garage.
 Owner and Builder—J. W. Scammell, 924 Scenic Ave., Piedmont.
 Plans by Owner. \$9800

DWELLING

(874) E ALCALA 170 E Oak Knoll Blvd., **OAKLAND**; one-story six-room dwelling.
 Owner—Wm. Arthur, Alcala Avenue, Oakland.
 Architect—W. W. Dixon, 1844 Fifth Ave., Oakland. \$4800

ALTERATIONS & ADDITIONS

(875) NE COR. SIXTH and Jackson St., **OAKLAND**; alterations and additions.
 Owner and Builder—Japanese-American Society, 1085 7th St., Oakland.
 Architect—R. C. Schuppert, 4737 Park Blvd., Oakland. \$5000

DWELLING

(876) 1862 CLEMENS ROAD, **OAKLAND**; one-story 5-room dwelling.
 Owner and Builder—A. H. Monez, 4350 Bridgeview Drive, Oakland.
 Architect—None. \$3000

ALTERATIONS

(877) SW COR. 12th and Broadway, **OAKLAND**; alterations.
 Owner—A. M. Salinger, Steward Bldg., Oakland.
 Architect—None.
 Contractor—K. Rubenstein, 668 6th St., Oakland. \$1000

DWELLING

(878) S 61st ST. 125 W Dover Street, **OAKLAND**; 1-story 5-room dwelling.
 Owner—Carl Tiedman, 6512 Whitney St., Oakland.
 Architect—None.
 Contractor—L. Asumaa, 6515 Whitney St., Oakland. \$4800

RESIDENCE

(879) 2111 TELEGRAPH AVENUE, **BERKELEY**; one-story 4-room 1-family frame residence.
 Owner—G. Borello, 3109 Telegraph Avenue, Berkeley.
 Architect—None.
 Contractor—C. Garetto, 2221 8th St., Berkeley. \$3400

RESIDENCE

(880) 1570 LE ROY AVE., **BERKELEY**; one-story 4-room 1-family frame residence.
 Owner—Miss Marcey, 10 Oak Vale Ave., Berkeley.
 Architect—W. Thorpe.
 Contractor—M. A. Peel, 10 Oak Vale Ave., Berkeley. \$3000

DWELLING

(881) SW COR. E TENTH ST. and 51st Ave., **OAKLAND**; two-story 8-room 2-family dwelling.
 Owner and Builder—Genovaffa Tesoro, 5010 E 10th St., Oakland.
 Architect—None. \$3750

DWELLING

(882) 7212 ORRAL ST., **OAKLAND**; one-story 5-room dwelling and 1-story garage.
 Owner—George Vincent.
 Architect—None.
 Contractor—Peppin and Johnson, 2185 50th Ave., Oakland. \$2950

PIERS, ETC.

(883) ALAMEDA Airport; **ALAMEDA**; piers and bulkhead for yacht harbor; piles and heavy planking.
 Owner—Alameda Airport, Inc., Alameda.

Architect—None.
 Contractor—Duncanson and Harrelson, San Francisco. \$40,526

CONCRETE FLOOR

(884) 2395 WEBSTER ST., **ALAMEDA**; concrete floor with 6-in. wire mesh.
 Owner—Associated Oil Co. of California, 2395 Webster St., Alameda.
 Architect—None.
 Contractor—Villadsen Bros., Inc., 417 Market St., San Francisco. \$1950

ALTERATIONS

(885) 2133 CENTRAL AVE., **ALAMEDA**; frame alterations.
 Owner and Builder—M. J. Ward, 2149 Central Ave., Alameda.
 Architect—None. \$1000

DWELLING

(886) N SAN LEANDRO Creek, 1500 E 105th Ave., **OAKLAND**; 1-story 6-room dwelling.
 Owner—L. Galino, 105th Ave., Box 329, Oakland.
 Architect—None.
 Contractor—L. R. Martin, 219 Arroyo Ave., San Leandro.

DWELLING

(887) SE COR. COUNTRY Club Dr. and Lincolnshire Dr., **OAKLAND**; two-story 10-room dwelling.
 Owner—Dr. W. E. Mitchell, Whitecot-ten Bldg., Berkeley.
 Architect—Meten and Hurd, 1006 Shreve Bldg., San Francisco.
 Contractor—J. P. Brennan, 2320 Regent St., Berkeley. \$17,852

DWELLING

(888) N 44th ST. 290 E Market St., **OAKLAND**; one-story six-room dwelling.
 Owner—F. Martin, 599 43rd St., Oakland.
 Architect—None.
 Contractor—G. J. Wildy, 1628 Oregon St., Berkeley. \$4000

GARAGE

(889) NE COR. SAN PABLO AVE. and Alcatraz, **OAKLAND**; one-story brick and concrete garage.
 Owner and Builder—J. A. Borel, 1094 Alcatraz Ave., Oakland.
 Architect—None. \$2000

WHARF

(890) FOOT OF 14th STREET, **OAKLAND**; concrete wharf.
 Owner—City of Oakland, Oakland Bk. Bldg.
 Plans by Port of Oakland Commission.
 Contractor—Schuler and MacDonald, 1723 Webster St., Oakland. \$104,715

DWELLING

(891) 3549 CALAFIA AVE., **OAKLAND**; one-story 6-room dwelling.
 Owner and Builder—E. L. Dashiell, 1666 67th Ave., Oakland.
 Architect—None. \$6000

DWELLING

(892) 3426 GUIDO ST., **OAKLAND**; 1-story 4-room dwelling and 1-story garage.
 Owner—Chas. D. Lyon, 6501 Buena Ventura Ave., Oakland.
 Architect—None. \$2900

DWELLING

(893) W 77th AVE. 150 N Garfield; **OAKLAND**; one-story five-room dwelling.
 Owner—John Nevils, 3922 La Cresta Ave., Oakland.
 Architect—None.
 Contractor—F. W. Durgin, 3922 La Cresta Ave., Oakland. \$2750

DWELLING

(894) N BEECHWOOD DRIVE 650 E Country Club Drive, **OAKLAND**; two-story 9-room dwelling.

Owner—B. Sifford, 5388 Golden Gate Ave., Oakland.
 Architect—H. Stoner, San Mateo.
 Contractor—J. M. Olsen, 974 Park St., Alameda. \$12,000

TEMPORARY SCHOOL
 (895) 1935 BANCROFT WAY, BERK.
ELEY; one-story 6-room temporary frame and stucco school.
 Owner—City of Berkeley.
 Architect—Hardman & Russ, First National Bank Bldg., Oakland.
 Contractor—Chas. W. McCullough, 1st National Bank Bldg., Oakland. \$7500

TEMPORARY SCHOOL
 (896) 1915 BANCROFT WAY, BERK.
ELEY; one-story 5-room temporary frame and stucco school.
 Architect—Hardman & Russ, First National Bank Bldg., Oakland.
 Contractor—Chas. W. McCullough, 1st National Bank Bldg., Oakland. \$8000

DWELLING
 (897) 935 OAKS BLVD., SAN LEAN-
DRO; five-room frame and stucco dwelling.
 Owner—Mrs. Merser.
 Plans by F. T. Wood Co., 633 Montclair Ave., San Leandro.
 Contractor—Nylander Bros., 1610 Excelsior Ave., Oakland. \$4000

RESIDENCE
 (898) 611 GRIZZLY PEAK, BERKE-
LEY; two-story 9-room frame and stucco residence.
 Owner—Clyde C. Sheppard, 1005 Sierra Ave., Berkeley.
 Architect—A. W. Smith, American Bank Bldg., Oakland.
 Contractor—Barhan Company, American Bank Bldg., Oakland. \$9000

SERVICE STATION
 (899) SE CORNER MONTANA AND Fruitvale Ave., OAKLAND; one-story brick service station.
 Owner—J. E. Anderson, SW corner Flagg and Montana Sts., Oakland
 Architect—None.
 Contractor—Dyer Const. Co., 701 Ray Bldg., Oakland. \$3000

DWELLING
 (900) E BURR ST. 421 S Stearns, OAKLAND; two-story six-room dwelling and 1-story garage.
 Owner and Builder—Mrs. A. M. Forner, 9618 Burr St., Oakland.
 Plans by Geo. G. Shimamoto, 1551 Laguna St., San Francisco. \$15,500

ALTERATIONS
 (901) NE COR. TELEGRAPH Ave., Hawthorne, OAKLAND; alterations.
 Owner—Mary Dowd Reardon Studio.
 Architect—None.
 Contractor—L. R. McWethy, 337 17th St., Oakland. \$1000

ADDITION
 (902) 515 ZORAH ST., OAKLAND; addition and 1-story garage.
 Owner—David Smart, 515 Zorah St., Oakland.
 Architect—None.
 Contractor—C. M. Anderson, 1853 9th Ave., Oakland. \$1600

STORE
 (903) 6137 BROADWAY, OAKLAND; one-story tile store.
 Owner and Builder—M. L. Vaughn, 619 El Dorado Ave., Oakland.
 Architect—None. \$1500

BUILDING CONTRACTS

Alameda County

No.	Owner	Contractor	Am't.
125	IOOF	Persson	6432
126	Alpha	Moore	13550
127	Anderson	Dyer	4263

HALL
 (125) LOTS 11 and 12 BLK 57, Niles; general construction on hall bldg.
 Owner—Niles IOOF Hall Assn., Niles.
 Architect—Geo. E. Ellinger, 1723 Webster St., Oakland.
 Contractor—Emil Persson, 829 San Luis St., Berkeley.
 Filed July 10, '30. Dated June 18, '30.
 3rd of each month.....75%
 Usual 35 days.....Balance
TOTAL COST, \$6432
 Limit, without delay.

CONSTRUCTION WORK
 (126) LOTS 26 & 27, Benton Pty., Berkeley; construction work for 3-story frame alteration and addition to Theta Epsilon Sorority House.
 Owner—Alpha Chapter of Theta Epsilon, 2327 Warren St., Berkeley.
 Architect—F. W. Dakin, 625 Market St., San Francisco.
 Contractor—Geo. R. Moore, 7800 Weld St., Oakland.
 Filed July 14, '30. Dated July 3, '30.
 Frame ready for roofing.....\$2300
 Interior wall & ceilings coated.....2650
 When painting is started.....2550
 Completed and accepted.....2638
 Usual 35 days.....3412
TOTAL COST, \$13,650
 Bond, \$6825. Sureties, American Surety Co. of New York. Forfeit, not to exceed \$20 per day. Limit 60 days.
 Plans and Spec. filed.

SERVICE STATION
 (127) SE MONTANA AND FRUIT-
 vale Ave., Oakland. All work for service station.
 Owner—J. E. Anderson, 3321 Flagg Ave., Oakland.
 Architect—None.
 Contractor—The Dyer Const. Co., 1924 Broadway, Oakland.
 Filed July 15, '30. Dated June 30, '30.
 On completion.....75%
 30 days after.....Balance
TOTAL COST, \$4263
 Bond, none. Limit, 30 days after grant of permit. Forfeit, plans and specifications, none.

OAKLAND BUILDING SUMMARY

A. S. Holmes, city building inspector of Oakland, reports the issuance of 306 building permits during the month of June, 1930, for improvements valued at \$883,199. Polishing is a complete segregation of the June activities:

Class. of Bldgs.	No.	P'mts	Cost
1-story dwellings	28		\$ 92,150
1-story 4-fam. dwell.	1		5,000
2-story dwellings	8		45,450
2-story dwell. & store	1		6,000
3-story apartments	2		75,000
1-story store	1		250
1-story pump house	1		450
1-story caddy house	1		250
3-story school bldg.	1		18,000
1-story tile ser. sta.	1		2,500
1-story tile shop	1		2,200
1-story tile garage	1		600
2-story tile & conc. of			
ice and store	1		30,000
1-story brick store	1		8,000
1-story brick warehouse	1		15,000
1-story brick garage	1		9,500
Brick addition	1		500
1-story brick & concrete			
dyeing plant	1		16,000
" warehouse	1		28,000
" store	1		9,000
" cleaning bldg.	1		11,000
2-story brick and conc.			
store & ballroom	1		90,000

1-story br. & tile whse.	1	4,000
4-story conc. & steel store	1	300,000
1-story steel ser. sta.	1	800
" comfort sta.	3	1,425
Steel canopy	2	1,450
Billboards	10	1,050
Electric signs	37	10,695
Roof sign	1	125
Marquees	1	2,900
Street clock	1	600
1-story garages & sheds	52	11,760
Additions	43	30,128
Alters. and repairs	96	52,916
Total	306	\$883,199

COMPLETION NOTICES

Alameda County

Recorded	Accepted
July 9, 1930—221 WAYNE AVE, Oakland. Florence M Sylvester to Joseph Coward.....	July 9, 1930
July 9, 1930—PTN LOT 106, Broadmoor Park, San Leandro. Mamie Candiotto to whom it may concern.....	June 28, 1930
July 9, 1930—9861 TOLER AVENUE, Oakland. F Chapman to whom it may concern.....	July 9, 1930
July 9, 1930—LOTS 30, 11, 12, 13, 14, 15 and ptn lot 16, map Berson ppty Berkeley. International House (a corp.) to Dwan & Co.....	July 1, 1930
July 9, 1930—3338 and 3350 64th AVE Oakland. Fred T Dooley to whom it may concern (two completions).....	July 8, 1930
July 12, 1930—544 THE ALAMEDA, Berkeley. Harry Frank Humphrey to Blitrite Const Co.....	July 10, 1930
July 12, 1930—1480 TREESTLE Glen Road, Oakland. Eva H Stuck to W E Whalin.....	July 9, 1930
July 12, 1930—918 CORNELL AVE, Albany. Mercedes Bruna to J E Miller.....	July 7, 1930
July 12, 1930—1321 E 24th St, Oakland. Arthur and Estella Underhill to James D Johnstone.....	July 2, 1930
July 12, 1930—OXFORD and Addison Sts, Berkeley. The Regents of the University of California to Conner and Conner.....	July 2, 1930
July 11, 1930—CAMPUS of the University of California, Berkeley. The Regents of the University of California to J A Mohr & Son.....	July 2, 1930
July 11, 1930—1870 THOUSAND Oaks Blvd, Berkeley. A B Hughes to whom it may concern.....	July 3, 1930
July 11, 1930—MENLO PLACE bet. houses Nos 39 and 51, Berkeley. Frederick R and Adah R Koide to A Cederborg.....	July 3, 1930
July 11, 1930—LOT 20, Cherry Manor Tract, San Leandro. A F Hanson and L M Mumford to whom it may concern.....	July 8, 1930
July 11, 1930—LOT 24 and Ptn Lot 23, Electric Loop Tract, Oakland. Max E Manig to whom it may concern.....	July 10, 1930
July 11, 1930—SW CLAY and Mound Sts, Alameda. Sidney J Dowling to whom it may concern.....	July 10, 1930
July 10, 1930—MASONIC HOME nr. Decoto, Alameda County. Masonic Homes of California to California Electric Co; Fearey & Moll; K E Parker Co; W P Fuller & Co.....	July 1, 1930
July 10, 1930—2420 BROWNING ST, Berkeley. Mary B and John Cotta to E M Williamson.....	July 10, 1930
July 10, 1930—1629 14th St, Oakland. J M Acty to P Debutchi & Sons.....	July 10, 1930
July 10, 1930—890 COLLIER Drive, San Leandro. O A Valla to M H Loblaw.....	July 8, 1930
July 10, 1930—E PTN LOT 4, Roble Court, Berkeley. W H Sellander to C O Bradhoff.....	July 1, 1930
July 15, 1930—LOTS 39 and 40 Blk	

2021, map No 2 Whitcher Tract, Oakland. Eugene English to A W Schneck.....	July 15, 1930
July 15, 1930—SAN FRANCISCO Bay (test borings). Dept of Public Works, State of California, to Duncanson-Harrelson Co.....	July 9, 1930
July 15, 1930—LOT 2 BLK 27, Map town of Newark. H J and Anna May Bolvard to Geo H Kouns.....	July 12, 1930
July 15, 1930—LOT 3 BLK 27, map town of Newark. S P Guerrero to Gue Kouns.....	July 1, 1930
July 15, 1930—2112 48th AVE, Oakland. Alice S Staehle to F C Duerr.....	July 15, 1930
July 15, 1930—1480 171st AVE, San Leandro. J P Clark to Lund & Lund.....	July 1, 1930
July 15, 1930—ADJ TO PLANT NO 27 north side Thornton St near Alvarado St, San Leandro. California Packing Corp to Charles D Vezey & Sons.....	July 14, 1930
July 15, 1930—SW COR SAUNDERS and Martinez Sts, San Leandro. California Packing Corp to Chas D Vezey & Sons (2 completions).....	July 11, 1930

LIENS FILED

ALAMEDA COUNTY

Recorded	Amount
July 8, 1930—PTN OF LAND CONVEYED by Realty Syndicate Co to Werner Fletcher Hoyt Feb 28, 1921 and recorded in Vol 3053 Official Records page 272, Piedmont. M S Sommers vs Perle D Froelich, H E Williams.....	\$358
July 8, 1930—PTN OF LAND CONVEYED by Realty Syndicate Co to Werner Fletcher Hoyt Feb 28, 1921 and recorded in Vol 3053 Official Records page 272, Piedmont. Fred Schmits vs Perle Dayton Froelich, David Froelich, Hugh E Williams.....	\$106
July 8, 1930—LOTS 50 and 51 BLK B, Fruitvale Villa Tract, Oakland. W P Garrett as Garrett Mill and Lumber Co vs Louis and Mary Barone, B C Goodwin.....	\$116.70
July 10, 1930—PTN LOT 15 BLK 9, Northbrae, Berkeley. Chicago Lbr Co of Washington vs D D and Patricia Mae Edmonds, Millar White.....	\$183.56
July 10, 1930—W MCGEE AVE 100 ft N of Addison St, Berkeley. Chicago Lumber Co of Washington vs Beulah and F H Felt.....	\$176.11
July 15, 1930—LOT 16 BLK 2, Case Tract, Berkeley. Makin, Oats and Kennedy, Inc vs L Lipscomb and E W Wilson.....	\$78.50
July 14, 1930—LOT 83 BLK 7, Key Route Terrace No 3, Berkeley. E K Wood Lbr Co vs H C & Gladys L Smith.....	\$193.98
July 14, 1930—LOT 16 BLK 2, The Case Tract, Berkeley. E K Wood Lbr Co vs Lipscomb E and Beatrice M Worth, E W Wilson.....	\$252.98
July 12, 1930—N PTN LOTS 96 and 97, St James Wood, Piedmont. Oakland Planing Mill Inc vs Perle D Froelich and Hugh E Williams.....	\$410.10
July 12, 1930—LOT 14 BLK 20, Melrose Heights, Oakland. Berkeley Bldg Materials Co vs C R House.....	\$956.23
July 11, 1930—PTN LOT 15 BLK 9, Northbrae, Berkeley. E K Woods Lumber Co vs Patricia Mae and E T Edmonds, Millar White.....	\$118.72
July 11, 1930—LOT 13 PTN LOT 14 Peralta Tract, Oakland. Old Mission Paint Co vs Emil and Lima Phlemann and E W Beyerle.....	\$91.45
July 11, 1930—SW FOREST AVE & Piedmont Ave, Berkeley. Old Mission Paint Co vs Clyde and Agnes Way and E W Beyerle.....	\$77.77
July 11, 1930—PTN LOTS 19 and 21, Puttle Homestead Tract, Oakland.	

Old Mission Paint Co vs Jerome J Friedberg and E W Beyerle.....\$270.61

RELEASE OF LIENS

ALAMEDA COUNTY

Recorded	Amount
July 9, 1930—266 LENOX AVE, Oakland. Melrose Bldg Materials Co, \$3,169.25; Robert Streiff, \$655.96; Willis C Lowe, \$6,900; Superior Tile & Products Co, \$2,664; Spencer Elevator Co, \$3,025; Concealo Fixture Co, Inc, \$2,000; A M Poulsen, \$3,024.13; T P Hogan Co, \$14,350; Pacific Coast Aggregates, Inc \$7,424.66 to Emily and Albert Kroll	
July 10, 1930—LOTS 7, 8, 9 and ptn Lots 10 and 11 Blk 2, La Loma Pk Park and Wheeler Tract, Berkeley. Walsworth California Co to Geo D Blood, Geo M Frisbie, Mintie E Frisbie, Nottingham Heating and Ventilating Co.....	\$226.36
July 10, 1930—LOTS 7, 8, 9 and ptn Lots 10 and 11 Block 2, La Loma Park and Wheeler Tract, Berkeley. J P Moeller as East Bay Sheet Metal Works, \$227.75; Plant Rubber & Asbestos Works, \$198; Crane Co, \$34.25; Boiler Tank & Pipe Co, \$34, to George D Blood.....	

BUILDING PERMITS

SAN MATEO

APARTMENTS. two-story, \$18,000; Lot 9 Blk 4, No. 219 Ninth Ave., San Mateo; owner and contractor, F. S. French, 17 Alviso St., San Francisco.
ALTERATIONS, \$4000; No. 114 Clark Drive, E 12 ft. Lot 61, San Mateo; owner, F. J. Barrett, Premises; contractor, Barrett & Hilp, 918 Harrison St., San Francisco.

BUILDING CONTRACTS

SAN MATEO COUNTY

GRADING	
HOWE ST., Burlingame. All work for grading industrial track at Howe St.	
Owner—Southern Pacific Co, 65 Market St., San Francisco.	
Architect—None.	
Contractor—H. E. Casey et al, 307 B St., Burlingame.	
Filed —, Dated June 23, '30.	
As work progresses.....	75%
Usual 35 days.....	25%
TOTAL COST, \$.....	
Bond, \$1564. Surety, United States Guarantee Co. Limit, 60 calendar days. Forfeit, none. Plans and specifications filed.	

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded	Accepted
July 5, 1930—PART LOT 14 BLK 9, Menlo Oaks. Homer R Copeland to whom it may concern.....	July 3, 1930

July 7, 1930—LOT 10 BLK 7, Woodside Glens. John F Quinn to E P Hoxsee.....	July 1, 1930
July 7, 1930—LOT 8 BLK 1, Jefferson Park. Castle Bldg Co to Henry Horn.....	June 18, 1930
July 5, 1930—PART LOTS 8 and 9 Blk 17, Lomita Park. A C Brandt to whom it may concern.....	
July 3, 1930—LOT 4 of LOT 26, San Mateo Park. A Ernest Johnson to whom it may concern.....	July 2, 1930
July 5, 1930—LOT 21 BLK 7, Woodside Glens. W J Sweeney et al to Ernest Hoxsee.....	July 3, 1930
July 3, 1930—LOT C of Lot 112, San Mateo City Homestead. Hugo Huetberg to whom it may concern.....	July 3, 1930
July 8, 1930—LOT 14 BLOCK 23, Crocker Tract. Peter J Kelly to whom it may concern.....	June 15, 1930
July 8, 1930—E LINE MISSION ST., Daly City. H H Smith et al to whom it may concern.....	July 9, 1930
July 8, 1930—PART LOT 9, East Greenwood Tract. Mrs Eugenia Ruellan to B Duncan.....	July 3, 1930
July 9, 1930—LOT 16 Part Lots 14 and 15, Hillsborough Knowlens. Albert M Schulte et al to Self.....	July 7, 1930
July 9, 1930—LOT 20 BLK 24, Mirbrae Highlands. Victor E Chaux to whom it may concern.....	July 8, 1930
July 10, 1930—LOT 3 BLK H, Hayward Park. P G Magnuson to whom it may concern.....	July 9, 1930
July 10, 1930—LOT 7 BLK 8, Oakknoll Manor. G W Knapp to whom it may concern.....	July 11, 1930
July 10, 1930—LOT 3 PART LOT 2 Blk 98, South San Francisco. Antonia Souza to J F Thorne.....	July 9, 1930
July 10, 1930—LOT 32 Blk 4, Ravenswood Villas. Clifton H Woodhams et al to A C Held.....	July 10, 1930
July 7, 1930—LOT 59 BLK 2, Jefferson Park. Castle Bldg Co to Henry Horn.....	June 18, 1930
July 3, 1930—LOT 1 BLK 16, Woodland. Hans Larsen to A C Held.....	June 4, 1930
July 11, 1930—ROUTE 55-68 SEC A, B and C. State Highway Commission to San Bruno Feed & Fuel Company.....	July 7, 1930
July 11, 1930—ROUTE 55 SEC A, C and D. State Highway Commission to Carl Lewis.....	July 7, 1930
July 11, 1930—ROUTE 55 SEC A, B, C and D. State Highway Commission to Western Crane Service Corp.....	July 7, 1930
July 11, 1930—LOT 13 BLK 12, Woodside Glens. S Nysted to whom it may concern.....	July 11, 1930
July 11, 1930—LOT 28 BLK 21, Belmont. Davenport Realty Co to whom it may concern.....	July 7, 1930

LIENS FILED

SAN MATEO COUNTY

Recorded	Amount
July 5, 1930—LOT 1 and Part Lot 2 James St Addn. Martin Peterson vs Lola Brown.....	\$2611
July 7, 1930—LOT 1 BLK 33, Belmont. Fulton S Woodridge vs Davenport Realty Co.....	\$390

Member Insurance Brokers' Exchange

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INSURANCE
490 GEARY STREET

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San Francisco

July 7, 1930—FAIR OAKS. Progress Lumber Co., \$1153.75; Merneer Lumber Co., \$107.82; Michel and Pfeiffer Iron Works, \$190.50, vs Jas W Slemmons, et al.....

BUILDING CONTRACTS

SANTA CLARA COUNTY

SCHOOL BLDG., except heating. TULLY ROAD near San Jose (Franklin Grammar School property); general construction on grammar school building, except heating system.

Owner—Franklin School District of Santa Clara County.

Architect—W. H. Weeks, Bank of Italy Bldg., San Jose.

Contractor—Paul N. Anderson, 1210 Lincoln St., San Jose.

Filed July 8, '30. Dated July 2, '30.

Progress payments of.....75%

Usual 35 days.....25%

TOTAL COST, \$36,141
Bond filed. Sureties, Pacific Indemnity Co. Forfeit, \$18,070.50 each. Limit, 100 working days from date. Plans and Spec. filed.

HEATING system for above.

Contractor—Wm. F. Serpa, 497 N 13th St., San Jose.

Filed July 8, '30. Dated July 2, '30.

Progress payments of.....75%

Usual 35 days.....25%

TOTAL COST, \$3,875
Bonds filed. Sureties, Pacific Indemnity Co. Forfeit, \$1937.50 each. Limit, 100 days from date. Plans and Spec. filed.

BUNGALOW & GARAGE

LOT 5 BLKS K and R of maps pages 28 & 29 on 2-23-23 entitled "Southgate", being a subdiv of Blk J, City of Palo Alto; general construction on 6-room bungalow and garage.

Owners—Geo. J. and Ida C. Miller, Palo Alto.

Plans by Builder.

Contractor—Howard L. Gray, 1919 Emerson St., Palo Alto.

Filed July 10, '30. Dated July 3, '30.

Completion of foundation.....\$ 500

Completion 2nd coat of plaster 2150

Completion of roof.....1650

Completion of buildings.....2150

Usual 35 days.....2150

TOTAL COST, \$8600

Bond filed. Surety, National Surety Co. Forfeit \$8600. Limit, 90 days.

Plans and Spec. filed.

RESIDENCE & GARAGE

LOT 3, Auzule Subdiv Quito Rancho, Saratoga; general construction on residence and garage.

Owners—Harry R. and Ersilia C. Bogart, 129 25th Ave., San Francisco.

Architect—Binder & Curtis, 35 W San Carlos St., San Jose.

Contractor—S. Kempthorne, San Francisco.

Filed July 10, '30. Dated June 25, '30.

When fraem is up & enclosed \$2000

When plaster is completed.....2000

Whok work is completed.....2500

Usual 35 days.....2500

TOTAL COST, \$9000

Bond, \$9000. Sureties, Indemnity Insurance Co. of North America. Limit 120 calendar days from July 10, 1930.

Plans and Spec. filed.

LIENS FILED

SANTA CLARA COUNTY

Recorded Amount

July 3, 1930—LOT 3 BLK 11, Evergreen Park, Palo Alto. Steve and S H Anderson vs Frieda A Simmen.....\$173.25

July 3, 1930—LOTS 10 AND 18 BLK 123, Crescent Park No. 2, Palo Alto. S M Henney vs Howard L. Gray.....\$65

July 3, 1930—LOTS 10 AND 18 BLK 123, Crescent Park No. 2, Palo Alto. Grant Winner vs Howard L. Gray.....\$602.45

July 5, 1930—LOT 15 BLK 17, Los Altos No. 2, Los Altos. Merneer Lumber Co., \$134.57; Progress Lumber Co., \$899.75 vs Mary D Knight et al.....

July 9, 1930—LOTS 36 AND 37 BLK 7, Bartley Tract Subd No. 3, Palo Alto. San Carlos Lumber Co., \$484.27; Sudden Lumber Co., \$264.44 vs Martha K Dillon.....

July 9, 1930—LOTS 10 AND 18 BLK 123, Crescent Park No. 2, Palo Alto. Detroit Steel Products Co vs Howard L and Nora O Gray.....\$208

July 10, 1930—LOT 3 BLK 11, Evergreen Park, Palo Alto. Palo Alto Lumber Co vs Frieda E Simmen.....\$863.32

RELEASE OF LIENS

SAN MATEO COUNTY

Recorded Amount

July 5, 1930—LOT 1 BLK 22, Gellmont. Lannom Bros to whom it may concern.....

RELEASE OF LIENS

SANTA CLARA COUNTY

Recorded Amount

Jul; 5, 1930—PART LOT 2, Francis Smith Tract, San Jose. San Jose Wrecking & Building Supply Co to First National Bank of San Jose.....\$333.90

BUILDING PERMITS

REDWOOD CITY

DWELLING, frame, 5-room, bath and garage, \$3000; 611 Lexington Ave.; owner, Thomas Nelson, 51 Perry St., Redwood City; contractor, F. Nelson, 51 Perry St., Redwood City.

DWELLING, frame, 5-room, bath and garage, \$3000; 187 Hillside Ave.; owner, H. J. Morton; contractor, L. J. Klein Realty Const. Co., Toyon Way, Emerald Lake.

DWELLING, frame, \$3000; 343 Jeter St.; owner, E. Strandquist, 229 Iris St., Redwood City.

DWELLING, frame, 6-room, bath and garage, \$4000; 1229 Jefferson Ave.; owner, W. E. Griffin; contractor, G. B. Goss.

DWELLING, frame, 5-room, bath and garage, \$2000; 175 Nuevo Avenue; owner and builder, P. De Cristofori.

BUILDING PERMITS

SAN JOSE

ALTERATIONS to class C business building, \$3750; 169 S First St.; owner, Mrs. L. S. Martin, 301 S 5th St., San Jose; contractor, T. H. Herschbach, Twoby Bldg., San Jose.

ALTERATIONS to frame residence, \$1000; San Carlos and Spencer; owner, Giuseppe Re, San Carlos and Re, San Jose; contractor, Cecil Douglas, R. F. D. No. 3, Box 308.

ALTERATIONS to frame residence, \$2475; 183 W St. James; owner, E. J. Pellier, 183 W St. James, San Jose; contractor, The Minton Co., 16 N First St., San Jose.

RESIDENCE, 1-story frame, \$7500; 13th St. near Reed; owner, C. E. Blockie, 486 S 1st, San Jose; contractor, Ira Brotzman, 5 Garfield, San Jose.

BUILDING CONTRACTS

MARIN COUNTY

RESIDENCE

SAN RAFAEL; general construction on residence.

Owners—Mr. and Mrs. Harry Lutgens.

Architect—N. W. Sexton, deYoung Bldg., San Francisco.

Contractor—Otis H. Smith, Freitas Bldg., San Rafael.

Filed July 2, '30. Dated July 1, '30.

Rough frame up.....25%

Plastering completed.....25%

Work completed.....25%

Usual 35 days.....25%

TOTAL COST, \$12,427

Plans and Spec. filed.

COMPLETION NOTICES

MARIN COUNTY

Recorded Accepted

July 12, 1930—SAN ANSELMO. Town of San Anselmo to Robert Watson.....May 1, 1930

July 12, 1930—SAUSALITO. L Scatena to Jacks & Irvine, Inc.....July 12, 1930

July 14, 1930—LOCATION OMITTED. Mary C Aylesworth to F W Wardell.....July 12, 1930

July 14, 1930—MILL VALLEY. Mary F Silveira to Andrew Andersen.....July 14, 1930

July 7, 1930—MILL VALLEY. Ida M Boyle to whom it may concern.....July 3, 1930

July 7, 1930—CORTE Madera, Eden & Kanrich to whom it may concern.....July 7, 1930

July 10, 1930—SAN ANSELMO. Graham McPhail & John to Smerer & Kendall.....June 27, 1930

BUILDING CONTRACTS

CONTRA COSTA COUNTY

COTTAGE & GARAGE

0.549 ACRES in town of San Pablo; general construction on cottage & garage.

Owner—Standard Oil Co. of California.

Architect—None.

Contractor—Norman E. Anderson, 3000 Barrett Ave., Richmond.

Filed July 14, '30. Dated July 9, '30.

On last day of every month.....75%

Usual 35 days.....25%

TOTAL COST, \$5685.50

Plans and Spec. filed.

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded Accepted

July 8, 1930—NORTH ONE-HALF Lots 7 and 8, Blk 77, Original Survey, Martinez. S Gabellini to John DeSilvia, Jr.....July 28, 1930

July 8, 1930—LOTS 3 and 4 BLK 5, Richmond Villa Tract. J A Fontanel to Tandy & Theiss.....July 5, 1930

July 9, 1930—LOT 1 BLK 1, Amended Richmond Pacific Heights. Charlotte Diener to whom it may concern.....July 7, 1930

July 12, 1930—PTNS LOTS 5, 6 and 7 Blk 191, Original Survey, Martinez. G H Lorenzo to whom it may concern.....July 11, 1930

July 1, 1930—LOT 15 BLK 11, Evergreen Park, Palo Alto. H L Page and W G Bell to whom it may concern.....June 27, 1930

July 2, 1930—PART LOT 1, P. G Keith's Subd. Los Gatos. L E Rudy to whom it may concern.....June 26, 1930

July 2, 1930—LOT 287 BLK S, Redwood Estates. Rupert T Moore et al to whom it may concern.....June 26, 1930

July 2, 1930—LOTS 19 AND 20 BLK 31, College Terrace, Palo Alto. Arthur H. Excell and Edgar H. Tucker to whom it may concern.

June 30, 1930
July 3, 1930—LOT 10 BLK 4 Garden City Tract, San Jose. Thomas F. Mahaffey to whom it may concern.

July 3, 1930—LOTS 12 AND 13 BLK 2, Larson Subd., No. 2, San Jose. Jesse W. Reynolds et al to whom it may concern.

June 30, 1930
July 3, 1930—LOT 18 BLK 17, Hanchett Residential Park, San Jose. L. A. Campbell et al to whom it may concern.

July 1, 1930—LOT 9 BLK 17, Subd. of Lendrum Tract, San Jose. Andrew J. Ogg to whom it may concern.

June 28, 1930
July 3, 1930—NO. 711 SALVATIERRA ST., Stanford University. W. B. Duncan to whom it may concern.

July 2, 1930
July 3, 1930—LOT 5 BLK 4, Claremont Subd., San Jose. Charles A. Quinn to whom it may concern.

July 3, 1930—ON 1000 ACRE PT LOT 11, Las Animas Ranch, San Jose. Lawrence A. Kelley to whom it may concern.

June 27, 1930
July 8, 1930—NW REED & FIRST STS., San Jose. Firestone Tire & Rubber Co to whom it may concern.

July 1, 1930
July 8, 1930—LOTS 17 AND 18 BLK 31, College Terrace, Palo Alto. Cleo and William Kopp to whom it may concern.

July 7, 1930
July 9, 1930—LOT 6 BLK 3, Lincoln Gates Subd., San Jose. Kenneth M. Bryant to whom it may concern.

July 9, 1930
July 9, 1930—W PINE AVE 110 N Hopkins Ave N 40xW 100 ft. Part Lots 5 and 6 Blk 3, Alba Park Addition, Palo Alto. O. H. Dahl to whom it may concern.

July 8, 1930
July 9, 1930—NW EMORY AND SW Myrtle Sts., San Jose. Ira Bortzmann to whom it may concern.

July 9, 1930
July 10, 1930—NW KENNEDY RD and Ferris Ave., Los Gatos. U. Upland et al to whom it may concern.

July 10, 1930
July 10, 1930—ON 2.75 AC Part Lot B, Hale Ranch Subd., San Jose. Salemma M. Patterson to whom it may concern.

July 19, 1930

LIENS FILED

CONTRA COSTA COUNTY

Recorded	Amount
July 8, 1930—LOTS 6, 7, 8 and 9 in Subd. of Blk 1W, Rosco. O. Prytz vs Antonio and Jacuina Silva and Manuel Serpa	\$669.40

LIENS FILED

SONOMA COUNTY

Recorded	Amount
July 7, 1930—FITCH MOUNTAIN Tavern Tract, 10 acres; also Lots 8 and 9 Blk O Camp Rose Subd. and Lots 1 and 2 Blk 3, Fitch Mt Tavern Subdiv. Oreste E. Scallone, \$361; C O Stevens, \$264.58, vs Fitch Mountain Development Company	

BUILDING CONTRACTS

SAN JOAQUIN COUNTY

HEATING INSTALLATION
405-409 E MAIN ST., Stockton; complete heating installation.
Owner—S. H. Kress & Co., premises.
Architect—None.
Contractor—Scott Co., 243 Minna St., San Francisco.

Filed July 15, '30. Dated June 20, '30.
Payments Not Given.
TOTAL COST, \$6700
Limit, complete by August 5, 1930.

COMPLETION NOTICES

SAN JOAQUIN COUNTY

Recorded	Accepted
July 10, 1930—CENTRAL ST., Tracy. Urban Properties Co to Ecker & Stegmiller	July 5, 1930
July 10, 1930—LOT 14 BLK 3, Lomita Park, Stockton. George B. Schneider to whom it may concern	July 5, 1930

BUILDING CONTRACTS

MONTEREY COUNTY

SCHOOL
UNION HIGH SCHOOL GROUNDS, King City. All work for one-story unit to King City Union High School.
Owner—King City Union High School District, King City.
Architect—H. B. Douglas, Greenfield.
Contractor—The Minton Co., Mountain View.
Filed July 11, '30. Dated July 1, '30.
As work progresses..... 75%
Usual 35 days..... Balance
BOND, \$—, Limit, forfeit, none.
Plans and specifications filed.

COMPLETION NOTICES

MONTEREY COUNTY

Recorded	Accepted
July 14, 1930—LOTS 1, 2 AND 4 Blk 26, Pacific Grove Retreat, Pacific Grove. California M. Healey to E. R. Stalter	June 13, 1930
July 14, 1930—LOT 6 BLK 8, Homestead Addition to Salinas City. Emile Sgheiza Jr. to Louis Gibbs	July 11, 1930
July 15, 1930—LOT 5 BLK 34, Little's Survey of New Monterey and Lot 7 Blk 34, Map of Linda Vista Tract, Monterey. Eleanor B. McCormish to Newman & Halsted	July 12, 1930
July 5, 1930—ALL LOT 12 and Part Lot 11 Blk 153, La Loma Terrace to Carmel. Kenneth E. Wood to V Miles Bain	July 3, 1930
July 8, 1930—TOWN OF CHUALAR Pacific Gas & Elec Co to Jacobson & Nielsen (Sub-station)	June 28, 1930
July 5, 1930—LOT 124 and W ½ Lot 126, Map Grey Eagle Tract, subdivision of Rancho Noche Buena. C F Houston to J V Cain	July 8, 1930
July 11, 1930—ALL LOT 12 and N 20 ft. Lot 14 Blk B-17, Carmel. Alice S. Barlow to whom it may concern	July 8, 1930

LIENS FILED

MONTEREY COUNTY

Recorded	Amount
July 10, 1930—LOT 3 BLK 21, Spring's Addition to Salinas. Chas A Hoosier vs Cleon A and Florence Tynan	\$133.71

BUILDING PERMITS

STOCKTON

REMODEL hotel and build shower rooms, \$5500; No. 123 S. Sater St., Stockton; owner, W. R. Clark, premises; contractor, Lewis & Green, Bank of Italy Bldg., Stockton.

REMODEL dwelling and sleeping porch, \$1000; No. 1221 N. Van Buren St., Stockton; owner, J. D. Campbell, premises.

RESIDENCE and garage, \$3000; 347 E Monterey St.; owner, A. Krelm; contractor, J. M. Helterbrand, 2644 E Main St., Stockton.

SUPER-SERVICE station, \$4500; No. 747 N-California St., Stockton; owner, Catherine Ray, premises; Jesse, Texas Oil Co., 401 N-San Jose St., Stockton.

BUILDING CONTRACTS

SACRAMENTO COUNTY

WAREHOUSE
COR. EIGHTEENTH AND C STS., Sacramento. All work for brick warehouse (50x160 feet.)
Owner—California Almond Growers Exchange, 1809 C St., Sacramento
Architect—None.
Contractor—H. W. Robertson, 2630 Sixth Ave., Sacramento.
Filed July 12, '30. Dated July 1, '30
TOTAL COST, \$14,175

BUILDING PERMITS

SACRAMENTO

RESIDENCE, 7-room, \$4500; No. 2805 E St., Sacramento; owner, Margaret F. Matteson, 511 23th St., Sacramento; contractor, H. C. Prince, 3800 33rd St., Sacramento
RESIDENCE, 6-room, \$5900; No. 1650 12th Ave., Sacramento; owner, J. G. Mason, Riverside; contractor, M. R. Peterson, 4530 Parker Ave., Sacramento.

RESIDENCE, 7-room, \$7000; 951 41st St.; owner, Victor Dorsa, 602 17th St., Sacramento; contractor, R. L. Hathaway, 720 Redwood Avenue, Sacramento.

LUMBER shed, \$1000; No. 1835 37th St., Sacramento; owner and contractor, Capital Lumber Co., 1833 37th St., Sacramento.

WAREHOUSE, brick, \$12,000; No. 1801 C St., Sacramento; owner, California Almond Growers Exchange, 1809 C St., Sacramento; contractor, H. W. Robertson, 2633 Sixth Ave., Sacramento.

BARN, 2, \$5865; State Fair Grounds; owner, State of California; contractor, Guth & Fox, 1520 27th St., Sacramento.

GARAGE, public, and service station, \$1110; 3325 Poleom Blvd.; owner, L. B. Beach, 1440 34th St., Sacramento; contractor, M. G. Burnside, 2000 Y St., Sacramento.

REPAIRS, general, \$3000; 1424 D St.; owner, T. E. McSweeney, 1911 D St., Sacramento; contractor, J. Johnson, 1819 23rd St., Sacramento.

SCHOOL, private, \$2000; 724 S St.; owner, Robt. Armstrong, 1019 11th St., Sacramento; contractor, J. O. Armstrong.

REPAIRS, general, \$3000; 1031 L St.; owner, Hotel Senator, premises; contractor, L. and E. Emanuel.
RESIDENCE, 5-room, \$5000; 361 37th St.; owner, C. H. Thompson, Carmichael, Calif.

COMPLETION NOTICES

SACRAMENTO COUNTY

Recorded	Accepted
July 8, 1930—LOCATION OMITTED. Dept of Public Works, Division of Highways, State of California to whom it may concern (rental of five 1200-gal. oil tank trucks, etc.)	June 24, 1930
July 10, 1930—LOT 41, W. & K. Tet No. 34, Sacramento. J. Sumner and Virginia Y. Powers to whom it may concern	July 8, 1930

LIENS FILED

SACRAMENTO COUNTY

Recorded Amount
 July 10, 1930—LOT 42, Harding
 Place, Sacramento, Valley Brick
 Co vs M Martinehl\$34

BUILDING PERMITS

FRESNO

DWELLING, \$3500; No. 1510 Wishon
 Ave., Fresno; owner, A. R. Ek-
 lund, 1332 Andrews St., Fresno.
 ALTERATIONS and additions, \$15,000
 No. 1212 Fulton St., Fresno; own-
 er, Smart Shop, Premises; con-
 tractor, E. J. Farr & Son, 1296
 Linden St., Fresno.
 SERVICE station and rest room,
 \$4500; H and Divisadero Sts.,
 Fresno; owner, The Texas Co.,
 San Francisco.
 WAREHOUSE, storage, \$1000; No.
 3405 Tulare St., Fresno. C R
 Shipley, 419 G St., Fresno
 SHED, storage, \$2500; 2009 East Ave.;
 owner, Bonner Packing Co., 2009
 East Ave., Fresno.
 ALTERATIONS and additions, \$1100;
 801 Olive Ave.; owner, Standard
 Oil Co., premises; contractor, D.
 Shorb, 1295 Linden St., Fresno.
 ALTERATIONS and additions, \$3000;
 D and Fresno Sts.; owner, Jas. P.
 Ryan, D and Fresno Sts., Fresno.

BUILDING CONTRACTS

FRESNO COUNTY

PAINTING
 SAN JOAQUIN VALLEY. All work
 for painting various service sta-
 tions.
 Owner—Union Oil Co., Van Ness and
 Inyo Sts., Fresno.
 Architect—None.
 Contractor—R. E. Strawford.
 Filed July 11, '30. Dated Jan. 6, '30.
 20 days after completion of each
 station
 TOTAL COST, \$4838
 Bond, \$4836. Surety, U. S. Fidelity
 & Guaranty Co. Limit, 26 working
 days. Forfeit, plans and specifica-
 tions, none.

COMPLETION NOTICES

FRESNO COUNTY

Recorded Accepted
 July 11, 1930—LOT 3 BLK 33, Sierra
 Vista Addition No. 5, Fresno. E
 R Jenkins to A Gassmann.....
 July 10, 1930
 July 11, 1930—LOT 2 BLK 33, Sierra
 Vista Addition No. 5, Fresno. W
 H John to A Gassmann.....
 July 10, 1930
 July 8, 1930—NEAR HUME. Dept
 of Public Works, Division of High-
 ways, State of California to Gen-
 eral Transfer Co..... June 30, 1930

LIENS FILED

FRESNO COUNTY

Recorded Amount
 July 12, 1930—SE ¼ OF NE ¼ OF
 Sec 21 16-21, Fresno, Citizens
 Lumber Co vs John A Terkanian
\$497

Standardization has been made a
 keynote in chassis, body, and cab de-
 sign of the entire line of General Mo-
 tors Corporation trucks according to
 an article in Motor World Wholesale
 for March, 1930. "Although there are
 118 different types of trucks, only six
 frame assemblies, five transmissions,
 five front springs, three front axles,
 and three radiators are used."

OFFICIAL PROPOSALS

(Continued from Page 24)

the State Highway Engineer. The
 special attention of prospective bidders
 is called to the "Proposal Require-
 ments and Conditions" annexed to
 the blank form of proposal, for full
 directions as to bidding, etc.

The Department of Public Works
 reserves the right to reject any or all
 bids or to accept the bid deemed for
 the best interests of the State.

DEPARTMENT OF PUBLIC WORKS,
 DIVISION OF HIGHWAYS.

C. H. PURCELL,

State Highway Engineer.

Dated July 9, 1930.

NOTICE TO CONTRACTORS

(Air Corps Hospital and Non-Com-
 missioned Officers Quarters—
 March Field)

Office Constructing Quartermaster,
 March Field, Riverside, California.

Sealed proposals in triplicate will be
 received here until 11:00 o'clock A. M.,
 August 20, 1930, and then opened, for
 the construction of One Air Corps
 Hospital and Twelve sets of Non-
 Commissioned Officers' Quarters. Copies
 of plans and specifications may be
 had on application from the Con-
 structing Quartermaster at March
 Field, Riverside, Calif.; \$25.00 dol-
 lars deposit on each set of plans will
 be required for return of same. Copy
 of plans and specifications may be
 seen also in the office of the Con-
 structing Quartermaster, Fort Mason,
 California.

Expenditure of seven and a half
 per cent of the \$17,360,797 being in-
 vested in building construction, in
 66 of the larger cities of California
 for which permits were issued in

June, will be in Greater Oakland
 structures, the Oakland Real Estate
 Board announces.

During the first half of 1930 the
 seven municipalities of Greater Oak-
 land issued permits for eight and a
 half per cent of all new construction
 authorized by these 66 California
 cities.

During the comparable period of
 1929, the Greater Oakland quota was
 8.8 per cent.

Fred T. Wood, president of the
 board, said:

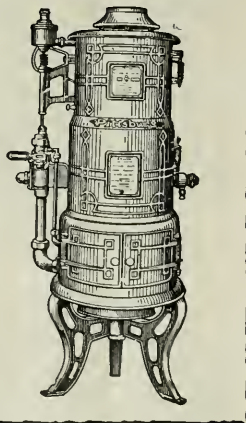
Throughout California as a
 whole, the new construction pro-
 gram of this year is running ap-
 proximately 29 per cent behind
 that of the previous year, while
 that of the Pacific Coast as a
 whole reflects a reduction of more
 than 30 per cent.

Oakland figures, however, show
 a reduction of 28 per cent.

The June building permit totals for
 the Greater Oakland cities and for
 the other larger Pacific Coast cities
 are: Oakland, 306 permits, \$883,199;
 Alameda, 53 permits, \$71,576; Albany,
 22, \$27,875; Berkeley, 132, \$197,302;
 Emeryville, 6, \$17,780; Hayward 8,
 \$46,883; Piedmont, 12, \$37,043; Rich-
 mond, 34, \$30,710; San Leandro, 12,
 \$34,742; Los Angeles, 2524, \$5,485,132;
 Long Beach, 407, \$1,004,575; Pasa-
 dena, 217, \$1,261,834; San Francisco,
 565, \$2,232,809; Seattle, 598, \$1,581-
 855, and Portland, 533 permits, with
 a valuation of \$937,610.

FILLING BIG ORDER

The South San Francisco plant of
 the Western Pipe & Steel Company
 is working on an order for 500 steel
 car underframes with accessories for
 the Pacific Fruit Express Company.
 This is a new field for the Western
 organization as it is stated that this
 is the first time such a product has
 been manufactured in California.



A "Pittsburg" Auto-
 matic Water Heater
 installed in the Home
 indicates high quality
 throughout.

Recommended and speci-
 fied by all the leading ar-
 chitects, plumbers and
 builders.

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 of the Pittsburg coupled
 with "Pittsburg Perfect
 Service."

"Hot water quick as a
 wink."

Pittsburg Water Heater Co.

Makers of "Pittsburg Automatic"—"Bungalow Automatic"
 Storage Systems and "Lyon" Tank Water Heaters.

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BUILDING *and* ENGINEERING NEWS

Publication Office
647 Mission Street

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Thirtieth Year, No. 30
Published Every Saturday



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Devoted to the Architectural, Building, Engineering and Industrial Activities on the Pacific Coast

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FRESNO IRRIGATION DISTRICT SEEKS WATER RIGHTS

The Fresno Irrigation District of Fresno County seeks authorization of the State Department of Public Works, Division of Water Resources, to appropriate 200,000 acre feet of surplus waters from the San Joaquin river.

The district, according to the application filed, proposes to dam the river under the following specifications: Diverting dam, 120 feet in height; 1410 feet long along the top, concrete construction. Storage dam, 247 feet in height, 3400 feet on top, 250,000 acre feet capacity, 2950 acres surface area.

The site of the project is described to be in sections 3, 4 and 5 of township 11, range 21, and sections 23, 24, 25, 26, 27, 32, 33, 34, 35 and 36 of township 10, range 21. The estimated cost is not disclosed.

At no time will the total storage in the reservoir proposed exceed 200,000 acre feet of water, and the diverted and stored waters will be conveyed through a canal of an approximate capacity of 750 cubic feet flowing per second, according to the complaint. The canal will lead out of the reservoir at Friant, running in a general southerly and southeasterly direction for a distance of approximately 13 miles to a point immediately within the northern boundary of the district in section 28, township 12, range 21. Waters from the canal will be poured into existing distributing canals and ditches belonging to the district and carried to lands embraced within the district boundaries. The supply will be for the public use of the land owners and inhabitants of the district for domestic and irrigation purposes as well as the watering of stock. Geo. L. Swendsen is chief engineer and manager of the district.

PALO ALTO IN PROTEST ON IMPORTING LABOR

According to word from Palo Alto, a committee representing the city government, labor groups, the merchants' association and the Chamber of Commerce, will interview K. E. Parker, general contractor on the new \$500,000 Palo Alto Hospital, "to learn from him why he employs imported labor, despite many appeals made to him to give work to local artisans."

The committee is composed of Mayor C. H. Christensen, Bert P. Ward, carpenters' union; Floyd C. Baker, painters' union; E. C. Tholts, merchants' association; D. A. Mendenhall, chamber of commerce; L. H. Anderson, building inspector; and O. F. Campbell, member of the board of public works.

It is stated that prior to the signing of the contract Parker gave oral assurance that local labor would be given preference to outside workmen in the matter of jobs.

Unlicensed Architect Gets 20-Day Jail Term

Refusal to repay \$200 which he had collected for plans drawn for the First Baptist Church of Redwood City, to which he had represented himself as an architect without a state license, resulted in a 20-day jail sentence for J. G. Lehman.

Sentence was passed by Judge Edward I. McAuliffe at Redwood City, who gave Lehman the alternative of paying a \$200 fine. The case was prosecuted by Richard O. Bell, deputy county attorney, with A. L. Bolton, acting as representative of the State Board of Architectural Examiners.

After hearing the case, Judge McAuliffe found Lehman guilty of practicing without a license and the sentence was passed.

Bids for the new Baptist Church to be erected in Redwood City were thrown out recently when it was found that the plans had been drawn by an unlicensed architect.

Architects and Engineers Must Pay Municipal Tax

Ordinance 8788, recently adopted by the San Francisco Board of Supervisors, imposes a license tax on architects as well as on engineers—civil, electrical or mechanical. Landscape gardeners are also included.

For any firm or individual engaged in such lines of business where the annual gross receipts of which amount to less than \$3,000, the tax will be \$2 per quarter; \$3,000 and less than \$5,000, \$4.50 per quarter; \$5,000 and less than \$7,500, \$6 per quarter; \$7,500 and less than \$10,000, \$7.50 per quarter; \$10,000 and less than \$15,000, \$11.25 per quarter; \$15,000 and less than \$20,000, \$15 per quarter; \$20,000 and less than \$25,000, \$18.75 per quarter; \$25,000 and less than \$30,000, \$22.50 per quarter; \$30,000 and less than \$40,000, \$30 per quarter; \$40,000 and less than \$50,000, \$37.50 per quarter; \$50,000 and less than \$60,000, \$45 per quarter; \$60,000 and less than \$70,000, \$52.50 per quarter; \$70,000 and less than \$80,000, \$60 per quarter; \$80,000 and less than \$90,000, \$67.50 per quarter; \$90,000 and less than \$100,000, \$75 per quarter; \$100,000 and less than \$150,000, \$112.50 per quarter; \$150,000 and over, \$125 per quarter.

Ordinance 8788 was finally passed by the Board of Supervisors on June 20 and received the signature of Acting Mayor Angelo Rossi on July 11.

State Reclamation Board is considering recommendations to appropriate \$300,000 to finance levee construction and flood control work in the Sacramento Valley. Four levees in the Yolo By-Pass at a cost of \$142,000, and one on the Feather River, costing \$88,000 are contemplated.

RED RIVER LUMBER COMPANY ANNOUNCES WAGE CUT

The wage scale of the Red River Lumber Company plant at Westwood, Lassen County, will be cut, July 28th, about 15 per cent below last year.

The company announcement, signed by T. S. Walker, resident manager at Westwood, cites the low lumber prices and the small sales as the reason. The new employees, hired after July 28th, will take a slightly lower wage than the wages paid the older crew members.

But Westwood is a company town, and the Red River Company will relieve the pressure by cutting house and room rents by the same percentage the wages are reduced. July 28th will also mark the start of the company cafeteria, a 15 per cent reduction in the theatre admission prices and the laundry and the dry cleaning rates.

Expressing regret at the need for the wage reductions, applicable to salaried and hourly-pay basis positions alike, the company cited the lumber prices and the sales of various grades of lumber last month as compared with June, 1929.

Typical are:

Six-by-fours, No. 1 and 2 clear, R. W., June, 1929, 115,000 board feet sold at \$67.35 per M.; June, 1930, \$8,000 board feet at \$60.20 per M.

Five-by-fours, No. 2 shop, June, 1929, \$23,000 board feet sold at \$31 per M.; June, 1930, 519,000 board feet at \$20.35 per M.

CALIFORNIA SECOND IN U. S. BUILDING OPERATIONS

California with 66 cities reporting, runs second in the United States in building operations for the first half of the year, 1930. Building operations undertaken in these 66 cities during the past six months involved an expenditure of \$105,679,933 as compared with New York State which topped the list with 46 cities reporting. The New York State total is \$253,005,327. Following are the twelve leading states:

	No. of Places	Volume of Permits for First Half, 1930
1. New York	46	\$253,005,327
2. California	66	105,679,933
3. Ohio	27	69,334,283
4. Pennsylvania	30	64,834,820
5. Illinois	52	62,878,555
6. Michigan	22	46,487,730
7. Massachusetts	30	40,111,514
8. New Jersey	36	40,061,846
9. Texas	21	35,615,198
10. Wisconsin	20	30,610,975
11. Washington	14	25,091,423
12. Connecticut	19	22,825,219

ART AND ECONOMICS OF THE SKYSCRAPER—UNJUST CRITICISM

As a representative of the steel construction industry in the United States it is a privilege and a pleasure to convey you greetings. We in America—and our membership includes Canada and Mexico as well as the United States, take pride in the fact that the steel construction industry of Europe is inclined to find favor in some of the things we have done on the other side of the Atlantic.

Our country covers a vast area and not all of the steel constructors there are engaged in similar work. Some of our members are concerned mostly with the erection of great bridges. Some build only factories and industrial buildings. Others specialize in the many branches of heavy construction which our country so happily offers. It is my good fortune to have been engaged in the erection of multiple-story buildings, or the skyscraper, and it is to that which I intend to address myself specifically.

The American skyscraper today is the product of the best economic, engineering as well as artistic knowledge. As an engineer and a steel constructor I may be inclined to accentuate some things about building which would be overlooked by another, but experience with modern-day practice compels me to confess that an engineer alone would not produce that kind of structure which might prove highly successful. As an engineer I know that tall buildings can be safely built to a height of 2000 feet (610 meters). Skyscrapers with penthouses to rival mountain lodges can be built today, because we have at our command the most perfect building material known to man—steel—but whether such buildings would pay on the investment, or whether they could be made to appear aesthetically satisfactory is a matter that must first be passed upon by others.

As a steel constructor I would like to tell you something of the problems we have encountered in the building of skyscrapers. To me it is a fascinating story and to nearly everyone extremely dramatic.

The story of steel began in the town of St. Pancras, in England. It was there, in 1854, that one Henry Bessemer (later to be knighted and famous throughout the world) made his great discovery, the discovery which he came on in his small ironworks, that if he blew a blast of air through molten iron he oxidized and drove out a number of impurities which made iron an uncertain substance chemically, and to all intents and purposes produced a new substance—steel. The process of Bessemer and of Kelly, who made an almost simultaneous discovery, is old-fashioned and inadequate now; modern metallurgy has far surpassed it in wonders. But it was the start. From that time on, the Woolworth Building was a possibility. And trains that traveled sixty miles per hour. And one automobile for every five people in our country. And man's conquest of the skies. None were, before that blast of air went through that caldron of iron and dross. Once it had, each one, you may like to think, had its actual beginning.

Who designed the first skyscraper is still a matter of dispute. L. S. Buffington, a Chicago architect, attempted to file letters patent on his skyscraper design in 1887, but was never able to establish his claim. That did not prevent him, however, from threatening suit for patent infringement.

George E. J. Pistor, treasurer and director of the American Institute of Steel Construction, who is visiting Europe this summer and consulting with the steel interests of England, France, Germany, Holland and Belgium, made the following speech at London before the British Constructional Engineers.—Editor.

ment against several owners of later skyscrapers. Another claimant is W. L. B. Jenny, who built the first steel-framed building, the Home Insurance Company Building in 1883.

The earliest beginnings of metal frame construction are probably to be found in the building erected in 1854 in New York for Harper & Brothers, whose cast iron columns were used as supports. Wrought-iron beams and columns were used in buildings for the Centennial Exposition in Philadelphia, in 1876. By that time, iron was beginning to be a fairly common building material. But there was another problem that had to be solved before engineers were ready to construct tall buildings. That was the problem of getting people from floor to floor without stairways. One of the earliest elevators known was the one installed in the ornate old Fifth Avenue Hotel in New York, in 1859. It was built by Otis Tufts and cost \$25,000. A steam engine ran it by turning an immense vertical screw—whence its name, vertical screw railway—much as a nut is moved up and down on a bolt by turning the bolt. The first suspended elevator, the forerunner of the kind we know today, was installed seven years later in the old St. James Hotel, New York.

Then came foundations. Simply digging a hole in the ground and building up masonry to support the building was not sufficient for more than a few stories. The foundation problem was not solved until 1880, when the Federal Building in Chicago sank considerably and caused great apprehension among builders and engineers. That started an investigation from which developed a wholly new and modern method of foundation building. Nowadays foundations are in practically all instances, placed under the foot of each column in the building, each one independent of the other. These footings are carried down into the ground until they reach a safe foundation. In some places, like New Orleans, it is necessary to sink piles until they strike a bottom solid enough to carry the weight, or to a depth which will afford a skin friction sufficient to support the building. By some means or other a perfectly safe and solid bottom must always be provided.

With elevators, foundations, and the new structural steel, the time was ripe for the first true skyscraper. The Home Insurance Company, in 1883, put up a building in Chicago in which were used, for the first time, some of the skyscraper principles—primarily of supporting the entire weight of the walls on a steel framework, instead of making the walls themselves carry the weight of the building. The 14-story Tacoma Building in Chicago, erected in 1887, carried skyscraper principles still further, and is generally known as the first real skyscraper. The Tacoma Building was supported entirely by a metal frame, and the walls did no more than curtain off the interior and protect it from the elements. So sound was its design that when the

owners, the University of Chicago, demolished it recently to make way for a 24-story building with a 23-story tower, the framework was found to be in perfect condition.

To build higher and to build larger was only a matter of further experimentation, for engineers realized that in steel they had a material upon which they could depend absolutely. Accessories, of course, had to be improved, particularly the elevator. After Tuff's vertical screw railway type came the hydraulic plunger and later the electric elevator. Electric elevators have been developed to move at the astonishing speed of 1,000 feet (305 meters) a minute, with an acceleration so accurately controlled that passengers are hardly conscious of the rate at which they are traveling. No building is yet equipped with elevators as rapid, but those in the towering new 68-story Chrysler Building in New York move at the rate of 700 feet a minute (356 centimeters a second). When the legal limit is raised they can travel at the rate of 1,000 feet a minute. Elevators now being designed for the Empire State Building will be able to travel at the rate of 1,200 feet a minute (610 centimeters a second).

As a matter of engineering I could leave the story with you at this point, and you would undoubtedly agree with me that it has been a fascinating and dramatic story. It is fascinating because of the infinite possibilities of this modern material—steel—and the exact knowledge that man has acquired of it, an exactitude which has been impossible with any other building material. It is dramatic because of the sureness with which this new art of skyscraper building has come upon us—a type of building that was unknown fifty years ago. But today the skyscraper is indigenous to every city in the United States and is being built in many of the important cities of the world. There are today more than 4,778 buildings in the United States of 10 stories and over in height and of this number 247 are in New York. There are 377 buildings over 20 stories in height of which 138 are in New York City. Thus over 50% of our skyscrapers are in New York City. Chicago, Los Angeles, Detroit, Philadelphia and Boston are the other cities in the United States which have over 100 buildings 10 stories and over. Forty years ago a 10-story building was thought to be a skyscraper. Today we are building office structures 50 and more stories high.

In the future we will build even higher. I say that not upon my knowledge as an engineer—as an engineer I know we can build 2,000 feet (610 meters) high with steel—or some 200 stories or more. But economists, who are today calling for advice tell us that we must build higher if we are to earn a proper return upon the ever increasing land values in our urban centers. The concentration of business activities in our cities, making it highly desirable for great numbers of persons to do business at a single locality calls for ever increasing floor accommodations, and the only way that is to be obtained is by placing one floor above another, thus giving a floor area from fifty to a hundred times the ground area.

As the world becomes more populated and the desire for centralization becomes more and more pronounced, the cities find a greater necessity for larger structures to house the greater

army of people conducting the businesses to provide the needs of the public. It is a human tendency to desire to conduct business from centers and, as the demand for these central locations becomes more acute the values of such locations increase proportionally. It is plain to see that as land values increase, it becomes necessary to build so that the return will be commensurate with the investment. The reason for a building to supply floor area and the more floors there are the greater the rentable floor area from which the income is obtained.

We had our critics who objected to the tall building from the beginning and condemned it as the source of most evils of our city life, and it is only recently that an endeavor has been made to lay the real facts before the public which will make it possible to arrive at an intelligent conclusion.

It may be interesting to know that the first attack of his group was chiefly directed against—so the critics stated "the way they disfigured the streets and against the possibility of a catastrophe involved in the collapsing of one of these monsters on a crowded street." These criticisms amounted to nothing more than a prejudice against the new. Then came the criticism that these tall buildings shut out the light and air and were thus harmful to the health of the public. Lately the traffic conditions have become almost intolerable in our cities and again the skyscraper was blamed. The congestion argument has become the chief objection of those with conscientious scruples against the tall building.

In the matter of light and air it will be admitted by all that this applies only to the few lower floors—and that applies equally to buildings of limited height—but as we reach the upper floors of a modern skyscraper, we attain the maximum of sunlight and air and also a cheerful outlook. The higher the floor the more permanent are such benefits.

The more modern buildings have such arrangements of windows as to further assure an abundance of sunlight.

Also the modern skyscraper makes possible the provision for artificial illumination and ventilation and atmospheric control so as to even excel the natural light and air and thus afford the possibility of having the atmosphere of mountain resorts right in the heart of New York City.

The possibility of the collapse of one of these buildings upon a crowded street was at one time held up as a serious objection to building them. After the experience of two generations this fear has been all but forgotten. Engineers have been able to convince the public of their ability to design and erect these structures with absolute safety.

We still hear of the fire hazard and the danger to life of the occupants due to their inability to reach the ground in safety. All of our modern skyscrapers are built of fire resisting material and the trend in the furnishing of the offices is towards the non-burning kind. Of course we still have much of the contents that will burn and should a fire start it is necessary to confine it and either let it burn out or have it extinguished. The advances made in fire resisting construction and fire fighting equipment have reduced this menace to a minimum so that today the fire hazard is much less in the modern skyscraper than in most other types of buildings.

There are three distinct agencies which work towards guarding against fire loss. First, the City Building Department is charged with enforcing the strict regulations of the Building Code. Second, the City Fire Department is charged with inspection of the various features which concern them, not only during the construction but also periodically after occupancy and it is tru-

ly to the interest of the members of this department to see that all equipment is in working order and that no violation of the rules is allowed. Third, the Fire Underwriters are interested in reducing the fire loss, and in penalizing the owners by charging extra premiums they exert powerful influence to keep the requirements of the highest class lived up to.

The various legal regulations and fire underwriting recommendations are too numerous for me to discuss here. Some of the more important are the requirements for stairs and exits, the standpipes and tanks and fire pumps, and the outside windows of metal and wire glass.

Now just a few words regarding the congestion problem. This problem is not new and was present in our various cities long before we had any buildings over three or four stories high. As far back as the time of Julius Caesar, ancient Rome had this problem to contend with and many of the traffic regulations which we think modern were resorted to at that time. Thus history tells us that Rome had traffic policemen—taxi stands—one way streets—also regulations that specified due to the narrowness of the streets, merchants had to make their deliveries at night. In our own country this problem existed with bus and horse-car lines and ferriesboats, fifty years ago.

In London where buildings are limited to 100 feet in height above the sidewalk, every means of transportation and traffic is crowded. Where in our cities can you find more aggravated traffic congestion than is found at Aldergate or Ludgate Hill in London. Similarly in Paris and Buenos Aires, where there are no tall buildings you find the traffic congestion a problem very serious and growing steadily worse. In our own United States the experience of those cities where there are a few if any tall buildings, seems to indicate that low buildings do not save the community from congestion. Take for instance, Boston—Boston has a very wide spread business area, it has subways and a greater percentage of street area than most other cities, and yet where can you find a more serious traffic condition even in our tall building cities.

In New York City we find more serious congestion on Fifth Avenue and in the Times Square Section, than we do in the foot of Manhattan where most of the skyscrapers are. For the greater part of the day the department store sections are by far the more congested and in the evening you find the congestion in the theatre district where there are few if any tall buildings.

Not alone has the skyscraper taxed engineering genius and enlisted economic talent, but it has with us called into being new professions and greatly altered sociological conditions. These tremendous buildings must not only afford a shelter, but competition has forced improvements in equipment which would have been impossible under any other system of housing. Heating, ventilating and lighting have been so advanced that within the walls of a skyscraper the air is purer, the temperature more uniform and the light more perfect than on the streets in front. Transportation via elevators is equalled by no other means of travel by air, land or water.

These modern structures present a tremendous problem in their management. As a matter of fact the art of managing a skyscraper today is highly developed despite its newness, and our leading colleges and universities are offering courses of

training to persons who expect to enter this profession. To manage the routine affairs of a skyscraper is not merely a question of running a dynamo, a donkey engine, manipulating the levers in an elevator, repairing the electric lights or the ventilator fans, but it consists in managing numerous trained workmen who do care for these things and of supervising the receipts and expenditures on the tremendous investment represented by the building. Building management is a highly complex and exacting profession.

In the new Empire State Building which is being erected on the site of the old Waldorf-Astoria Hotel in New York City, the present plans call for 64 elevators. This building will be 86 stories high, the top reaching some 1100 feet (335 meters) above the sidewalk. This building will have a ground-floor area of 200'x425' (61 meters by 130 meters) and the tower which will start at the 30th floor will have a floor area of 133'x185' (40 meters by 56 meters). The tendency is for buildings of larger ground area and the ideal space is naturally a full block with frontages on 4 streets. This sort of area is very difficult to assemble, but it would be a surprise if the up-to-date promoter would not strive to attain such plots.

Mergers are the trend of the times with us. We witness the chain stores, the many combinations of large and small companies, businesses and corporations. And so it can be expected that real estate owners and builders will see the benefits to be derived from putting their interest together to make possible a more profitable operation. It will be found more advantageous for individual owners to merge their smaller plots and form combinations, and build on co-operative lines on plots of economic size, and thereby each individual in turn will derive a more profitable return from his property.

There is no wonder that architects, at first, were somewhat at sea how to treat this, then new type of housing and many odd looking structures, yes even monstrosities, were built. From the plain looking box with windows to the more ornate tower, there were innumerable styles.

In more recent years, the zoning laws effected in New York City have put certain restrictions on the shape and height of buildings. One of the most striking of these restrictions is the limitation in size of a tower to not more than 25% of the total lot area, but which may rise to an indefinite height as long as structural safety and economic conditions are satisfied.

Paris has achieved a wonderful harmony of structures, but we in the United States are limited by the law-making powers conferred. Zoning restrictions have been adopted by us in a number of instances, but legal means have not infrequently been found to break them when a builder discovered an economic necessity therefor. We are, however, approaching the day when buildings will be projected in a group plan. In New York City recently what is known as the "Rockefeller City" was designed to cover several city blocks, all the structures being planned to be architecturally harmonious. Similar schemes have been put forward with more or less success but upon a smaller scale. I have no doubt but the idea will be carried much further with us in the immediate future.

The American skyscraper is the result of the efforts to wed an economic necessity to a material design. But to criticize this design as something fundamentally ugly, as some of our critics would make it appear, is

merely begging the question. There is no interview more certain to be printed in America than one with an alien architect saying he thinks our skyscrapers are hideous. But I am happy to say that not many of them are so zealous of obtaining publicity as to subvert their honest convictions and their politer instincts.

Most foreign architects will concede that in the modern skyscraper America has contributed the most impressive and the most worth while style since the Renaissance. There are many eminent authorities to bear me out, and practically all the worth while architects in other countries have expressed their appreciation of the design of the American skyscraper. And I may safely say that this new style of Architecture, truly American, bids fair to become the pattern not only through the United States, but also to influence the modern European forms.

Of course there were some atrocious examples when we first began building tall structures. We acknowledge they were bad in design and ugly in appearance. So was the first mud hut of man.

Architectural designs is motivated by the qualities of the material from which it is the flower. Egypt had granite and as a result developed a distinctive architectural style. Heavy lintels and columns, massive and impressive, it expressed the properties of the stone from which it was constructed.

Greece had her marble and the chaste classical design came into being.

The Orient had her cedar and carved wood which made possible the pagoda.

The aspiring pinnacles of the Renaissance grew out of the soft limestone.

Steel was made commercially about a half a century ago. It is today ushering in a new era in architecture.

The strength, the plasticity, the durability, the perfect elasticity and the uniformity of steel enabled man to do with it what had never been done with a building material before. So accurately can the properties of a piece of steel be measured that we know exactly to what extent we can depend upon it before we place it into a structure. This cannot be done with any other material.

There is no material in commercial use so strong, nor one which will occupy so little space for the weight it will carry.

Thus—when we began carrying the walls on steel frames, architects were able to introduce a vertical line in the structure that had never before been possible. Also we were able to introduce a horizontal member of a strength that has made possible the elimination of supporting columns in theatres and large auditoriums.

Only within recent years have architects been ready to take full advantage of the physical qualities in steel and to utilize these properties in a new architectural design.

The best examples of skyscraper architecture have discarded the ornamental and make use of the vertical and horizontal line and the mass to give the structure a beauty that is just beginning to blossom forth in the leading American cities.

Architecture is truly artistic only when it does not deceive, and certainly a steel framed building is deceptive if it hangs a veneer of classical marble columns for a curtain wall. We have deserved that criticism where we failed to give true expression to the properties of that in which

we worked. When literary workers copy, they are accused of plagiarism. I wish it were possible to use as strong language to describe the appearance of some of the first skyscrapers, those of the style which are now being wrecked, demolished and removed to make way for a better and truer style of skyscraper architecture.

In 1931 we shall celebrate the fiftieth anniversary of the invention of rolled steel shapes and the erection of the first American skyscraper. Though possibly ugly at first, architects have attained such skill in using the material at their disposal that today this tall building architecture is universally held up as one of the great contributions to creative art.

Those of you who have visited the state and viewed the sky-line of New York as your ship moved up the Bay have undoubtedly been impressed by the courage of those who have dared to build so high. You who are yet to visit our shores I hope will look forward to that experience. Above all, however, I hope you steel constructors will not long permit us to enjoy the exclusive honor, but will take advantage of our experience and improve upon that which has already been tried and found expedient, economical and of unique architectural merit.

IS IT MASKED OPPOSITION TO G. G. BRIDGE PROJECT

"With each new project for a large bridge the old contest of ship against bridge is renewed and demands of the ship for greater clearance heights become more extreme," says Engineering News-Record.

"The project for a Hudson River bridge at Fifty-seventh Street, New York, and the Golden Gate bridge project at San Francisco, are the latest instances, following the Longview bridge case, in which the government authorities imposed a minimum clearance height of 195 ft. At New York a height of 200 ft. has been demanded by the War Department; at the Golden Gate the ship men ask for 250 ft. In part these demands merely mask opposition to any bridge whatever, but in part they represent beliefs that ships if given free scope will grow—like skyscrapers—beyond all present limits. Whether it is proper to encourage such unbounded growth, or whether bridges should be forced up to dizzy heights on idle future speculation, has never had conscientious consideration. If ship lock dimensions and railroad clearance diagrams were treated in such loose manner, much of the world's commerce would stop. There is evidence that the needs of the largest ships are far below the limit now mentioned, and that the extreme funnel or mast heights of a few vessels represent architectural fancy rather than service need. Some of the newest and greatest passenger vessels have lower funnels than smaller vessels of earlier date. Francis Lee Stuart showed recently, at the Fifty-seventh Street bridge hearing, that 150 ft. or even less represents the highest service necessity that can fairly be reasoned out of ship-construction conditions. Figures of this kind carry the clear implication that some of the recent shipping demands are fantastic and lack merit. They suggest also that a genuine inquiry into the height requirements of ships by a balanced tribunal of authorities would be timely. Unreasonable obstruction to bridge building benefits no one."

Illinois Supreme Court Rules Zoning Provisions Must Apply Impartially

An amendment to the zoning ordinance of Chicago changing the maximum street line height of buildings on lots having frontage on three streets from 264 to 440 ft., made six years after adoption of ordinance, after construction of from 60 to 70 buildings under the original ordinance, was in violation of the zoning statute of Illinois, requiring the city council, before enacting a zoning ordinance, to consider existing conditions, conservation of property values, direction of building development to best advantage to city, and the use to which the property is devoted at the time of the enactment of the ordinance, since the change in the maximum height would not only unreasonably impair value of buildings constructed under original ordinance, but would constitute the ex post facto confiscation of property rights without compensation.

This was the ruling of the supreme court of Illinois in the case of the Michigan Lake Holding Corporation vs. Eva H. Hamilton, et al (Nos. 20657-48-59), on appeal from the circuit court of Cook county.

In its concluding comment on the case the supreme court says:

"Any regulation or restriction placed upon property by virtue of the police power granted under a zoning statute, must be impartially applied as to all properties similarly situated. The few properties here affected under the amendatory ordinance are not so differently situated as regards surrounding open spaces, light, air, safety, congestion and other matters pertaining to the public welfare as to warrant establishing these properties as a class and give them freedom from restriction, whereby the street line height of buildings erected thereon might be 66 2/3 per cent higher than that which all other properties in the same volume district might have.

"In our opinion there is no merit in appellant's contention that denying him the right to erect a 60-story building upon his property will deprive him of property without due process of law. He and his property are under provisions and regulations of the original 1923 zoning ordinance of the city of Chicago and its lawful amendments, which have been the guiding hand in the construction of all other business buildings in the fifth volume district.

"We are of opinion the judgment of the trial court in revoking the building permit issued to Cuneo was correct, and the judgment will therefore be affirmed."

LICENSING LAW ADVOCATED BY LOUISIANA CONTRACTORS

Action has been taken by the Louisiana members of the Associated General Contractors to have a state law passed providing for licensing contractors. A special committee of the Shreveport Chapter has been appointed, according to the chapter secretary, B. D. Battle, which is to cooperate with the Central Louisiana Chapter in bringing the matter before the next state legislature. The committee consists of K. C. Wilson, Ashton Glassell and W. A. McMichael.

The measure advocated by the contractors provides for a board of examiners consisting of five members who will pass upon the eligibility of all contractors.

THE OBSERVER

What He Hears and Sees on His Rounds

New Yorkers who are just getting used to the Chrysler Building's domination of the mid-town skyline, where its silver spire pierces the sky 1045 feet above the street level, soon will be able to look down on the city from a platform almost 200 feet above that point. Former Gov. Alfred E. Smith, president of the company erecting the new Empire State Building, announces that plans have been changed to include a public observation gallery at the 1225-foot level. The building will rise to a total height of 1243 feet, almost a quarter of a mile above the street, an equivalent of 102 stories. It is scheduled to be completed by May 1, 1931.

The index number of wholesale prices computed by the Bureau of Labor Statistics of the U. S. Department of Labor shows a further decline in June. This index, which includes 550 price quotations weighted according to the importance of each commodity, stands at 86.8 for June, compared with 89.1 for May, 96.4 for June, 1929, and 100.0 for the year 1926. Based on these figures the purchasing power of the 1926 dollar was \$1.037 in June, 1929, and \$1.152 in June, 1930. Building materials also were noticeably lower than in May, prices of lumber, brick, cement, structural steel, and paint materials averaging well below those of the preceding month. Metals and metal products averaged lower, with declines in iron and steel and nonferrous metals, including copper, lead, silver, tin, and zinc.

Declining retail prices point to an early culmination of readjustment in general business, according to Gage P. Wright, New York business and investment counselor, writing in the current issue of the Business Economic Digest, who goes on to say that the upturn in the construction industry is another bright spot commanding more than ordinary interest.

"As might be expected," Wright says, "market analysis and economists are quick to recognize the favorable effect of the upward trend in the construction industry. The importance of this industry as a major influence upon general business activity can hardly be over emphasized. The great periodic increases or declines in the volume of construction influence to a marked degree the level of general business activity."

Salvation Army officials of Wenatchee, Wash., are planning to establish a soup kitchen for scores of men from Pacific Coast towns who have found there are no more jobs to be had on the Rock Island dam project of the Washington Electric Company.

This followed an announcement by the Wenatchee Welfare Association that "this city does not intend to maintain a soup kitchen to feed people who came here despite repeated warnings to keep away."

Washington Electric Company officials declared they have hired virtually all the men that will be needed to work on the Columbia river dam this year.

Highway construction, which is being expedited by the state in an effort to relieve unemployment conditions, is now three months ahead of schedule, Bert B. Meek, state director of public works, announces.

Approximately \$50,000,000 will be expended by the state on road and bridge building during the biennial period ending June 30, 1931, Meek said.

Of this amount contracts aggregating \$40,000,000, or 80 per cent of the total amount involved in the program, have already been let, although the biennium is only half over, Meek reported.

"We are expediting this work as quickly as possible and as fast as the funds are available," he declared. "This is being done for the sole purpose of relieving, to the limit of our ability, the unemployment problem."

There were only 21,276 unemployed persons in San Francisco at the time of the last census, according to unofficial, preliminary figures, released by the Federal Government.

This total, only slightly more than 2 per cent of the population as determined by the enumeration, is considered surprisingly low. In some other big industrial centers of the country, such as Toledo and Detroit, the unemployed have totaled nearly half the population, it was pointed out. In Toledo 47 per cent is the unemployment figure.

Preferential rates to applicants for loans for building or modernization of homes to reduce unemployment by speeding up construction are announced by a savings and loan association at Seattle. The concern offers to eliminate customary financing charges, including fees for appraising and preparing papers and also to reduce interest rates for the next few months.

"If all lenders of mortgage money will likewise offer special reduced rates on this class of loans hundreds of families could be persuaded to build more modern homes for their own use and thousands of men will be given employment during the coming fall and winter season," R. R. Hart, president of the loan association, said.

Despite the temporary let-down in building operations throughout the nation, Chicago will have completed or under construction 500 skyscrapers of 10 stories or more by the end of 1930, according to the Chicago Association of Commerce.

In the past 10 years, a survey by the association shows building costing \$500,000 or more each have been erected in the downtown area at a total cost of more than \$500,000,000. Of the structures in this group, eight have cost more than \$10,000,000 each. With several other big buildings being planned for construction between now and the World's Fair of 1933, it is expected that construction in Chicago's downtown area in the next three years will equal that of the past decade.

A tabulation of Chicago's present tall buildings show 391 of 10 to 20 stories each, and 67 of more than 20 stories.

Absent window reveals and rich black and white materials on the exterior, rather than ornamentation, will give New York its first "shadowless" office building with completion next May of the 41-story structure to stand on the southeast corner of Madison Avenue and Fortlieh Street.

Kenneth Franzheim is said to have struck more than one ultra-modern architectural note of extreme simplicity in his novel design for the structure. In contour, its 505-foot height will not vary greatly from other new business buildings in the midtown section although in aspect it will be conspicuously different.

"Entablatures, cornices, architraves, pediments and other ornamental features have no appropriate place in a tall, modern structure designed purely for business purposes," says Franzheim. "Originally, such classic features were intended primarily for casting shadows by which desirable light contrast could be produced in low, solid-masonry structures.

"For 22 East 40th Street, as the Houston Properties Corporation's new building will be known, we have a partee which depends entirely upon masses and portion in simple black and white building materials and not upon stylistic ornament.

"An effort has been made to effect striking results in the simplest possible manner through use of contrasting white enamel brick and black brick, albarene stone and black granite appropriately relieved with silver metal. These, to our conception, more fittingly represent the spirit of the modern office structure."

There will be no window sills in the building, the glass being flush with the exterior surface of the walls. Black spandrels, harmonizing with the dark exterior appearance of window glass and alternating with light piers, will accentuate the structure's height and slender grace.

Twenty-two East 40th Street is being built for the Houston Properties Corporation, through the 277 Madison Avenue Corporation, by Dwight P. Robinson & Company.

JADWIN DECLINES FEDERAL POWER COMMISSION POST

Coincident with a decision of President Hoover to send no nominations to the senate for confirmation until the treaty situation has cleared, the White House received informal reports that Lieutenant General Jadwin would not accept the chairmanship of the federal power commission.

Mr. Hoover announced recently the selection of General Jadwin and his nomination was one of those being withheld from the senate.

Although the general declined to discuss the reports, it was said he had received an attractive offer from civil life that he did not feel he could refuse. He was to have accepted the post for only six months to give the president the benefit of his experience as chief of army engineers.

After his selection was made public, several senators indicated they would oppose confirmation. Once the senate sets the time for voting upon the treaty it will be confronted with a number of nominations to be disposed of before adjourning.

Five members of the power commission and six members of the tariff commission are to be named by the president.

ALONG THE LINE

Walter Hibbard Seaver, 59, for twenty years Pacific Coast sales manager for the United States Steel Company at San Francisco, died July 13, following a heart attack.

Seaver, a native of Boston, came here many years ago from New York, after graduating from the Massachusetts Institute of Technology. His connections with the steel company extended over the past thirty years.

George J. Schwall, assistant city electrician of Stockton in charge of police and firm alarm systems, has been appointed acting city electrical inspector by W. B. Hogan, city manager. Schwall will occupy the position held by the late Frank G. Morrell, who died recently. Schwall has been employed by the city since November, 1924. J. S. Clay will continue as assistant electrical inspector.

R. F. Brown, construction engineer for the California Water Service Company, has been appointed manager of the Stockton branch of the company.

Brown succeeds H. K. Griffin, former president of the Stockton Chamber of Commerce, who has been promoted to the managership of the entire Northern California territory served by the company.

Brown, a civil engineer, is a graduate of Stanford University. He has been employed by the company since November, 1928, and just recently completed supervising construction of a 1,000,000,000-gallon reservoir near Clyde, known as the Chenery project.

Appointment of Leonard F. Starks, a member of the architectural firm of Starks and Plenders and Frank H. Reynolds, to the city board of examiners and appeal, provided by the municipal building code, is announced by James S. Dean, city manager of Sacramento.

Mr. Starks will become the architect-member of the board, taking the place Dean occupied before becoming city manager. Reynolds will become the structural engineer-member of the board, taking the place of M. W. Sahlberg, who has left the city.

The appointments are effective at once. The members serve without pay at the pleasure of the city manager. The function of the board is to settle controversies or disputes arising over the building code.

Carmel, Monterey County, does not contemplate hiring a new city engineer at present, but will hire an engineer when necessary for certain projects. This is the aftermath of action recently taken by the Carmel city council, when it declared the office of city engineer, held by Howard Severance, vacant.

PLANING MILL LEASED

E. R. Maule, Southern California mill man, and J. Earle Heber, former Pacific Coast manager of Truscon Steel Co., have leased the planing mill of the Los Angeles Investment Company in Los Angeles, and will engage in the general millwork business. The firm will be known as the Maule-Heber Company. Mr. Maule will be general manager in charge of plant operations and Mr. Heber will have charge of the sales. J. T. Williams will be superintendent of the mill.

TRADE NOTES

Paul J. Carriere will operate from 704 Larkin St., San Francisco, under the firm name of Rainbow Electric Co., according to articles filed recently with the county clerk.

Montgomery Lumber Co. and Yost-Linn Lumber & Finance Co. of Culver City have been merged and will operate as the Culver City Lumber Co. J. G. McKinney is president of the new company and Fred H. Yost and J. H. Montgomery are directors. W. F. Betts is yard manager. General offices will be located at 8817 Washington Blvd., Culver City.

Newspaper advertising can play a great part in assisting business through its present troubled waters in the belief of Theodore Watson, University of California Extension Division lecturer in economics.

"Advertising isn't meant to be seasonal from the standpoint of paying only this or that season," declares Watson. "Sustained advertising the year around builds a confidence that is not easily shaken. Steady trade built through advertising cannot be established through any other method."

TEST TO DETERMINE MOISTURE IN FLOORING

If new concrete or unsuspended floors are not thoroughly dried out, there are two simple yet dependable tests by which the presence of moisture can be determined. These tests have been developed by the Armstrong Cork Company in connection with the laying of corkbrick, cork tile and linoleum coverings over new floors, but they are equally practical wherever it is essential the floor be dried out before a final covering is put on or a waterproofing process applied.

The more sensitive and effective test to detect moisture in sub-floors is as follows: Place on a two-inch watch crystal a quarter-teaspoonful of anhydrous calcium chloride, which can be readily obtained at any drug store. Set the crystal on the floor and cover it with a five-inch clock crystal, imbedding the edges of this cover in soft putty spread in a five-inch circle around the watch crystal. It is important that the edges of the glass well imbedded in the putty to prevent any air reaching the calcium chloride. Within twenty-four hours any dampness in the floor will make the calcium chloride wet. If there is a considerable amount of moisture present, the chemical will dissolve.

A simpler but probably less accurate method consists of placing pieces of linoleum face down on the floor, weighting the edges, and allowing them to remain for twenty-four hours. Under ordinary circumstances the presence of any moisture in the flooring will be shown by dampness between the floor and the linoleum.

In making these tests, it is advisable, for conclusive results, to test several different portions of the floor, as one part of a large floor area may be dry while another is still damp. A new suspended floor usually becomes thoroughly dry in from two to four months, depending on climatic conditions.

HERE — THERE —
EVERYWHERE

A proposal to vote bonds of from \$200,000,000 to \$250,000,000 for the Metropolitan Water District's aqueduct from the Boulder Canyon Dam to Los Angeles and allied districts, may be placed on the November ballot if estimates of cost can be prepared in the meantime. Selection of a route will be made in August, according to reports from the southern city.

The Senate has adopted a resolution by Senator McNary, Republican, Oregon, directing the tariff commission under the new flexible provision to investigate costs of production of timber and lumber, including western fire, spruce, pine, hemlock and larch. Under the flexible clause if foreign costs are found to be lower than American by a margin greater than present duties, the rates may be increased by not more than 50 per cent, or lowered in case there is found to be too heavy protection.

The Santa Ana city council has issued orders to municipal building inspectors to deny building permits to contractors who cannot exhibit a state license. It is proposed to secure the co-operation of other municipalities in Orange County to enforce the state license law.

The Federation of Merchant Plumbers of Southern California, meeting at Santa Barbara, selected Santa Monica as the place for their meeting next year. Lou Remy is president of the federation. E. L. Cochran is secretary.

The first visible signs of turmoil in the Washington State Federation of Labor Convention at Spokane, Wash., arose over the fight of the proposed adoption of a resolution favoring the six-hour day and the five-day week. Three resolutions were introduced by different unions of the state. One asked for the six-hour day and five-day week, one for a five-day week with the eight-hour day, and the other for the five-day week with the nine-hour day.

The ultimate aim of these proposed resolutions was the relief of the unemployment situation.

MODERN HOMES

A survey of a number of representative small houses in thirty-one cities scattered throughout the United States which was recently completed by the division of building and housing, United States Department of Commerce, shows that English and pseudo English houses, featuring steeper roofs, are more popular in a great many parts of the country, but that Spanish and Italian types are preferred in the Southern and Western states.

PROTESTS FREIGHT RATES

A complaint has been filed with the Railroad Commission by the United Concrete Pipe Corporation against the Pacific Electric Railway and the Southern Pacific Company claiming unjust and unreasonable rates were charged by defendants on numerous carloads of sand shipped from Hewitt to Delano, Calif. Complainants ask reduction.

BULLETIN ON AIR SEASONING
OF WOOD

The sawmill owner with a stock of millions of feet of lumber in his yard and the farmer with a few hundred green fence posts will each find useful the facts in the new Government bulletin, "The Air Seasoning of Wood," just off the press. J. S. Mathewson of the Forest Products Laboratory, Forest Service, U. S. Department of Agriculture, is the author.

The new bulletin is based on the results of years of research conducted by the Forest Service at the Forest Products Laboratory, Madison, Wisconsin, and elsewhere. The bulletin outlines the basic principles of wood drying, and reports studies of the air seasoning of boards and planks, dimension stock, lath, crosssties, poles, posts, timbers, cordwood, cooperage, and veneer. The effects on coopership of climate, time of year, kind of wood, thickness of stock, locality of growth, yard location and arrangement, piling method, and other factors are discussed in detail.

While the supply lasts, this publication, Technical Bulletin No. 174-T, can be obtained free from the Department of Agriculture, Washington, D. C.

CLAY PRODUCTS MEET SET FOR
AUGUST 1-2

Representative of clay products industries throughout the Pacific Northwest are planning to attend the summer conference of the American Ceramic Society, Northwest Section, in Victoria, B. C., August 1 and 2.

A business and technical meeting Friday afternoon will be one of the outstanding events of the conference and will embody research reports, planning of future work of the society, and the reading of papers by professors of the University of Washington and University of British Columbia. A discussion of the general advancement made in the use of clay products in all types of building construction is anticipated also.

The modern trend toward creation of beautiful business structures and industrial buildings will be discussed by a building arts specialist of Victoria, according to announcements made by Prof. Hewitt Wilson of the University of Washington, and W. J. Howard, engineer-manager of the Pacific Northwest Brick & Tile Association, who are in charge of the program.

COLUSA COUNTY HOSPITAL
PLANS UNDER WAY

Otto Deichmann, San Francisco architect, is preparing plans for a new hospital to be erected for Colusa County. The structure will be one and two stories in height of reinforced concrete construction and will cost \$250,000.

The one-story unit will comprise a wing and the two-story section the administration building.

Only the first unit of the project will be undertaken at this time. This to have a capacity of 24 beds. The completed project will have a capacity of 100 beds.

The Standards Association of Australia is revising the Australian Electrical Wiring Rules and has requested a copy of the Electrical Safety Orders of the California Industrial Accident Commission.

POWER LINE AWARD

Miracle Construction Company of San Diego, has been awarded a contract by Electrical District No. 4 at Casa Grande, Ariz., to construct about 60 miles of new power lines to serve the district east of Casa Grande, including Eloy and Toltec sections. Bonds of \$250,000 voted to finance the work have been purchased by the contractors.

ARCHITECT CRIM LEAVES \$200,000
ESTATE

Leaving an estate of about \$200,000 to be placed in trust for the benefit of his widow, Mrs. Janita M. Crim, and a son, William C. Crim, 2295 Broadway, the will of William H. Crim Jr., San Francisco architect, was filed for probate last Wednesday.

Crim died July 12, this year, leaving a will dated June 25, 1926, in which a sister, Grace M. Crim, is named executrix. Income from the estate is to be divided between the widow and son, eventually to be distributed to the son.

Edmond Rising, business associate, is left Crim's office equipment and plans.

EXTENSIVE LUMBERING BY
McCLOUD COMPANY

Notwithstanding what the lumber men call a bad market, the McCloud River Lumber Company has been cutting an average of about 250,000 board feet of lumber daily for several weeks on the government land in the Modoc National Forest, near White Horse Camp. Two trains of logs leave the cutting area daily for the company's mills at McCloud. A considerable amount of cutting is also being done on the company's land, near the town of White Horse, in the extreme southwest corner of the county. The Long-Bell Lumber Company is carrying on extensive cutting in the northern end of the same western yellow pine belt.

ANCIENT LEASE

The following is a building lease translated from a stone tablet written about 1800 B. C.:

"The whole house, which is owned jointly by Awel-Sin, the judge, and Ilushu-Ibni, Sin-Iksham, the scribe, has rented from Awel-Sin and Ilushu-Ibni for one year. As the rent for one year he will pay five shekels of silver. He shall plaster the roof and strengthen the walls, the lessor will pay the expenses. As installment he has paid two shekels of silver."

From this it can be seen that the custom of requiring the lessor to keep the property in repair is at least 3729 years old.

PASADENA TO BEGIN CONSTRUCTION OF PINE CANYON DAM

The city of Pasadena has announced that it expects to start at once on construction of the proposed Pine Canyon dam for its water-supply project. This decision followed the filing of the final reports on the dam site by Dr. F. L. Ransome, of the California Institute of Technology, consulting geologist for the city, and L. C. Hill, consulting engineer, both of whom reported favorably on the adequacy of the site for the proposed structure, which will be 295 ft. above streambed. The city last year voted \$10,000,000 in bonds to finance the project.

WAGE INCREASE UNWARRANTED

General contractors of Tacoma, Wash., have deferred action on the petition of the Carpenters' Union for a wage raise. The builders feel that conditions at present do not justify any increase in building cost. The request of the Building Laborers' Union for explicit recognition is withheld insofar as it effects wage scales, although its members are given preference when help is needed.

BUILDING SURVEY VOTED

In order to have a complete survey of county building needs for the next ten years, the Fresno Board of Supervisors has voted \$550 to be paid experts of the California Taxpayers' Association for work on the survey. All county activities will be included in the survey.

A TREE OVER TREE

Those motoring north on the summer vacations may see the famous "tree over tree" on the property of Hans Jorgensen, about 7 miles north of Crescent City on the California Redwood Highway. One tree, estimated to be 2500 years old, grew up around and over a fallen redwood 2000 years old which is still sound. The fallen tree is 8 ft. in diameter and the standing tree is 11 ft. in diameter.

OPENS NEW PLANT

Idaho Pine Pole Co. has established a plant at Idaho Falls, Idaho, and is treating pine poles with creosote for power and telegraph companies in the Western states. The capacity of the plant is about 100 poles per day.

\$5,000,000 STEEL PLANT PROPOSED

Otis Steel Company of Cleveland, Ohio, announces plans for a \$5,000,000 expansion including the building of a new continuous rolling mill and a survey looking to the manufacture of alloy steel. Contracts for the mill are to be awarded shortly and work started within the next ninety days.

The program calls for extension of the present mill buildings and installation of three additional furnaces and of six stands of mills. The new mill will be equipped to produce 35,000 tons of material monthly.

SITE BIDS ASKED

Bids will be considered by the U. S. Treasury Department at Washington, August 19 to furnish the Federal Government with a site for the proposed \$450,000 post office to be erected in Stockton. A site in the center of the business district is desired by the post office officials. The price must not exceed \$245,000.

Mr. Ambrose B. McKenna, of the Commercial Engineering staff, Westinghouse Lamp Company, is making a special study of the business applications of ultra violet light in European countries, particularly Germany and France. His investigations are covering, primarily, the field of general lighting and the results obtained from the use of mild ultra violet sources in buildings and basements, tunnels, mines and all such properties from which sunlight is normally excluded. Ultra violet applications have progressed somewhat further abroad than in this country and the important possibilities in the development of a larger domestic market are encouraging this and similar studies. Mr. McKenna hopes to obtain considerable first-hand knowledge of the use of tungsten filament ultra violet sources in special glass bulbs.

Building News Section

APARTMENTS

Owner Takes Sub-Bids in One Week.
APARTMENTS Cost, \$175,000
OAKLAND, Alameda Co., Cal. Perkins and Van Buren Sts.
Six-story and basement steel frame
& brick apartments (60 apts.; 2-3-
and 4-rooms).
Owner and Builder—Harry Schuster,
2424 Curtis St., Berkeley.
Architect—Willis Lowe, 354 Hobart
St., Oakland.

Note—It was previously proposed to erect this structure at Lee and Grand Avenue, Oakland. The owner decided to erect a larger building and selected the new site.

Plans Being Completed.
APARTMENTS Cost, \$175,000
SAN FRANCISCO. NE Buena Vista Ave. and Waller St.
Six-story Class C basement and sub-basement apartments (36 2 and 3-room apts. and one 10-room apt.)
Owner—Suncal Investment Co.
Architect—Albert H. Larsen, 447 Sutter St., San Francisco.
Plans will be ready for figures in a few or ten days.

Contracts Awarded.
ALTERATIONS Cost, \$50,000
SAN JOSE, Santa Clara Co., Cal. W-Santa Clara Street.
Alter present building for three-story apartment house (46 rooms).
Owner—Paul Masson Building.
Architect—W. H. Weeks, Hunter-Du-lin Bldg., San Francisco; 1736 Franklin St., Oakland, and Bank of Italy Bldg., San Jose.
General Contract and Heating Contract—C. N. Swenson, Washington St., San Jose, general, \$50,574; heating, \$—.
Elevators—Spencer Elevator Co., 166 7th St., San Francisco.
Electric Work—Gilbert Bros., 286 W-Santa Clara St., San Jose, at \$1938.

Contract Awarded.
APARTMENTS Cost, \$90,000
REDWOOD CITY, San Mateo Co., Cal. Duane and Whipple Road.
Three-story and basement frame and stucco apartments (24 2 & 3-room apts.; concrete floor).
Owner—Mark E. Ryan, 231 Main St., Redwood City.
Plans by C. Schuetz, Old Mill Flower Shop Bldg., Redwood City.
Contractor—Russell & Duncan, 1202 Arugello St., Redwood City.

Owner Taking Segregated Figures.
APARTMENTS Cost, \$45,000
SAN FRANCISCO. SE 14th Ave. and Taraval St.
Three-story frame and stucco apts. (six 2-room and six 3-room apts.; brick basement).
Owner—Harry J. Rock.
Architect—Irvine & Ebbets, Call Bldg.

Sub-Bids Being Taken.
APARTMENTS Cost each, \$40,000
SAN FRANCISCO. W 25th Avenue S Cabrillo St.
Two three-story and basement frame and stucco apartments (six 2-room and six 3-room apts.)
Owner and Builder—Fred Anderson, 156 Granada St.
Architect—Irvine & Ebbets, Call Bldg.

Contract Awarded.
APARTMENTS Cost, \$37,500
SA FRANCISCO. Greenwich St. and Franklin St.
Three-story frame and stucco apartments.
Owner—Mrs. Sara Schwalbe, 1597 Greenwich St.
Plans by Builders.
Contractor—Laughlin Const. Co., 1770 Pine St.

Sub-Bids Being Taken.
APARTMENTS Cost, \$125,000
OAKLAND, Alameda Co., Cal. No. 764 Walker Avenue.
Eight-story steel frame and brick apartments and garage (six-story apartments and two-story garage) (36 two and three-room apts.; garage to accommodate 30 automobiles).
Owner and Builder—Thos. D. Fisher, 2851 23rd Ave., Oakland.
Engineer—Cooks & Hill, 1448 Webster St., Oakland.

Structure will have brick and terra cotta exterior; mechanical ventilation in baths; steam heating system; hardwood floors throughout.

Plans Complete.
APARTMENTS Cost, \$125,000
SAN FRANCISCO. 25th St. and Park Oaks.
Six-story steel frame and concrete apartments (36 2- & 3-room apts.)
Owner and Builder—V. Guilles, 1203 Guerrero St.
Plans by Owner.
Project will go ahead as soon as financing arrangements have been completed.

To Be Done By Day's Work.
APARTMENTS Cost, \$25,000
SAN FRANCISCO. Page and Cole Sts.
Three-story and basement frame and stucco apartments (12 apts.)
Owner and Builder—Stein & Krieg, 754 30th Ave.
Plans by P. Krieg, 134 19th Ave.

BONDS

MARTINEZ, Contra Costa Co., Cal.—Oak Grove School District defeats proposal to issue bonds of \$20,000 to finance auditorium and classroom addition to the present school. It is probable that the trustees will levy a direct tax to finance the construction.

A Demonstration of the SKILSAW PORTABLE ELECTRIC HAND SAW

Will solve your cutting problems.
(Four Models, 1/2 to 1 h. p.)

ELECTRIC HAMMERS ELECTRIC DRILLS GRINDERS, BUFFERS

PETER H. NELSON

Labor Saving Portable Electric Tools.

1222 Mission St.
San Francisco

Underhill
1267

VINELAND, Kern Co., Cal.—Election will be held August 4 in Vineland School District to vote bonds of \$12,000 to finance school improvements. Trustees of the district are: J. E. Michaels, John Francis and A. J. Fowler.

CHURCHES

Plans To Be Prepared.
CHURCH Cost, \$14,000
GILROY, Santa Clara Co., Cal. Church building.
Owner—Presbyterian Church Congregation, Rev. M. M. Ki'patrick, pastor, Gilroy.
Architect—Not Yet Selected.
Of the \$14,000 required for construction, \$12,000 has already been raised to finance the building.

Plans Being Prepared.
CHURCH Cost, \$15,000
SANTA CRUZ, Santa Cruz Co., Cal. One-story frame and stucco church (1st unit).
Owner—Church of the Nazarene (Rev. E. F. Dunn, pastor), 51 Cayuga St., Santa Cruz.
Plans by Mr. Crewdson, Oakland.

FACTORIES AND WAREHOUSES

Contract Awarded
DRYER, ETC. Cost, \$—
VISALIA, Tulare Co., Cal.
One-story reinforced concrete dryer and storage building (100x28 ft.)
Owner—Knudsen Creamery Co., 1965 Santee St., Los Angeles.
Architect—Train & Cressey, Western Mutual Life Bldg., Los Angeles
Contractor—L. C. Clark, Visalia.

Steel Tank Contract Let.
PLANT Cost (1st unit), \$500,000
PITTSBURG, Contra Costa Co., Cal. Twenty-acre site available.
Refractories plant.
Owner—Stockton Fire Brick Co., Russ Bldg., San Francisco.
Engineer—K. Theill, 580 Market St., San Francisco.
Steel Tank—Chicago Bridge and Iron Works, Rialto Bldg., San Francisco. Tank will be on 105-foot tower and of 30,000-gal. capacity. Modern equipment will be installed including a continuous car tunnel kiln. There will be considerable steel work involved.

Sub-Contracts Awarded.
LABORATORY Cont. price, \$65,000
SAN FRANCISCO. N Fall Street bet. Van Ness Ave. and Polk St.
Three-story and basement reinforced concrete and brick offices and laboratory.
Owner—The Viavi Co., Van Ness Ave. and Market St.
Architect—Willis Polk Co., 277 Pine Street.
Contractor—Barrett & Hilp, 918 Harrison St.
Lumber—J. H. McCallum Lumber Co., 748 Bryant St.
Structural Steel—Judson - Pacific Co., 609 Mission St.
Reinforcing Steel and Steel Pans—Soule Steel Co., Rialto Bldg.
As previously reported, excavation awarded to Granfield, Farrar & Carlin, 67 Hoff St.

Contract Awarded.
INDUSTRIAL BLDG. Cost, \$15,000
SAN JOSE, Santa Clara Co., Cal.
 Virginia and Fourth Sts.
 Industrial building.
 Owner—Barron Gray Packing Co.,
 Fifth and Martha Sts., San Jose
 Architect—Chas. S. McKenzie, Twohy
 Bldg., San Jose.
 Contractor—Magna & Newell, Bank
 of Italy Bldg., San Jose.

Sub-Contracts Awarded
ADDITION Cost, \$25,000
WATSONVILLE, Santa Clara Co., Cal.
 Wall and Walker Streets.
 Reinforced concrete and galvanized
 iron packing house addition.
 Owner—T. J. Morgan Co., Premises.
 Plans by Mr. Renfrow.
 Contractor—Jack Renfrow, Watson-
 ville.

Furnishing Machinery—Link-Belt Co.,
 400 Paul Ave., San Francisco.
Electric Equipment—Just-Rite Elec.
Co., Watsonville.
Plumbing and Fire Equipment—P. J.
Fredermuth Co., Watsonville.

Planned.
REFINERY Cost, \$12,000,000
TORRANCE, Los Angeles Co., Cal.
 Refinery (1000 acre site).
 Owner—General Petroleum Corp.,
 Higgins Bldg., Los Angeles.
 Engineer—Engineering Dept. of Owner

Completing Plans.
SERVICE BLDGS. Cost, \$38,000
AUBURN, Placer Co., Cal.
 One-story brick and concrete service
 group (auto shed, warehouse
 building and yard improvements).
 Owner—Pacific Gas & Electric Co.,
 245 Market St., San Francisco.
 Plans by Eng. Dept. of Owner.
 Bids will be taken in about two
 weeks.

Contract To Be Awarded.
LOADING PLANT Cost, \$37,669
LIVERMORE, Alameda Co., Cal.
 Reinforced concrete washing, screen-
 ing and loading plant.
 Owner—Kaiser Paving Co., 1522 Lath-
 am Square Bldg., Oakland.
 Engineer—L. H. Nishikien, 525 Market
 St., San Francisco.
 Contractor—Schuler & McDonald, 1723
 Webster St., Oakland.

Contract Awarded.
LABORATORY Cost, \$112,940
PHOENIX, Arizona. McDowell Rd.
 and Tenth St.
 First unit of medical research labora-
 tory (U-shaped masonry struc-
 ture; 200x70 ft.)
 Owner—Wm. C. Cranow.
 Landscape Architect—Ralph D. Corn-
 nell, 3723 Wilshire Blvd., Los
 Angeles.
 Contractor—T. L. Weatherford, 119
 N. First Ave., Phoenix.

Plans Being Figured—Bids Close July
25, 2 P. M.
HANGAR Cost, \$6500
WATSONVILLE, Santa Cruz Co., Cal.
 Corrugated iron and frame hangar (80
 by 100 ft.)
 Owner—Watsonville Airport Company.
 Architect—A. W. Story, Pajaro Val-
 ley Bank Bldg., Watsonville.

Contract Awarded.
ALTERATIONS Cost, \$7432
EMERYVILLE, Alameda Co., Calif.
 45th, Hollis and Holden Sts.
 Alterations and additions to ware-
 house.
 Owner—Pacific Gas & Electric Co., 215
 Market St., San Francisco.
 Plans by Eng. Dept. of Owner.
 Contractor—Emil Person, 829 San
 Louis Road, Berkeley.

STOCKTON, San Joaquin Co., Cal.
 —Warehouse of John Witney, Inc.,
 destroyed by fire July 17 with loss of
 \$10,000 including machinery and min-
 ing material stored. Loss is partially
 covered by insurance.

Contract Awarded.
WAREHOUSE Cont. Price, \$23,660
 including equipment.
LIVE OAK, Sutter Co., Cal.
 One-story and basement concrete
 warehouse and processing plant
 (120x90 ft.)
 Owner—Walnut Growers Assn. (N. F.
 Todd, President), Live Oak.
 Architect—Albert C. Martin, Higgins
 Bldg., Los Angeles.
 Contractor—John J. Cavanagh,
 Stockton.

Following is a complete list of bids
 received:
 Fred F. Anglade, Yuba City, \$22,799
 John J. Cavanagh, Stockton, 23,660
 Campbell Constr. Co., Sacto, 24,225
 Matthews Constr. Co., Sacto, 26,320
 E. H. Riley, Stockton, 27,737

Owner Taking Bids.
PLANT Cost, 1st unit, \$50,000
SAN JOSE, Santa Clara Co., Calif.
 Berryessa Road (15-acre site).
 One- and two-story reinforced concrete
 meat packing plant and one- and
 two-story reduction plant of gal-
 vanized and brick construction.
 Owner—Continental Packing Co., Ltd.,
 (represented by W. H. Lehrback
 and Geo. F. Cokely, 1217 Park Ave.
 San Jose).

Architects—Lescher & Mahoney, Phoe-
 nix, Arizona.
 Note—Plans for the plant proper
 were prepared by Lescher and Ma-
 honey. Plans for the reduction plant
 were prepared by W. W. Lehrback of
 the owner's engineering department.
 The reduction unit will cost between
 \$2,000 and \$5,000.

Plans Being Completed.
EXTENSIONS Cost, \$—
SAN FRANCISCO. Mills Field Muni-
cipal Airport.
 Owner—City & County of San Fran-
 cisco S. J. Hester, Secretary,
 Board of Public Works.
 Engineer—Eng. Dept. of Board of
 Public Works, 3rd Floor, City
 Hall, San Francisco.

Bids Held Under Advice.
WAREHOUSE Cost, \$5500
SAN JOSE, Santa Clara Co., Cal.
 One-story frame and stucco offices
 and warehouse.
 Owner—Williams and Russo, Fourth
 and Virginia Sts., San Jose.
 Architect—Herman Krause, Bank of
 San Jose Bldg., San Jose.

PITTSBURG, Contra Costa Co., Cal.
 —Anchor Post Fence Co. of Calif.,
 460 Fifth St., San Francisco, awarded
 contract at \$11,000 by Shell Chemical
 Co., San Francisco, to furnish and
 install a 6-foot chain link fence to
 enclose Nitrogen Fixation Plant.

Contract Awarded.
LABORATORY Cost, \$1,000,000
 including equipment
LOS ANGELES, Cal. No. 6920 Santa
Monica Blvd
 Two-story Class A steel frame and
 brick film laboratory (150x135 ft.)
 Owner—Craff Films, Inc.
 Plans by H. A. McMurphy, 6347
 Eleanor Ave., Los Angeles.
 Contractor—H. A. Murphy.

Permit Applied For.
REPAIRS Cost, \$6500
STOCKTON, San Joaquin Co., Calif.
 18 N. Wilson Way.
 Repair fire damage.
 Owner—Fisher Brothers Milling Co.,
 premises.
 Architect—None.

TRACY, San Joaquin Co., Cal.—
 Hay warehouse of Fablan & Fields
 destroyed by fire July 17. Loss esti-
 mated at \$16,000 including contents,
 partially covered by insurance.

GARAGES AND SERVICE STATIONS

Bids Opened—Held Under Advice.
SALES BLDG. Cost, \$20,000
NEWMAN, Stanislaus Co., Cal.
 One-story rickb auto sales and service
 building.
 Owner—Thomas Rose.
 Architect—H. G. Bissell, 421 E Miner
 St., Stockton.

OAKLAND, Cal.— See "Apart-
 ments," this issue. Apartment and
 garage building for Thos. D. Fisher.

GOVERNMENT WORK AND SUPPLIES

Bids To Be Asked Shortly.
GATES, ETC. \$17,000 Available.
SAN FRANCISCO. Presidio (Nation-
al Cemetery).
 Granite and bronze gates, urns, etc.,
 at entrance to National Cemetery.
 Owner—United States Government
 Architect—Constructing Quartermas-
 ter, Fort Mason, San Francisco.

Plans Approved.
ADDITION Cost, \$14,000
SAN FRANCISCO. Presidio.
 Addition to Nurses' Dormitory.
 Owner—U. S. Government.
 Architect—Constructing Quartermas-
 ter, Fort Mason.

BLAINE, Wash.— Until August 26,
 3 P. M., bids will be received by Su-
 pervising Architect, Treasury Depart-
 ment, Washington, D. C., to erect U.
 S. Customs and Immigration Inspection
 Station Buildings at Pacific Highway
 Site and Peace Arch Site at Blaine,
 Wash. Deposit of \$15, required for
 plans obtainable from above.

Bids Opened.
POST OFFICE Cost, \$—
PRESCOTT, Arizona.
 Three-story and basement fireproof
 (brick, stone and terra cotta
 facing) Post Office and Court-
 house

Owner—United States Courthouse.
Architect— Supervising Architect,
 Treasury Department, Washing-
 ton, D. C.
Low Bidder— Robt. E. McKee, Central
 Bldg., Los Angeles, and El Paso,
 Texas, bid of \$207,200 exclusive of
 elevator.

McKee submitted an alternate bid
 of \$206,700, substituting architectural
 terra cotta for all stone work above
 the first floor level.

SAN DIEGO, Cal.— Until 11 A. M.,
 August 15, bids will be received by
 the Public Works Office, 11th Naval
 District, San Diego, for repairs to
 auxiliary boiler at the Naval Operat-
 ing Base (Fuel Depot), San Diego.
 Spec. N. 6255. The work will consist
 of removal of existing top sheet, sub-
 merged crown sheet, tubes, breeching
 and approx. 16 ft. of upper part of
 steel stack and replacing with new
 parts. Plans obtainable from the Pub-
 lic Works Officer, San Diego, upon de-
 posit of \$10.

Commissioned To Prepare Plans.
OFFICE BLDG. Cost, \$2,800,000
SAN FRANCISCO. Civic Center.
 Four-story and basement Class A
 Federal Office Building.
 Owner—U. S. Government.
 Architect—Arthur Brown, Jr., 251
 Kearny St.

SAN DIEGO, Cal.—Until 11 A. M., August 7, bids will be received by the Public Works Office, 11th Naval District, San Diego, for weatherproofing doors and windows of Quarters A at the radio station, Point Loma. Spec. No. 6224. The work includes caulking all window and exterior door frames, metal weather stripping, metal threshold, etc. Plans obtainable from the Public Works Office, San Diego, upon deposit of \$10.

MERCED, Merced Co., Cal.—Until August 18, bids will be received by U. S. Treasury Department to furnish site for proposed postoffice building. An appropriation of \$150,000 is available for the site and building.

SACRAMENTO, Cal.—Until August 1, 3 P. M., under Order No. 2233-1670, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver following lumber, S&S:
24 ft. (2 pcs.) Spruce, 1x12-in. by 12-ft. No. 1, clear;
60 ft. (5 pcs.) Pine, 3/4x12-in. by 12-ft. No. 2, clear or better;
120 ft. (10 pcs.) Pine 1x12-in. by 12 ft. No. 2, clear or better;
67 ft. (10 pcs.) Pine, 1x4-in. by 20 ft. No. 2, clear or better;
8000 ft. (500 pcs.) 1x12-in. by 18 ft. No. 3 Common Pine, rough.
Further information obtainable from above office.

Additional Sub-Contracts Awarded.
SHELL HOUSES Cost, \$160,000
MARE ISLAND, Calif. Mare Island Navy Yard.
Six one-story reinforced concrete shell houses and extension to railroad. Owner—U. S. Government.
Architect—Bureau of Yards & Docks, Navy Dept., Washington, D. C.

Contractor—MacDonald & Kahn, Financial Center Bldg.
Roofing—Malott & Peterson, 3221 20th St., San Francisco.
Reinforcing Steel—Truscon Steel Co., Call Bldg., San Francisco.
Masts—Pacific Pipe Co., 201 Folsom St., San Francisco.
Lightning Protectors—W. B. Baker & Co., 270 6th St., San Francisco.

As previously reported, glass awarded to Tyre Bros Co., 666 Townsend St., San Francisco; painting to Aristo Painting Co., 473 Bryant St. San Francisco; miscellaneous iron work to Fair Mfg. Co., 617 Bryant St., San Francisco; railroad track work to Warden & Forsyth; excavation to W. MacDonald, 1118 D St., Sacramento.

SAN DIEGO, Cal.—Until 11 A. M., August 7, bids will be received by the Public Works Office, 11th Naval Dist., San Diego, for replacement of face timbers of coaling wharf and approach at the Naval Operating Base (Fuel Depot), San Diego. Spec. No. 6102. Work will consist of removal of all existing guard and face timbers along both sides of coaling wharf and approach thereto; clean and paint structural steel girders; contact with face timbers; replace existing face and guard timbers, except for 60 lin. ft. of face timbers and 360 lin. ft. of guard timbers, to be replaced with new material; provision and installation of new wood blocks under the guard timbers, and reconnect existing fender piles of new timbers. Capt. Geo. A. McKay, Public Works Office. Ten dollar deposit for plans.

SAN FRANCISCO—Until July 29, 10 A. M., under Schedule No. 928-31-10, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver 2000 ft. rubber water hose, 3/4-inch, 3-ply, heavy duck wrapped, in 50 ft. lengths with cast brass couplings. Further information obtainable from above.

Plans Being Figured—Bids Close July 29, 11 A. M.
PAINTING BLDGS. Cost, \$—
SAN FRANCISCO. Presidio.
Interior painting of laundry building No. 24 at Letterman General Hospital.
Owner—United States Government.
Architect—Constructing Quartermaster, Fort Mason, Presidio.
Specifications obtainable from Constructing Quartermaster.

SAN FRANCISCO—Until July 29, 10 A. M., under Schedule No. 928-31-10, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver 50 coils of Manila rope, 3-strand, 1 coil 2-in., 5/8-in. dia.; 10 coils 2 1/2-in. 13/16 in. dia.; 9 coils 3-in. 1-in. dia.; 18 coils 3 3/4-in. 1 1/4-in. dia.; 1 coil 4-in. 1 1/2-in. dia.; 3 coils 5-in. 1 5/8-in. dia.; 4 coils 6-in. 2-in. dia.; 4 coils 7-in. 2 1/4-in. dia. and 3 coils 8-in. 2 3/4-in. dia. Also 10 coils Manila spun yarn rope, 3-yarns or strands, in 25 to 30-lb. coils. Further information obtainable from above.

SAN FRANCISCO—Until August 1, 11 A. M., bids will be received by Constructing Quartermaster, Ft. Mason, to enclose part of main corridor No. 36 at Letterman General Hospital. Specifications obtainable from above office.

STOCKTON, San Joaquin Co., Cal.—Bids are being received by Supervising Architect, Treasury Department, to be opened August 19, to furnish site for proposed 150,000 post office. The structure will be located in the center of the business district. The site cost must not exceed \$245,000.

WASHINGTON, D. C.—Bids are being received by Bureau of Supplies and Accounts, Navy Department, Washington, D. C., to furnish and deliver miscellaneous supplies and equipment as noted in the following schedules, further information being available from the Navy Department Officer, 100 Harrison St., San Francisco:

Bids Open August 5

Mare Island, 200,000 lbs. dry oxide, sch. 3782.

Puget Sound, 190 valve-grinding compound, sch. 3784.

Mare Island, 450 gals. bituminous primer and 140,000 lbs. bituminous enamel, sch. 3755.

Western yards, lacquer, spar, water resisting, interior and aluminum varnish, sch. 3795.

Western yards, burrs, rivets and nonferrous washers, sch. 3799.

Mare Island, 70,100 lbs. sheet steel, sch. 3811.

Mare Island, 13,000 lbs. sweeping compound, sch. 3781.

Mare Island, 600,000 lbs. paving asphalt, sch. 3793.

Puget Sound, 4900 lbs. lump rosin; Puget Sound, 400 gals. turpentine, sch. 3794.

San Diego, 1 truck chassis and 1 road oil unit, sch. 3804.

Eastern and Western yards, acetone, ammonia, ammonium borax, silver nitrate, bicarbonate sodium, mercury, and calcium phosphid, sch. 3798.

Bids Open August 12

Western yards, brass and steel machine and wood screws, sch. 3812.

HALLS AND SOCIETY BUILDINGS

Plans Being Prepared.
ALTERATIONS Cost, \$—
OAKLAND, Alameda Co., Cal. No.

732 Fourteenth St.
Alterations and additions to Jewish Community Center.
Owner—Jewish Federation, Premises.
Architect—W. E. Schirmer, 700 21st St., Oakland.
Plans will be ready for figures in two weeks.

Complete Bid Listing—Bids Under Advisement Until July 28.
MEMORIAL HALL Est. cost, \$85,000 (exclusive of furnishings)
EUREKA, Humboldt Co., Cal. H. St., bet Tenth and Eleventh Sts.
One-story and basement concrete Veterans' Memorial Hall (140x98 ft.)
Owner—County of Humboldt, Fred M. Kay, County Clerk, Eureka.
Architect—Newton Ackerman, 102 W. Fourth St., Eureka.

Following is a complete list of bids received, bidders on general contract were previously reported:

General Contract
Mercer-Fraser Co., Eureka.....\$77,875
J. L. McLaughlin, S. F.....\$1,800
Barrett & Hilt, S. F.....\$2,499
F. J. Maurer & Son, Eureka.....\$3,995
O. S. Almie, Arcata.....\$9,356
C. Bloomquist, Arcata.....\$0,163
L. Halvorsen, Santa Rosa.....\$0,500
David Paganini, S. F.....\$7,732

Steam Heating
Frank E. Cook & Son, Eureka.....\$5534

Hot Air Heating
Harris Sheet Metal Shop, Eureka.....\$2670

Plumbing
Moore & Cook, Eureka.....\$3177
Frank E. Cook & Son, Eureka.....\$343

Electrical Work
Eureka Electric Co., Eureka.....\$1747
Home Electric Co., Eureka.....1949
Dolson Electric Co., Eureka.....2350

Contract Awarded. Cost, \$125,000
BUILDINGS

LOS ANGELES, Cal. Beverly Blvd. and Layton Drive, Westwood Hills Group of frame and stucco, brick and concrete buildings.

Owner—Urban Military Academy, 637 N. Wilcox Ave., Hollywood (E. J. MacDonald, president).

Architect—Harrison B. Travers, 315 Union Insurance Bldg., Los Angeles.

Contractor—Arthur B. Weber, 311 Union Insurance Bldg., Los Angeles.
Work will include dormitory and administration building, classroom, dining hall, kitchen and office suites, gymnasium, swimming pool, filtration plant, stables, and service outlying.

Sub-Contracts Awarded. Cost, \$65,000
MEMORIAL BLDG.

EMERYVILLE, Alameda Co., Calif. Salem St. bet. 43rd and 45th Sts.
Two-story reinforced concrete Veterans' Memorial Building.

Owner—County of Alameda.

Architect—H. H. Meyers, Kohl Bldg., San Francisco.

Contractor—E. T. Leiter & Sons, 811 37th St., Oakland.

Excavation—Ariss-Knapp Co., 961 41st St., Oakland.

Reinforcing Steel—Gunn, Carle & Co., 444 Market St., San Francisco.

Ornamental Iron—Pacific Iron Works, 1155 67th St., Oakland.

Structural Steel—Herrick Iron Works, 18th and Campbell Sts., Oakland.

Brick—Tom Beebe, 1650 Tyler Street, Oakland.

Mill Work—Oakland Planing Mill Co., 2nd and Washington Sts., Oakland.

Wire Fence—Standard Fence Co., 60th and Lowell, Oakland.

Plaster—C. H. Burnett, 865 32nd St., Oakland.

Sheet Metal—East Bay Metal Co., Electric Work—Spott Electric Co., 2095 Broadway, Oakland.

Plumbing and Heating—A. Feldhammer, 1004 Park St., Alameda.

As previously reported, concrete awarded to J. H. Fitzmaurice, 354 Hobart St., Oakland.

General Contract Bids Rejected—Electric Contract Awarded.

CLUB BLDG. Cost, \$—
MOUNTAIN VIEW, Santa Clara Co.
Two-story reinforced concrete club building.

Owner—American Legion, Mt. View.
Architect—Alex. A. Cantin, 544 Market St., San Francisco.

Three low bidders under the previous bid call were:

Young & Horstmeier, San Francisco \$27,931; \$1960.

The Minton Co., Mt. View, \$28,149; \$2293.

N. Darrah, Mt. View, \$28,530; \$—.

The general contract is being figured by local contractors, bids to be in July 30, 8 P. M.

Electrical Work—Valley Electric Co., 273 Castro St., Mt. View, at \$1125

HOSPITALS

Contracts Awarded.
LABORATORY Cost, \$—
SAN FRANCISCO. Sutter and Scott Streets.

One-story brick addition to laboratory building.

Owner—Mt. Zion Hospital, premises.
Architect—Arthur Brown, Jr., 251 Kearny St.

General Contract—Barrett & Hilp, \$17,410.

Bridge Work—Judson-Pacific Co., \$1,591.

Bridge Covering—H. H. Robertson Co., 629 Howard St., \$948.

Plumbing and mechanical and electric work contracts will be let in a few days.

Sketches Prepared.
ALTERATIONS Cost, \$—
OAKLAND, Alameda Co., Cal.

Alterations and changes to reduce fire hazards in County Dentention Home.

Owner—County of Alameda.

Architect—Henry H. Meyers, Kohl Bldg., San Francisco.

Bids To Be Called For In Two Weeks.
COTTAGE Cost, \$20,000
SACRAMENTO, Sacramento Co., Cal.

Suterville Road (Sacramento Orphanage and Children's Home).

One 2-story frame cottage and one-story brick laundry, 28x60 ft., and boiler room.

Owner—City of Sacramento.

Architect—Dean and Dean, California State Life Bldg., Sacramento.

Cottages will contain dining room, kitchen, porch, laundry, bedroom, sewing room and living room on the first floor and two dormitories, four dressing rooms, two bathrooms and quarters for the house mother, on the second floor. Previous report was that plans were being prepared for two cottages.

Plans Being Prepared.
HOSPITAL Cost, \$250,000
COLUSA, Colusa Co., Calif. County Hospital Grounds.

One- and 2-story reinforced concrete hospital (1-story wing and 2-story administration building).

Owner—County of Colusa.

Architect—Otto Delichmann, 110 Sutter St., San Francisco.

Only the first unit, having a 24-bed capacity, will be undertaken at this time. The structure, when completed, will have a capacity of 100 beds.

LAS VEGAS, Nevada.—E. C. Keelen president of the Boulder Nevada Holding Company, announces he represents five Los Angeles capitalists planning to finance erection of a 125-bed capacity hospital to be operated in conjunction with the Boulder Dam project. U. S. Reclamation Bureau is said to have agreed to accept facilities of-

fered if an emergency hospital is established at the dam.

Additional Sub-Contracts Awarded.

HOSPITAL Cont. price, \$341,650
PALO ALTO, Santa Clara Co., Calif.

On State Highway north of Palm Drive.

Four-story reinforced concrete hospital (100-bed capacity).

Owner—City of Palo Alto.
Architect—Reed and Corlett, Oakland Bank Bldg., Oakland.

Contractor—K. E. Parker, 135 South Park, San Francisco.

Linoleum—W. & J. Sloane, 224 Sutter St., San Francisco.

Rock—Hutchinson Co., 1415 Harrison St., Oakland.

Sand and Gravel—Peninsula Bldg. Material Co., Palo Alto.

Elevator and Plumbing Contracts Awarded.

ADDITION Cost, \$—
REDWOOD CITY, San Mateo Co., Cal.

County Hospital grounds at Berseford.

Three-story reinforced concrete wing addition to county hospital.

Owner—County of San Mateo, Elizabeth M. Kneese, County Clerk.

Architect—Will H. Toepke, Call Bldg., San Francisco.

Contractor—Sorensen & Haggmark, 2562 Harrison St., San Francisco.

Elevators—Pacific Elevator & Equipment Co., 40 Rausch St., S. F.

Plumbing—Scott Co., 243 Minna St., San Francisco.

Additional Sub-Contracts Awarded.

ADDITION Cost, \$650,000
SAN FRANCISCO. Fell St. and Baker Street.

Addition to present class A hospital.

Owner—Southern Pacific Railroad Co., 65 Market St.

Architects—Alfred I. Coffey and Martin J. Rist, Phelan Bldg.

Contractor—Barrett & Hilp, 918 Harrison St.

Plastering—J. F. Smith, 271 Minna St.

Mill Work—Anderson Bros. Planning Mill Co., Quint and Custer Sts.

Ornamental Iron—Seipel Ornamental Iron Works, 1079 Folsom St.

Lumber—Rolando Lumber Co., Fifth and Berry Sts.

Structural Steel—Eyer Bros., 17th and Kansas Sts.

Reinforcing Steel—Pacific Coast Steel Corp., 215 Market St.

Steel Pans—Steel Form Contracting Co., Monadnock Bldg.

LOS ANGELES, Cal.—Supervisor Sidney Graves reports that the Board of Supervisors will advertise for bids this week on eight contracts for the completion of the new Los Angeles County General Hospital buildings.

Contracts for which advertisements will be issued this week include (1) fixed equipment, (2) hollow metal work, (3) lockers, (4) ornamental metal work, (5) painting, (6) show cases, (7) terrazzo work, and (8) tile work. Plans for these contracts will not be available for several days or until advertisements are officially authorized, at which time further announcement will be made.

Other contracts for completing the general hospital building for which the board of supervisors will advertise for bids in the next few weeks include carbon dioxide equipment, carpentry and mill work, carts, cement finish, dish washing machines, electric clocks, filing cases, heavy duty ranges, heavy shelving, high pressure refrigeration, kitchen equipment, lathing, lawn sprinkler system, library stacks, light duty gas ranges, heating fixtures, linoleum, low pressure refrigeration, meat trucks, paving, plastering, scales, shades, sheet metal equipment, steamers and ket-

tles, tables, time card racks, wire enclosures, wire fencing and X-ray developing equipment. Bids will be received during September and October. Specifications for the work have been revised by Architects Edwin Bergstrom, Myron Hunt, Sumner Hunt, Pierpont Davis and Wm. Richards in conjunction with County Architect Karl Muck.

HOTELS

Plans Being Refigured.
HOTEL Cost, \$100,000
WASHOE, Washoe Co., Nev. NE Second and Chestnut Sts.

Six-story and basement steel frame and brick hotel.

Owner—Abe Zetcooney, Reno.

Architect—George A. Ferris and Son, Cladianos Bldg., Reno.

Lessee—Jos. Bulasky, Reno.

Bids on this project ran slightly higher than anticipated and will be refigured. Contractors figuring on the project are:

Barrett & Hilp, San Francisco.

Lindgren & Swinerton, San Francisco.

K. E. Parker Co., San Francisco.

Roush & Beiz, Reno.

J. C. Pillard, Reno.

Walker Boudwin, Reno.

Anderson & McShee, Winnemucca, Nevada.

Preliminary Plans Being Prepared.
HOTEL Cost, \$150,000
REDLANDS, San Bernardino Co., Cal.

State and Orange Sts.

Two-story reinf. concrete hotel.

Owner—Arthur Gregory.

Plans by Perrine & Renfro, Lincoln Bldg., Los Angeles.

Contractor—Frank J. Solt, San Bernardino.

Contract Awarded.
ALTERATIONS Cost, \$75,000
SANTA ROSA, Sonoma Co., Cal.

Alterations and additions to hotel.

Owner—Occidental Hotel (operated by W. W. Madison), Santa Rosa.

Private Plans.

Contractor—W. L. Proctor, Santa Rosa.

The project will involve the construction of a 30-room wing addition.

The present structure will be renovated, involving considerable painting and decorating, re-arrangement of plumbing, etc.

Contract Awarded.
HOTEL Cost, \$—
LOS ANGELES, Cal. California and Pavilion Sts.

Three-story Class C brick hotel and auditorium (58 rooms).

Owner—F. Dugan.

Architect—Herbert L. Booth and Arthur Le Brun, 600 Fay Bldg., Los Angeles.

ICE AND COLD STORAGE PLANTS

Contract Awarded.
ADDITION Cost, \$49,950
WATSONVILLE, Santa Cruz Co., Cal.

Beach Road.

Reinforced concrete addition to cold storage plant (75x110 ft.)

Owner—Apple Grovers Cold Storage Co., Watsonville.

Engineer—L. H. Nishkian, 525 Market St., San Francisco.

Mechanical Engineers—Hunter & Hudson, 41 Sutter St., San Francisco.

Contractor—P. T. Wallstrum, 30 West Lake Ave., Watsonville.

Complete list of bids follows:

P. T. Wallstrum, 30 West Lake Ave., Watsonville \$19,550

The Ruegg Co., 234 9th St. S. F. 49,952

MacDonald & Kahn, Financial Center Bldg., S. F. 50,000

Grant L. Miner, Palo Alto 51,466

W. W. Williamson, 320 Market St., San Francisco..... 52,830
 J. S. Sampson, Monadhock Bldg., San Francisco..... 53,000
 Jas. L. McLaughlin, 251 Kearny St., San Francisco..... 54,000
 K. E. Parker Co., 135 S Park St., San Francisco..... 55,000
 Gay Eng. Corp., 593 Market St., San Francisco..... 56,823

POWER PLANTS

HANFORD, Kings Co., Cal.—Residents of Corcoran petition county supervisors to erect new branch library to replace the present structure said to be "badly in need of repairs and has outlived its usefulness."

UKIAH, Mendocino Co., Cal.—Butte Electric & Manufacturing Co., San Francisco, at \$250 submitted only bid to city council to construct an electric line from Orchard Ave. and River St. to municipal pumping plant on the Russian River. Bids rejected and the work will be done by day labor.

To Be Done By Day's Work.
 SUB-STATION Cost, \$85,000
 SAN FRANCISCO. 19th St. and San Carlos Ave.
 Three-story steel frame and concrete sub-station.
 Owner—Pacific Gas & Electric Co., 245 Market St.
 Plans by Owner.

Preparing Working Drawings.
 LIGHT PLANT Cost, \$150,000
 PASADENA, Los Angeles Co., Cal.
 Glenarm St., bet. Fair Oaks and Raymond Aves.
 One-story reinforced concrete lighting plant (108x150 ft.)
 Owner—Pasadena Municipal Lighting Department.
 Architect—Bennett & Haskell, 311 1st Trust Bldg., Pasadena.

UKIAH, Mendocino Co., Cal.—Until July 30, 7:30 P. M., bids will be received by F. C. Handy, city clerk, to furnish and deliver:
 400 lbs. No. 4-W WP D B soft drawn, stranded copper wire;
 5500 lbs No. 3-0 WP DB medium, hard drawn bare, stranded copper wire;
 3000 lbs. No. 2, 500 lbs. No. 6 and 1500 lbs. No. 4 WP DB soft drawn solid copper wire.

Certified check 10% payable to City Council required with bid. Further information obtainable from city clerk.

AMADOR COUNTY, Cal.—See "Reservoirs and Dams," this issue. Pacific Gas and Electric Co. seeks water rights for power development purposes.

CASA GRANDE, Ariz.—O. U. Miracle Constr. Co. of San Diego (Harry L. Foster, contractor's representative at Casa Grande), has been awarded a contract by Electrical District No. 4 to construct about 60 miles of new power lines to serve the district east of Casa Grande, including Eloy and Toltec sections. The \$250,000 bonds voted for the project were also purchased by the Miracle Co.

SANTA BARBARA, Cal.—Architect Russell Ray, 27 W. Mission, has completed plans for a one-story reinforced concrete substation to be erected on West Mission St. for the Southern California Edison Co. The owner will erect the building.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

Bids To Be Asked Shortly.
 JAIL. Cost, \$—
 LOS ANGELES, Cal. Avenue 19.
 Five-story and basement Class A reinforced concrete Lincoln Heights Jail (T-shape; 200x45 ft. and 110 x45 ft.; 625 prisoners)
 Owner—Board of Public Works.
 Plans by C. O. Brittain, Supt. of City Construction Dept., City Hall, Los Angeles.

Plans Being Figured—Bids Close August 5, 10 A. M.
 FIXTURES Cost, \$—
 BERKELEY, Alameda Co., Cal. Shattuck Ave. and Kittridge St.
 Furnish and install electric fixtures in public library.
 Owner—City of Berkeley, Florence E. Turner, City Clerk.
 Architect—James W. Plachek, Mercantile Bank Bldg., Berkeley.

Certified check 10% payable to City of Berkeley required with bid. Specifications obtainable from architect on deposit of \$5, returnable.

Permit Applied For.
 POLICE STATION Cost, \$300,000
 LOS ANGELES, Cal. No. 401-23 N. Avenue 19.
 Five-story reinforced concrete jail (155x201 ft.) and two-story Class C brick police station (48x301 ft.)
 Owner—City of Los Angeles.
 Plans by C. O. Brittain, Supt. of Construction Dept., City Hall, Los Angeles.

SOUTH SAN FRANCISCO — San Mateo Co., Cal.—City Council has authorized installation of janitor burner, manually controlled, with automatic steam control, together with steam boiler, in city hall. Cost is estimated at \$389.35.

SALINAS, Monterey Co., Cal.—City council plans illumination of dome of city hall. Preliminary estimates provide for installation of Neon system to cost \$1200.

Contract Awarded.
 BOOK STACKS Cost, \$—
 BERKELEY, Alameda Co., Cal. Kittridge St. and Shattuck Ave.
 Furnish and install steel book stacks in library.
 Owner—City of Berkeley, Florence E. Turner, city clerk.
 Architect—Jas. W. Plachek, Mercantile Bank Bldg., Berkeley.
 Contractor—M. G. West Co., 239 13th St., Oakland.

RESIDENCE

Preparing Plans.
 RESIDENCES Cost, \$100,000
 BEVERLY HILLS, Los Angeles Co.
 Five two-story frame and stucco residences (10 rooms each).
 Owner and Builder—James F. Dickason, 302 1st National Bank Bldg., Beverly Hills.
 Plans by Owner.

Contract Awarded.
 RESIDENCE Cost, \$8000
 CLEAR LAKE, Lake Co., Cal. Buckingham Park.
 Two-story frame and stucco office and residence (7 rooms).
 Owner—Withheld.
 Architect—Chas. Strothoff, 2274 15th St., San Francisco.
 Contractor—Stoneson Bros. & Thorinsson, 279 Yerba Buena, San Francisco.

This structure is in connection with a group of frame and stucco residences to be erected at Buckingham Park.

Contract To Be Awarded.
 RESIDENCE Cost, \$—
 MONTEREY, Monterey Co., Cal.
 Two-story and basement frame and stucco residence.
 Owner—Arthur Metz.
 Architect—W. O. Raiguel, Hotel Del Monte, Monterey.
 Contractor—M. J. Murphy, Carmel.

Contract Awarded.
 RESIDENCE Cost, \$20,489
 PALO ALTO, Santa Clara Co., Cal.
 Two-story frame and stucco residence (9 rooms and 4 baths).
 Owner—Andrew Field.
 Architect—Bilge M. Clark, 310 University Ave., Palo Alto.
 Contractor—Wells P. Goodenough, 310 University Ave., Palo Alto.

Sub-Bids In—Under Advice.
 RESIDENCE Cost, \$15,000
 OAKLAND, Alameda Co., Cal. Burr and Stearns Streets.
 One and one-half-story frame and stucco residence (6 rooms).
 Owner and Builder—Mrs. A. M. Forner, 9618 Burr St., Oakland.
 Plans by Geo. G. Shimamoto, 1551 Laguna St., San Francisco.

Plans Being Prepared.
 ALTERATIONS Cost, \$4500
 BOLINAS, Marin Co., Cal.
 Alterations and additions to one and part two-story frame and stucco residence.
 Owner—Withheld.
 Architect—Harris Osborn, Hearst Bldg., San Francisco.

To Be Done By Day's Work.
 RESIDENCE Cost, \$35,000
 BERKELEY, Alameda Co., Cal. Claremont Pines.
 Two-story frame and stucco residence (Spanish type, 12 rooms).
 Owner and Builder—Sam Steindel, 33 Northampton Ave., Berkeley.
 Plans by Owner.

To Be Done By Day's Work.
 RESIDENCE Cost, \$16,000
 SAN MATEO, San Mateo Co., Cal. No. 377 Georgetown Ave.
 Frame and stucco residence.
 Owner & Contractor—E. R. Cavasso, 235 E-Third St., San Mateo.
 Plans by Owner.

Contract Awarded.
 RESIDENCE Cost, \$20,000
 SAN FRANCISCO, Pacific Avenue.
 Two-story brick veneer residence.
 Owner—Mrs. E. Lent, 2100 Jackson St., San Francisco.
 Architect—E. J. Osborne, Balboa Bldg., San Francisco.
 Contractor—S. Zinkand & Son, 667 36th Ave., San Francisco.

Preliminary Plans Being Prepared.
 RESIDENCE Cost, \$25,000
 LOS GATOS, Santa Clara Co., Cal.
 Two-story frame and stucco residence
 Owner—N. T. Bradford, President Western Well Drilling Co., 522 W-Santa Clara St., San Jose.
 Plans by George Kocher, Commercial Bldg., San Jose.

Bids Being Taken.
 RESIDENCE Cost, \$15,000
 BERKELEY, Alameda Co., Cal. Park View.
 Two-story frame and stucco residence (11 rooms).
 Owner—H. W. Bernheim, 266 Wildwood Ave., Berkeley.
 Architect—E. L. Snyder, 2101 Addison St., Berkeley.
 Bids are being taken by the architect and Mr. Bernheim.

Plans Being Figured.
RESIDENCE Cost, \$—
MONTREY, Monterey Co., Cal. 17-Mile Drive.
One-story frame and stucco residence (6 rooms).
Owner—E. A. William Jr., 346 Bay View Ave., Pacific Grove.
Architect—Swartz & Ryland, Spazier Bldg., Monterey.

Plans Being Figured.
ALTERATIONS Cost, \$—
SANTA CRUZ, Santa Cruz Co., Calif. Santa Cruz Mountains.
Alterations and additions to one-story frame summer house (Colonial style).
Owner—Fritz Henshaw, 1774 Broadway, Oakland.
Architect—Sidney B. Noble & Archie Newsom, Federal Realty Building, Oakland.

Contract Awarded.
RESIDENCE Cost, \$12,500
HILLSBOROUGH, San Mateo Co., Cal. Two-story and basement frame and stucco residence (8 rooms).
Owners—Mr. and Mrs. Elliott Jackson, Architect—Chas. Strothoff, 2274 15th St., San Francisco.
Contractor—A. Arneson, 156 Lowell St. San Francisco.

Plans Being Prepared.
RESIDENCE Cost, \$15,000
LAKEPORT, Lake Co., Cal. Two-story and basement frame and stucco residence (8 rooms).
Owner—Herbert V. Keeling.
Architect—Chas. Strothoff, 2274 15th St., San Francisco.

To Be Done By Day's Work.
RESIDENCE Cost, \$22,000
SAN FRANCISCO, Jackson & Cherry. Two-story and basement frame and stucco residence.
Owner and Builder—Mrs. Starr Bruce, 3055 Pacific Ave.
Architect—Morris M. Bruce, 859 Flood Building.

Bids Being Taken.
RESIDENCE Cost, \$19,000
BAYWOOD, San Mateo Co., Cal. Two-story frame and stucco residence (10 rooms).
Owner—Chas. Hammer, Burlingame.
Architect—Chas. Strothoff, 2274 15th St., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$9000
WOODSIDE, San Mateo Co., Cal. One-story frame and stucco residence (8 rooms).
Owner—St. George Holden, 2567 Filbert St., San Francisco.
Architect—Chas. Strothoff, 2274 15th St., San Francisco.
Contractor—Wm. Terry, 90 Allston, San Francisco.

SCHOOLS

Bids Being Taken.
CAFETERIA Cost, \$20,000
SAN JOSE, Santa Clara Co., Calif. One-story reinforced concrete cafeteria for Woodrow Wilson School.
Owner—San Jose City School District.
Architect—W. H. Weeks, Bank of Italy Bldg., San Jose.

Plans Being Figured — Bids Close August 13, 8 P. M.
GYMNASIUM Cost, \$50,000
BERKELEY, Alameda Co., Cal. Addition and Curtis Sts.
Burbank Junior High School Gymnasium (structural steel, brick and hollow tile construction).
Owner—Berkeley School District.
Architect—Hardman & Russ, Berkeley Bank Bldg., Berkeley.

Plans Being Figured — Bids Close August 19, 2 P. M.
GYMNASIUM Cost, \$—
SAN JOSE, Santa Clara Co., Cal. State Teachers' College Grounds. Reinforced concrete men's gymnasium.
Owner—State of California.
Architect—State Department of Public Works, Division of Architecture, Public Works Bldg., Sacramento.

Separate bids are wanted for a general contract and for mechanical work including plumbing, heating, ventilating and electric work. Separate bids will be considered for Electric Work and for Plumbing, Heating and Ventilating Work. Combined bids will also be considered for all four branches of the work.

The structure will be of reinforced concrete construction with a brick veneer base, frame interior partitions, steel roof construction and tile roof. Floor area 38,500 square feet.

Deposit of \$25 required for plans, returnable. Checks for same to be made payable to Dept. of Public Works, Division of Architecture.

See call for bids under official proposal section in this issue.

OAKLAND, Cal.—Until August 5, 4 P. M., bids will be received by John W. Edgemond, secretary, Board of Education, 104 Administration Bldg., for exterior painting of Durant and Santa Fe Schools. Certified check 10% required with bid. Specifications obtainable from Assistant Business Manager, Board of Education, at above address.

MARICOPA, Kern Co., Calif.—Until August 9, 12 noon, bids will be received by C. B. Warner, clerk, Palo Alto School District, to construct 3,000 ft., more or less, picket fence to eight or nine gauge wire fencing. Specifications obtainable from office of principal at school.

MARICOPA, Kern Co., Calif.—Until August 9, 12 noon, bids will be received by C. B. Warner, clerk, Maricopa High School Dist., to construct 3,000 ft., more or less, picket fence to eight or nine gauge wire fencing. Specifications obtainable from principal at high school.

Heating Contract Awarded.
SCHOOL Cost, \$80,000
SANTA CRUZ, Santa Cruz Co., Cal. One-story frame and stucco school (7 classrooms and assembly hall; Laurel School).

Owner—Santa Cruz School District.
Architect—W. H. Weeks, Hunter-Du-lin Building, San Francisco; 1736 Franklin St., Oakland, and Bank of Italy Bldg., San Jose.
Contractor—The Minton Co., Palo Alto and Mt. View.

Heating—San Jose Heating & Ventilating Co., 14 Gummer Arcade, San Jose, at \$5916.

As previously reported, plumbing awarded to Izant & Wilson, 30 Water St., Santa Cruz, \$7475; electric work to Superior Electric Co., Phelan Bldg., San Francisco, \$2390.

Contract Awarded.
HEATING SYSTEM Cost, \$775
SAN MATEO, San Mateo Co., Calif. Science Building, San Mateo Junior College.

Furnish and install heating and ventilating system.
Owner—San Mateo Junior College District.
Architect—None.

Contractor—Doyle Sheet Metal Works, 223 Fremont St., San Francisco.

Complete list of bids follows:
Doyle Sheet Metal Works, S. F. \$ 775
Reliable Sheet Metal Co., S. F. 925
Jas. A. Nelson, Inc., S. F. 1020
Geo. J. Henderson, Burlingame. 1073

Bids Opened.
ADDITION Cost, \$—
PACIFIC GROVE, Monterey Co., Cal. Seven-classroom and auditorium brick addition to high school.
Owner—Pacific Grove High School District.
Architect—W. H. Weeks, Hunter-Du-lin Building, San Francisco; 1736 Franklin St., Oakland, and Bank of Italy Bldg., San Jose.
Complete list of bids received follows:

General Contract
J. J. Groden, 1028 San Antonio Ave., Alameda, (a) \$76,100; (b) \$80,000; (c) \$75,500; (d) \$50,000; (e) \$500.
The Minton Co., Mt. View (a) 78,682; (b) \$83,502; (c) \$79,427; (d); (e) \$497.

Carl N. Swenson, San Jose, (a) \$80,440; (b) \$85,153; (c) \$79,527.
Chas. Vezev & Sons, Oakland (a) \$81,378; (b) \$83,487; (c) \$76,774; (d) \$7850; (e) \$1750.
M. J. Murphy, Carmel (a) \$82,774; (b) \$88,618; (c) \$85,121; (d) \$4166; (e) \$825.

Sorenson and Hagmark, S. F. (a) \$83,700; (b) \$84,541; (c) \$82,390; (d); (e) \$720.

J. W. Colby & Son, S. F. (a) \$84,127; (b) \$86,950; (c) \$82,629; (d); (e) \$643.

N. J. Sjoberg & Son, S. F. (a) \$86,468; (b) \$86,668; (c) \$81,481; (d) \$7718; (e) \$677.

Richard Chivers, Pacific Grove, (a) \$104,866; (b) \$110,400; (c) \$106,700; (d); (e) \$861.

Proposition (a) Change veneering from brick to cement plaster.

Proposition (b) Brick veneering instead of cement plaster.

Proposition (c) Change from concrete to frame with brick veneer.

Proposition (d) Special fixture work as listed.

Proposition (e) If Oregon pine is changed to clear Maple flooring (add).

Heating
Phillips Heating & Plumbing Co., Monterey \$11,822.74
Barton Oil-Matic, Monterey.. 11,950.00
James A. Nelson, S. F. 12,180.00
E. L. Gnekow, Stockton..... 12,692.00
Knittle Bros., San Francisco 12,732.00

Electric
Chas. A. Langlais, San Francisco, \$2,524; (a) \$470; (b) \$319; (c) \$310.
Roberts Mfg. Co., San Francisco, \$2,550; (a) \$360; (b) \$390; (c) \$460.
McConnell Elec. Co., Monterey, \$3,864; (a) \$592; (b) \$315; (c) \$569.
T. B. Reardon, Carmel \$4,100; (a) \$622; (b) \$357; (c) \$538.

Propositions a, b, c for additions.

Special Fixtures
Pacific Mfg. Co., S. F. \$7715.
M. J. Murphy, Carmel, (d) \$4166.
Fink & Schindler, San Francisco, (d) \$6290.

Bids held under advisement until Wednesday night.

Plans Being Figured—Bids Close August 9, 8 P. M.

REMODELING Cost, \$—
YREKA, Siskiyou Co., Cal. Install boiler and remodel old heating plant at Yreka High School.
Owner—Siskiyou Union High School District, Yreka.

Plans by W. Wethered, 16 Turk St., San Francisco.

Plans are obtainable from the architect and on file in the high school at Yreka.

SACRAMENTO, Cal.—Until August 18, 5 P. M., bids will be received by Chas. C. Hughes, Secretary, Board of Education, to furnish and deliver "commercial equipment" for schools. Specifications and further information obtainable from Business Manager of the Board of Education, Administration Bldg., 21st and L Sts.

Contracts Awarded—(Heating and Plumbing Under Adviseiment).
SCHOOL Cost, \$—
SANTA CRUZ, Santa Cruz Co., Cal.
 One-story concrete school building (Gault School).

Owner—Santa Cruz School District.
 Architects—A. J. Coffey, Phelan Bldg., and M. J. Rist, 760 Market Street, San Francisco.

General Contract—Wilson & McGranahan, 75 Ocean View, Santa Cruz, \$49,474.

Electric Work—Roy M. Butcher, 1020 Sherwood St., San Jose, \$2,248.

Bids for heating and plumbing taken under further adviseiment until July 29. San Jose Heating and Ventilating Co., San Jose, low for heating at \$9244, and Izant and Wilson, 30 Water St., Santa Cruz, low for plumbing at \$4575.

Contract To Be Awarded.

REMODELING Cost, \$1000
HAYWARD, Alameda Co., Cal. Crown Canyon Road near State Highway.

Move and remodel school.

Owner—Independent School District, B. H. Manter, Clerk, Route 3, Box 290, Hayward.

Architect—Not Given.

Contractor—A. Holyoke, East Ave., Hayward.

Complete list of bids follows:

A. Holyoke, Hayward.....\$1000
 C. A. Schwartz, Hayward..... 1020
 C. M. Russell, Hayward..... 1052
 G. A. Scott, Oakland..... 1100
 A. P. Lounghue, Oakland..... 1795

Plans Being Figured—Bids Close Aug. 5, 8 P. M.

FURNISHINGS Cost, \$—
SAN RAFAEL, Marin Co., Cal.

Furnish and install asbestos curtain for stage for high school auditorium; furnish and install auditorium seats; drapery for stage and auditorium.

Owner—San Rafael High School District (Oliver R. Hartzell, Secretary, Board of Education.)

Architect—N. W. Sexton, deYoung Bldg., San Francisco.

Specifications obtainable from architect and on file in office of the secretary at the high school.

Plans Being Figured.

DORMITORY Cost, \$—
BELMONT, San Mateo Co., Cal.

Two-story reinforced concrete dormitory and classroom addition.

Owner—College of Notre Dame, Belmont.

Architect—John J. Donovan, Tapscott Bldg., Oakland.

REDWOOD CITY, San Mateo Co., Cal.—Until August 1, 7:30 P. M., bids will be received by Greensburg School District for re-roofing Woodside School with Cordova roof tile with double eaves seamed with copper wire nails with 30-lb. felt nailed and hot coated. Further information obtainable from clerk.

Roofing Contract Awarded.

GYMNASIUM Cost, \$225,000
PALO ALTO, Santa Clara Co., Cal.

Stanford University Campus
 Steel frame and reinforced concrete gymnasium (300x250 ft.)

Owner—Stanford University, Palo Alto
 Architect—John Bakewell and Arthur Brown Jr., 251 Kearny St., San Francisco.

Contractor—George Wagner, Inc., 181 South Park, San Francisco.

Roofing—Frost Roofing & Tiling Co., 2286 El Camino Real, Palo Alto.

Other awards previously reported in our issue of July 1, 1930.

Contract Awarded.

SCHOOL Cost, \$—

WINTERS, Yolo Co., Cal.
 One-story frame and stucco school (2 classrooms).

Owner—Winters School District.
 Architect—Dean & Dean, California State Life Bldg., Sacramento.

Contractor—A. R. Gale, Russell St., Winters.

Complete list of bids follows:

A. R. Gale, Winters.....\$12,650
 W. L. Chatterton, Sacramento 14,209
 E. M. McGuire, Davis..... 14,200
 Matthews Constr. Co., Sacto..... 14,874
 J. G. Montroni, Woodland..... 14,950
 C. J. Hopkinson, Sacramento..... 14,986
 Geo. Korp, Sacramento..... 15,575

MODESTO, Stanislaus Co., Cal.—C. S. Morris, dean of the Modesto Junior College, announces \$3900 is available for the purchase of apparatus for the physics, engineering and surveying departments at the college. The equipment will be purchased shortly.

Plans Being Figured—Bids Close Aug. 4, 8 P. M.

ADDITIONS Cost, \$100,000
BERKELEY, Alameda Co., Cal.

Classroom additions to Longfellow School (Class C construction, brick, wood and steel joists in auditorium).

Owner—Berkeley School District.

Architect—James W. Plachek, Mercantile Bank Bldg., Berkeley.

Certified check 10% payable to Berkeley School District required with bid. Plans obtainable from architect on deposit of \$10. returnable.

Plans Being Figured—Bids Close Aug. 4, 1:30 P. M.

CLASSROOMS, ETC., \$18,000 Available
MODESTO, Stanislaus Co., Cal.

Agricultural unit for high school (2 classrooms, laboratories and offices).

Owner—Modesto City School District (J. H. Bradley, City Superintendent of Schools)

Architect—Davis-Pearce Co., Builders' Bldg., Stockton.

Plans Being Figured.

GYMNASIUM Cost, \$6000
VALLEJO, Solano Co., Calif. Vallejo High School.

Installation of showers and lavatories, etc. in gymnasium.

Owner—Vallejo Board of Education.

Plans by Wm. A. Jones, 403 Alameda St., Vallejo.

Contract Awarded.

ALTERATIONS Cost, \$14,252

NORTH SACRAMENTO, Sacramento Co., Cal.

Alterations and additions to present grammar school.

Owner—North Sacramento School District.

Architect—Charles F. Dean, California State Life Bldg., Sacramento.

Contractor—P. F. Bender, 1012 Del Paso Blvd., Sacramento.

OAKLAND, Cal.—Until August 5, 4 P. M., bids will be received by John W. Edgemond, Secretary, Board of Education, 1025 Second Ave., for the removal of all concrete foundations and walls, tile walls, brick walls, all brick or tile flues, all concrete floors and concrete steps, concrete footings below existing grade to remain, at the Fremont High School Site at 47th Ave. and Foothill Blvd. Certified check 10% payable to Board of Education required with bid. Specifications obtainable from secretary.

Plans Being Figured—Bids Close July 31, 4 P. M.

ADDITION Cost, \$—
SAN JOSE, Santa Clara Co., Cal.

Downer Ave. and Cottle Road.
 Two-classroom and toilet room addition to school.

Owner—Oak Grove School District, A. L. Anderson, Clerk.

Architect—Charles S. McKenzie, 415 Twohy Bldg., San Jose.

Bids previously received on this project were rejected as being too high. Certified check 5% payable to A. L. Anderson, clerk of district, required with bid. Plans obtainable from architect.

Contract Awarded.

SCHOOL Cost, \$32,800
FORTUNA, Humboldt Co., Cal.

One-story concrete school.

Owner—Fortuna Elementary School District.

Architect—Norman R. Coulter, 46 Kearny St., San Francisco.

Contractor—Carl Nelson, 1421 E-Channel St., Stockton.

Contract Awarded.

ADDITION Cost, \$5500
HAYWARD, Alameda Co., Cal. Sota Road and Orchard Ave.

Addition to John Muir School.

Owner—Hayward School District.

Architect—E. P. Whitman, 192 Main St., Hayward.

Contractor—A. F. Hanson, Hayward.

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Plans Being Completed.
HEATING SYSTEM Cost, \$—
STOCKTON, San Joaquin Co., Cal.
 French Camp.
 Convert electric heating system into steam heating system in six-room school building.
 Owner—French Camp Educational Society, French Camp Road, Stockton.
 Architect—V. Galbraith, Elks Bldg., Stockton.
 Plans will be ready for bids in ten days.

FAIRFIELD, Solano Co., Cal.—McLean Hardwood Floor Co., Stockton, at \$4150 awarded contract by trustees of Armijo Union High School District to furnish and place linoleum to high school now in course of completion.

Plumbing and Electric Contracts
 Awarded.
SCHOOL Cost, \$80,000
SANTA CRUZ, Santa Cruz Co., Cal.
 One-story frame and stucco school (7 classrooms and assembly hall).
 Owner—Santa Cruz School District.
 Architect—W. H. Weeks, Hunter-Du-lin Bldg., San Francisco; 1736 Franklin St., Oakland, and Bank of Italy Bldg., San Jose.
 Contractor—The Minton Co., Palo Alto and Mountain View.
Plumbing—Izant & Wilson, 30 Water St., Santa Cruz, at \$4745.
Electric Work—Superior Electric Co., Phelan Bldg., S. F., at \$2930.
 The heating contract will be let in one week.

PORTERVILLE, Tulare Co., Cal.—Hodgson & Son, Porterville, awarded contract to Porterville Union High School District to erect school bus garage at high school grounds.

OAKDALE, Stanislaus Co., Calif.—Until August 1, 7:30 P. M., bids will be received by J. Alban Rydberg, clerk Oakdale Union School District, for tinting walls and ceilings and varnishing woodwork of classrooms and corridors of the West Side School; also for roof repairs to East Side School. Specifications obtainable from office of superintendent at West Side School.

SACRAMENTO, Cal.—Until August 11, 5 P. M., bids will be received by Chas. C. Hughes, secretary, Board of Education, School Administration Bldg., 21st and L Sts., to furnish and deliver f.o.b. various schools: Auditorium chairs and miscellaneous supplies under the following classifications: geography, zoology, bacteriology, botany and chemistry. Specifications obtainable from Business Manager, Board of Education, 21st and L Streets.

Contract Awarded.
BOILER Cost, \$1820
LIVINGSTON, Merced Co., Cal.
 Install low pressure steam boiler and Excelsio water heater in boiler room of Livingston Branch High School.
 Owner—Merced Union High School District, Dr. N. S. Peck, clerk.
 Engineer—W. E. Bedesen, Shaffer Bldg., Merced.
 Contractor—Andy Thorsen, Turlock.
 Following is a complete list of bids:
 Andy Thorsen, Turlock.....\$1,820
 Geo. C. Bell, Oakland.....1,829
 Barrett-Hicks Co., Fresno.....1,349
 W. Degen Co., Fresno.....2,095
 E. H. Wolfe, Turlock.....2,330
 Sanitary Pblg. Co., Merced.....2,745

EXETER, Tulare Co., Cal.—Walter Harris, Fresno, at \$14,469 awarded contract by Kaweah Grammar School District, to erect 3-classroom brick

school with tile roof. Barrett-Hicks Co., Fresno, awarded contract for heating.
 Plans Being Figured—Bids Close August 4, 1:30 P. M.
ADDITION Cost, \$4500
MODESTO, Stanislaus Co., Cal.
 Washington Elementary School.
 Class C brick and plaster addition to school (tile roof, maple floors, etc.)
 Owner—Modesto School District.
 Architect—Davis-Pearce Co., Grant and Weber Sts., Stockton.

Contract Awarded.
SCHOOL Cost approx. \$27,000
LUCERNE, Lake Co., Cal.
 Reinforced concrete grammar school.
 Owner—Lucerne School District.
 Architect—N. R. Coulter, 46 Keating St., San Francisco
 Contractor—A. O. Lightford, Lucerne.

To Vote Bonds To Finance.
SCHOOL Cost, \$35,000
UPPER LAKE, Lake Co., Cal.
 One-story reinforced concrete high school.
 Owner—Upper Lake Un. High School District.
 Architect—William Herbert, Rosenberg Bldg., Santa Rosa.
 Previous election was declared invalid due to irregularities.

Contract Awarded.
ADDITIONS Cost, \$—
DELANO, Kern Co., Cal.
 Build and equip additional rooms at Cecil Ave. Grammar School, and for repairs and alterations to West Side Schools.
 Owner—Delano Un. Grammar School District, G. A. Swanson, clerk, Delano.
 Architect—Chas. H. Biggar, Bank of Italy Bldg., Bakersfield.
 Contractor—Roy A. Stearns, Delano.
 Following is a complete list of the bids received on the general contract, bids for plumbing and heating being taken under advisement:
 R. A. Stearns, Delano.....\$7,820
 R. Hodgson & Sons, Porterville.....8,125
 Moon & Moon, Bakersfield.....8,185
 Willard K. Michael, Bakersfield.....8,348
 Currie & Duglar, Bakersfield.....8,400

Plans Being Figured—Bids Close Aug. 4, 5 P. M.
GRADING & PAVING Cost, \$—
SAN CARLOS, San Mateo Co., Calif.
 Elm St. bet. Cypress Avenue and Cherry St.
 Grading and paving school yard.
 Owner—San Carlos Elementary School District, A. Simpson, clerk.
 Architect—E. L. Norberg, 407 Occidental Ave., Burlingame, or 580 Market St., San Francisco.
 Certified check 10% payable to clerk required with bid. Specifications obtainable from either office of the architect on deposit of \$5, returnable.

Plans Being Figured—Bids Close August 4, 1:30 P. M.
HEATING SYSTEM Cost, \$3500
MODESTO, Stanislaus Co., Cal.
 Washington and Lincoln Schools.
 Convert electric heating to steam heating system.
 Owner—Modesto School District.
 Architect—Davis-Pearce Co., Grant and Weber Sts., Stockton.

Bids Opened.
ADDITION Cost, \$—
RENO, Nevada. Evans Avenue.
 Two-classroom addition to Orvis Ring School.
 Owner—Reno School District No. 10, Theo. W. Clark, clerk.
 Architect—George A. Ferris and Son, Cladianos Bldg., Reno.
 Following is a complete list of bids received and taken under advisement due to a technicality regarding the amount of bond required:
 Geo. W. Miller, Reno.....\$12,717
 J. G. Patterson, Reno.....12,990
 J. Dellacqua, Reno.....14,019
 J. C. Dillard, Reno.....14,077
 Rousch & Belz, Reno.....14,328
 H. F. Byars, Reno.....14,725
 I. Bernasconi.....17,000

WILLOW RANCH, Modoc Co., Cal.—Until August 2, 10 A. M., bids will be received by J. M. Thompson, Clerk, Willow Ranch School District, to erect new school. Certified check 10% required with bid. Plans obtainable from clerk.

ESCALON, San Joaquin Co., Cal.—Frank P. Guyon, 1211 E Main Street, Stockton, at \$3500 awarded contract to erect addition to Escalon Union High School. Will contain showers and 16 dressing rooms with office and one private shower. Will be 20 by 52 ft.

Contract Awarded.
ADDITION Contract price, \$14,019
RENO, Nevada. Evans Avenue.
 Two-classroom addition to Orvis Ring School.
 Owner—Reno School District No. 10, Theo. W. Clark, clerk.
 Architect—George A. Ferris and Son, Cladianos Bldg., Reno.
 Contractor—Joe Dell'Acqua, Reno.

WILLIAMS, Colusa Co., Cal.—Until August 1, 8 P. M., bids will be received by Harry A. Crutcher, clerk, Williams Union Grammar School District, to furnish and install auditorium chairs and school furniture in grammar school. Specifications obtainable from above.

TULARE, Tulare Co., Cal.—Jolly & Harrington, 834 Arthur St., Fresno, at approximately \$6,000 awarded contract by Tulare Union High School District to erect bus garage at high school grounds. Tulare Electric Co., Tulare, awarded contract for electric work.

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MONTEREY, Monterey Co., Cal.—Until August 2, 4 P. M., bids will be received by J. R. McKillop, clerk, Monterey Union High School District, to furnish and deliver general office and school supplies. Complete specifications and further information obtainable from clerk.

BANKS, STORES & OFFICES

Contract Awarded.
REMODELING Cost, \$12,000
MONTEREY, Monterey Co., Cal.
Alvarado Street
Remodeling store front.
Owner—Withheld.
Architect—W. W. Hastings, Pryor Bldg., Monterey.
Contractor—Albert Gatti, 411 Spencer St., Monterey.

Commissioned To Prepare Plans.
OFFICE BLDG. Cost, \$2,800,000
SAN FRANCISCO Civic Center.
Four-story and basement Class A Federal Office Building.
Owner—U. S. Government.
Architect—Arthur Brown, Jr., 251 Kearny St.

Contracts Awarded.
ALTERATIONS Cost, \$25,000
SAN FRANCISCO No. 512 Mission Street.
Alterations to present six-story Class A steel frame and concrete building (new press foundation, alter offices, etc.)
Owner—San Francisco News.
Engineer and Contractor—J. H. Hjul, 123 Russ St., San Francisco.
Plumbing—Rodoni Becker Co., 455 Tenth St., San Francisco.
Electric—Chas. A. Songear, 500 Battery St., San Francisco.

Contract Awarded.
FILM EXCHANGE BLDG. \$24,540
SAN FRANCISCO Hyde Street and Golden Gate Ave.
Two-story class B reinforced concrete film exchange building.
Owner—Theo. Rulfs, 2090 Pacific Ave., San Francisco.
Architect—A. H. Knoll, Hearst Bldg., San Francisco.
Contractor—P. Sartorio, 2440 Greenwich St., San Francisco.

Plans To Be Prepared.
MEDICO-DENTAL BLDG. Cost, \$350,000
SAN JOSE, Santa Clara Co., Cal.
W-Santa Clara St. (site of old Notre Dame Convent).
Eight-story and basement class A steel frame and reinforced concrete Medico-Dental Building (2 elevators).
Owner—Medical Arts Bldg. Corporation (now being organized).
Architect—W. H. Weeks, Bank of Italy Bldg., San Jose, and 111 Sutter St., San Francisco.

Contract Awarded.
BAKERY & STORE Cost, \$—
EUREKA, Humboldt Co., Cal. Fifth Street.
One-story brick and frame bakery and store.
Owner—Philip Bruce, Eureka.
Lessee—Mity-Nice Bakery (Mrs. Pearl French), Eureka.
Architect—Frank T. Georgeson, Sixth and G Sts., Eureka.
Contractor—Willis J. Steeves, 2303 Union St., Eureka.

TULARE Tulare Co., Cal.—Chamber of Commerce rejects bids to erect new office building and new bids will be asked from slightly revised plans. Bids are being received for brick and concrete block construction. The cost is estimated at \$5000. Harry Perry is secretary of the chamber.

Bids To Be Opened Shortly.
ALTERATIONS Cost, \$40,000
SANTA ROSA, Sonoma Co., Cal.
Alterations and additions to concrete bank building (add two stores, 60x80 feet, etc.)
Owner—Bank of Italy.
Architect—H. A. Minton, Bank of Italy Bldg., Eddy and Powell Sts., San Francisco.

Plans Being Figured—Bids Close
August 4.
ADDITION Cost, Approx \$250,000
SAN FRANCISCO Clay and Montgomery Sts.
Class A addition for offices and bank.
Owner—Bank of Italy, Clay and Montgomery Sts., San Francisco.
Architect—H. A. Minton, Bank of Italy Bldg., Eddy and Powell Sts., San Francisco.

Sub-Contracts Awarded.
STORE Cost, \$425,000
SAN JOSE, Santa Clara Co., Cal. 1st and San Carlos Sts.
Three-story class C reinforced concrete department store.
Owner—Hale Bros., Fifth and Market Sts., San Francisco.
Architect—Binder & Curtis, 35 W San Carlos St., San Jose and Swanson & Lane, Chicago, Ill.
Contractor—Dinwiddie Const. Co., Crocker Bldg., San Francisco.
Excavation—Earl Heple, 494 Delmas St., San Jose.
Rock, Sand and Gravel—Central Supply Co., San Jose.
Cement—Borchers Bros., 396 N 1st St., San Jose.
Plumbing—William F. Serpa, 497 N 13th St., San Jose.
Electrical Work—Butcher Elec. Co., 1029 Sherwood St., San Jose.
As previously reported, pile driving awarded to Raymond Concrete Pile Co., Hunter-Dulin Bldg., San Francisco.

Contract Awarded.
OFFICE BLDG. Cost, \$12,000
FRESNO, Fresno Co., Cal. Kern and N Streets
Office building.
Owner—Standard Brands, Kern and N Sts., Fresno.
Architect—None.
Contractor—R. Pedersen, 446 Clark St., Fresno.

Sub-Bids In—Under Advisement.
ALTERATIONS Cost, \$—
SAN FRANCISCO SW Post St. and Grant Avenue.
Install modern soda fountain.
Owner—The Owl Drug Co. (W. M. Berg, Manager).
Plans by Edwin Du Val, Dalziel Bldg., Oakland.
Contractor—Edwin Du Val, Dalziel Bldg., Oakland.

Contract Awarded.
OFFICES Cost, \$155,796
PORTLAND, Ore. Eighth and Willamette Sts.
Twelve-story and basement class A offices.
Owner—Medical Arts Center, Inc.
Architect—A. E. Doyle and Associates, Pacific Bldg., Portland.
Contractor—Hargreaves and Lindsay, Eugene, Ore.

Bids for electric work, heating and plumbing, marble and tile and elevators have been taken under advisement.

TULARE, Tulare Co., Cal.—E. Allan Abbott, Tulare, at \$249 awarded contract by Tulare Chamber of Commerce to erect new office building. Tulare Electric Co. awarded contract for electric work.

Ornamental Iron Contract Awarded.
FILM EXCHANGE BLDG. \$24,540
SAN FRANCISCO Hyde Street and Golden Gate Avenue.
Two-story Class B reinforced concrete film exchange building.
Owner—Theo. Rulfs, 2090 Pacific Ave., San Francisco.
Architect—A. H. Knoll, Hearst Bldg., San Francisco.
Contractor—P. Sartorio, 2440 Greenwich St., San Francisco.
Ornamental Iron—Harrison & Koster Iron Works, 280 13th St., San Francisco.

SAN FRANCISCO—D. Zelinsky & Sons, Inc., 165 Grove St., without competition, awarded contract for painting and decorating in connection with 20-story Class A office and bank building at Montgomery and California Sts. for Pacific National Bank. O'Brien Bros. and W. D. Peugh, architects. Cahill Bros., general contractors.

Plans Being Figured By Local Contractors.
ALTERATIONS Cost, \$—
SANTA ROSA, Sonoma Co., Cal.
Alterations to present one-story brick store.
Owner—National Dollar Store, San Francisco.
Architect—Bernard Joseph, 74 New Montgomery St., San Francisco.

THEATRES

Contract Awarded.
REMODELING Cost, \$—
FRESNO, Fresno Co., Cal. Fulton St.
Remodeling Bijou Theatre.
Owner—Fred Conley and D. A. Powers
Architect—None.
An air-cooling system will be installed.

WHARVES AND DOCKS

Contract Awarded.
REPAIRS Cont. Price, \$1397
MONTEREY, Monterey Co., Cal.
Repairs to Lumber Wharf, Municipal Wharf No. 2.
Owner—City of Monterey, Clyde A. Dorsey, City Clerk.
Engineer—Francis B. Smith, 58 Sutter St., San Francisco.
Contractor—C. D. Todd, Pacific Grove.
Construction will involve 25 creosoted piles and 175 lin. ft. of three-ply 4x14-in. timber ribbing. Following is a complete list of bids received:
C. D. Todd, Pacific Grove.....\$1397
A. W. Kitchen, San Francisco.....1875
C. C. Gildersleeve.....1933
Healy-Thibbits Constr. Co., S. F. 2635

OAKLAND, Calif.—Western Automatic Sprinkler Co., Inc., 114 Sansome St., San Francisco, at \$22,510, submitted low bid to City Port Commission to furnish and install complete automatic sprinkler system, fire hose riping and domestic water piping in Transit Shed No. 1, Brooklyn Basin, foot of 9th Ave. Other bids were: Grinnell Co. of the Pacific, San Francisco, \$23,500; The Turner Co., San Francisco, \$23,800.

SAN FRANCISCO—Until July 30, 2 P. M., informal bids will be received by Frank G. White, chief engineer, State Harbor Commission, Ferry Bldg. for laying roofing on Shed of Pier No. 44, involving approximately 840 squares of which 420 squares on the north side of the shed are provided for in Contract A and approximately 420 squares on the south side, as provided for in Contract B.

The Board is replacing the old shingle roof with new plank sheath-

ing. The contractor shall cover the new sheathing and also the existing sheathing or roofing on the extension at the outer end and the landings on both sides.

Bidders may submit prices on two alternative types of roofing, namely, an asbestos and asphalt built up roof; and a rag felt and asphalt built up roof.

The asbestos built up roof shall be the equivalent as determined by Chief Engineer of a Johns-Manville standard built up roof, consisting of one layer of 60 lb. per square asphalt impregnated asbestos felt and two layers of 14 lb. per square asphalt impregnated asbestos felt, and specified as Johns-Manville standard asbestos built up roofing over wood sheathing. The rag felt built up roof shall be the equivalent as determined by the Chief Engineer of a Pabco built up roof consisting of two layers of 35 lb. per square asphalt impregnated rag felt sheets and one layer of mineral surfaced sheet weighing 55 lbs. per square and specified as under the Pabco Fifteen Year Steep Roof Specification.

MISCELLANEOUS CONSTRUCTION

OAKLAND, Cal. — Scott - Butner Electric Co., 19 Grand Ave., Oakland, at approximately \$30,000 awarded contract by Oakland Baseball Club to install lighting system in Oakland Baseball Park for night ball games. The project will involve the installation of one hundred and thirty-eight 1500-Watt globes. Considerable wiring is involved in the improvement. Projectors will be furnished by the Giant Manufacturing Company

Plans Being Figured. Cost, \$50,000
GRASS VALLEY, Nevada Co., Cal.
Greenwood Park.
Reinforced concrete mausoleum.
Owner — North American Mausoleum Co., Sacramento.
Architect—Jens C. Petersen, 812 26th St., Sacramento.

Marble interior, tile floors, bronze sash and doors and copper set glass.

SACRAMENTO, Cal.—C. J. Hopkinson, 1810 28th St., Sacramento, at \$2262 and \$2958, respectively, awarded contract by city council to erect comfort stations in McKinley and William Curtis Parks.

PITTSBURG, Contra Costa Co., Cal.—City Engineer E. L. O'Hara preparing specifications for approximately 9,400 feet of fencing and three gates at the municipal reservoir site.

Plans Being Prepared. Cost, \$—
AREN'A, Sacramento Co., Cal.
L. St. and Alhambra Blvd.
Ice skating and sports arena.
Owner—Sacramento Ice Hockey Club.
Architect—Starks & Flanders, Forum Bldg., Sacramento.

The structure will contain facilities for ice hockey, boxing, wrestling, swimming and other athletic events. The ice hockey court is planned to have a seating capacity of 6,000, which may be enlarged to accommodate 2,500 more people in bleachers in the upper promenades. When the ice area is covered over for boxing and wrestling matches, a crowd of 10,500 may be seated.

A large natatorium also is to be part of the project. There will be a swimming pool, 60x150 ft. in size, for adults and another pool, 60x40 ft. in area, for children. The children also will be provided outdoor gardens with sandy beaches.

OAKLAND, Cal.—San Leandro Rock Co., San Leandro, at 90c cu. yd. awarded contract by City Port Commission to furnish and deliver Municipal Airport 5000 cu. yds. quarry waste from second grade rock. 1st report July 16

PITTSBURG, Contra Costa Co., Cal.—Bids will be asked at once by city council to construct three tennis courts with asphalt type of pavement. Total estimated cost \$5200. Plans prepared by City Manager George Oliver.

Contract Awarded. Cost, \$50,000
GRASS VALLEY, Nevada Co., Cal.
Greenwood Park.
Reinforced concrete mausoleum.
Owner — North American Mausoleum Co., Sacramento.
Architect—Jens C. Petersen, 812 26th St., Sacramento.
Contractor—McGillivray Constr. Co., Folsom Blvd. and 66th St., Sacramento.
Marble interior, tile floors, bronze sash and doors and copper set glass.

SAN FRANCISCO — H. R. Love, 4354 26th St., at \$1,819 awarded contract by Board of Public Works to construct safety beacon at Castro, 17th and Market Streets.

MARICOPA, Kern Co., Calif.—Until August 9, 12 noon, bids will be received by C. B. Warner, clerk, Maricopa High School Dist., to construct 3,000 ft., more or less, picket fence to eight or nine gauge wire fencing. Specifications obtainable from principal at high school.

MARICOPA, Kern Co., Calif.—Until August 9, 12 noon, bids will be received by C. B. Warner, clerk, Paeto School District, to construct 3,000 ft., more or less, picket fence to eight or nine gauge wire fencing. Specifications obtainable from office of principal at school.

MISCELLANEOUS SUPPLIES AND MATERIALS

SAN FRANCISCO—Until August 11, 3 P. M., under Proposal No. 612, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish and deliver linseed oil, shellac, turpentine, lead, litharge, mineral brown and putty, as may be ordered from time to time during the tri-annual term commencing Sept. 1 and ending Dec. 31, 1930. Specifications obtainable from above office.

UKIAH, Mendocino Co., Cal.—Until July 30, 7:30 P. M., bids will be received by F. C. Handy, city clerk, to furnish and deliver:

400 lbs. No. 4-0 WP D B soft drawn, stranded copper wire;
1500 lbs. No. 3-0 WP DB medium, hard drawn bare, stranded copper wire;

2000 lbs. No. 2, 500 lbs. No. 6 and 1500 lbs. No. 4 WP DB soft drawn solid copper wire.

Certified check 10% payable to City Council required with bid. Further information obtainable from city clerk.

ROSEBURG, Ore.—State Highway Commission is making surveys for 1300 ft. tunnel under Hancock Mountain, east of Elkton on the Umpqua Highway; estimated cost \$130,000. Roy A. Klein is state highway engineer.

BUSINESS OPPORTUNITIES

SAN FRANCISCO—Names and addresses of the individuals or firms concerned in these opportunities will be furnished on request to the Business Opportunity Department of Daily Pacific Builder, 545-547 Mission Street. Phone GARfield 8744.

20298—Representation. San Francisco, Calif. Party located in Poland is desirous of representing local firms there.

20300—Springs, Chains, Wires. San Francisco, Calif. Czechoslovakian manufacturer of wires, springs, bed-springs, furniture springs, and chains desires a local representative.

20314—Machinery, Bread Making and Bottling. Papeete, Tahiti. Partners who are planning to establish a bakery are desirous of communicating with manufacturers or exporters of bread making machinery, also bottling machinery (for soda pop).

20315—Slate. Genoa, Italy. Manufacturers of slate for roofing, billiard tables, blackboards, etc., are desirous of forming connections with importers of these commodities in San Francisco. Further information available locally.

20316—Marble. San Francisco, Calif. Shippers of white and colored granulated marble produced in northern Italy, desire to communicate with interested firms in San Francisco. Price list and samples are available.

20318 — Statues. San Francisco, Calif. French manufacturers of statues desire to enter into relations with firms in San Francisco interested in the importation of these articles.

20319—Representation. San Francisco, California. Party with several years' experience in South American countries, who speaks several languages, is seeking the representation of a local firm for South America, especially interested in Argentina and Chile. His specialty is agricultural machinery, also automobiles. Local references.

Panyard Piston Ring Co., (J. J. Biggs, sales manager), Muskegon, Mich., is anxious to secure an agency in this city. Communicate with Mr. Biggs direct.

Louis Denhof, Biltmore Hotel, 735 Taylor St., San Francisco, is interested in acting as exclusive sales representative in the Pacific Coast territory for manufacturers located in the East, selling to the wholesale trade only.

SPRINKLER ORDINANCE BEFORE SACRAMENTO CITY COUNCIL

An ordinance proposing installation of meters for roof sprinkler systems of more than ten sprinkler heads are used, has been submitted to the Sacramento city council by Jas. S. Dean, city manager.

In addition to requiring the installation of meters, the sprinkler ordinance would require a permit before such sprinkling systems could be installed. Dean stated this would enable the city inspectors to keep a closer check on roof sprinklers. At present there are 102 such systems in the city and the only means the water inspectors have of learning of new installations is by observation. The proposed ordinance provides for a flat rate of so much per sprinkler head where less than ten heads are installed.

Engineering News Section

BRIDGES

* **HUMBOLDT COUNTY, Cal.**—Until August 13, 2 P. M., bids will be received by State Highway Commission to construct overhead crossing over tracks of the Northwestern Pacific Railroad about 2½ miles north of Beatrice, consisting of two 61 ft. 7 inch through plate girder spans, one 49 ft. steel beam span and approximately 450 feet of timber trestle approach.

See call for bids under official proposal section in this issue.

SAN JOSE, Santa Clara Co., Cal.—San Jose Iron Works, 535 West San Carlos St., awarded contract to furnish miscellaneous iron work in connection with the Hellyer Avenue bridge, the general contract for which was awarded by the county supervisors to Collins & Martin, San Jose, at \$9794. Will be wooden Pratt truss bridge.

OAKLAND, Cal.—Herrick Iron Works, 18th and Campbell Sts., Oakland, at \$2464 awarded contract by East Bay Municipal Utility District, to construct bridge over upper San Leandro Creek.

SACRAMENTO, Cal.—Until July 29, 10 A. M., bids will be received by H. W. Hall, county clerk, to construct timber structure over Laguna Creek, known as Hagle Bridge. Certified check 10% payable to Chairman of Board of Supervisors required. Plans obtainable from County Engineer Chas. Deterding.

TRINITY COUNTY, Calif.—Whipple Engineering Co., Monrovia, at \$3,000 awarded contract by State Highway Commission to construct bridge across Trinity River near Douglas City, consisting of two 125-ft. steel deck truss spans with concrete deck, four 56-ft. reinforced concrete girder spans and two 30-ft. reinforced concrete girder spans.

RIVERSIDE, Riverside Co., Calif.—Until 10 A. M., July 28, bids will be received by the county to construct a bridge over San Jacinto River, known as the Soboba—San Jacinto bridge, involving the following approximate quantities:

Steel Bridge—Structural steel, 197,730 lbs.; reinf. steel, 35,870 lbs.; class A concrete, 272 cu. yds.; embankment approaches, 13,400 cu. yds.; surfacing, 1690 cu. yds.

Alternate Plan, Creosoted Pile Bridge—Douglas fir creosoted piles, 2220 lin. feet, Douglas fir selected common stringers, 35,640 ft. B. M.; Douglas fir selected common struc., 33,593 ft. B. M.; select all-heart situ. redwood, 6108 ft. B. M.; embankment approaches, 13,400 cu. yds.; surfacing, 1690 cu. yds.

A. C. Fulmer, county surveyor. Deposit of \$5 for plans. Certified check 5%. J. F. Reimer, deputy clerk of the board.

OAKLAND, Cal.—Robt B. McNair, 834 Mead St., Oakland, awarded contract by city council to improve certain culvert right-of-way, involving 27-in. reinf. conc. pipe culvert, \$3.60 ft.; 33-in. reinf. conc. pipe culvert,

\$4.95 ft.; conc. taper section, 5 ft. long, \$49.50 ea; manholes, \$39.50 ea.

LYON COUNTY, Nev.—Until Aug. 6, 2:30 P. M., bids will be received by State Highway Commission, Carson City, to construct reinforced concrete bridge, including approaches, over East Walker River at a point 7½ miles south of Yerington. Plans obtainable from S. C. Durkee, state highway engineer, Carson City, on deposit of \$15, of which \$10 is returnable. Plans on file in office of U. S. Bureau of Public Roads, 461 Market St., San Francisco. Certified check 5% required with bid.

EL DORADO COUNTY, Cal.—Ralph Hunter, 3408 Brockway St., Sacramento, at \$25,106 awarded contract by State Highway Commission to construct reinf. concrete girder bridge across South Fork of American River at Riverton, composed of one 60-foot span and two 54-foot spans on concrete piers and bents, and grading and surfacing approaches with untreated crushed gravel or stone.

NAPA, Napa Co., Cal.—Until August 12, 10 A. M., bids will be received by James A. Daly, county clerk, to construct arch extension to highway bridge near Myrtledale Hot Springs. Certified check 10% payable to Chairman of Bd of Suprs. required with bid. Specifications on file in office of clerk.

REDWOOD CITY, San Mateo Co., Cal.—Bids will be asked at once by city council, to be opened about August 11, to construct six bridges in various section of the city; estimated cost \$15,000. Bonds were recently voted to finance this work. C. L. Dimmitt is city engineer. Quantities of materials will be published shortly.

LOS ANGELES, Cal.—Robert E. McKee, Central Bldg., Los Angeles, at \$181,885 awarded contract by Board of Public Works to construct Sixth street reinforced concrete viaduct at track of the A. T. and S. F. Railway.

SAN LUIS OBISPO, San Luis Obispo Co., Cal.—Until August 11, bids will be received by city council for the following bridge improvements:

French street bridge over San Luis Obispo Creek, involving removal of old bridge and replacing with two 30-ft. spans with roadway, 27-ft. wide; regrading approaches; estimated cost, \$6500.

Santa Rosa street bridge, 22-ft. roadway; estimated cost, \$9000.

Rebuild and widen Chorro street bridge; estimated cost, \$4000.

Plans on file in office of clerk, Warren Burch, engineer, San Luis Obispo.

DREDGING, HARBOR WORKS & EXCAVATIONS

SACRAMENTO, Cal.—State Reclamation Board is considering recommendations to appropriate 390,000 to finance levee construction and flood control work in the Sacramento Valley. Four levees in the Yolo By-Pass at a cost of \$142,000 and one on the Feather River, costing \$88,000 are considered.

SAN FRANCISCO—Until August 11, 11 A. M., bids will be received by F. T. Letchfield, secretary, Islais Creek Reclamation District, 375 City Hall, to construct rock bulkhead wall in trench at Islais Creek Channel, involving:

(1) 325,000 cubic yards of material to be dredged and disposed of;

(2) 475,000 tons of rock fill to be furnished, transported and placed.

The work is located along the north side of Islais Creek Channel west of Third St. and along the east side of the Southern Pacific Company's trestle.

Certified check 10% required with bid. Plans obtainable from M. H. Levy, engineer for district, 375 City Hall.

See call for bids under official proposal section in this issue.

BAY POINT, Contra Costa Co., Cal.—Peter Bellomo, Bay Point, is taking bids to dredge canal on his property near Suisun Bay on which he proposed to establish a yacht harbor. The canal is to be dredged to a width of 100 ft. and a minimum depth of 7 ft. It will be about 1650 ft. in length.

SANTA BARBARA, Cal.—County Supervisor C. L. Preisker has announced that Major G. E. Verrill, resident engineer for the breakwater project, has prepared plans and estimates for a seawall to be built along the ocean front for the protection of the east boulevard. The proposed wall would be built of rocks and sheet piling. The estimate is \$80,000.

IRRIGATION PROJECTS

TURLOCK, Stanislaus Co., Calif.—Until Sept. 2, 2 P. M., bids will be received by Anna M. Sorensen, secretary, Turlock Irrigation District, for approximately 958,000 sq. ft. 2-in. concrete lining in various canals throughout the district. Specifications on file in office of secretary and obtainable from R. V. Meikle, chief engineer for the district.

STREET LIGHTING SYSTEMS

SANTA BARBARA, Cal.—City Engineer E. B. Brown estimates cost of ornamental electrolier system in connection with Milpas St. widening at \$36,000.

RICHMOND, Contra Costa Co., Cal.—City council declares intention (483) to install ornamental street lighting system in Tenth St. bet. Ripley Ave. and Cutting Blvd., involving 48 Richmond standards, 2-light, Design No. 1800, together with underground system. 1911 Act. Hearing Aug. 4. A. C. Faris, city clerk. E. A. Hoffman, city engineer.

OAKLAND, Cal.—City council declares intention to install ornamental street lighting system in 38th Ave. bet. Allendale Ave. and Liese Ave., involving 21 single-light standards together with underground system. 1911 Act. Hearing Aug. 7. Frank C. Merritt, city clerk. Walter Frickstad, city engineer.

REIWOOD CITY, San Mateo Co., Cal.—City Engineer C. L. Dimmitt is preparing specifications for ornamental street lighting system in Main St. from railroad tracks to El Camino Real, property owners having petitioned for the work.

MACHINERY AND EQUIPMENT

ALAMEDA, Alameda Co., Cal.—Until August 5, 8 P. M., bids will be received by Wm. G. Paden, Secretary, Board of Education, Room 9, City Hall, to furnish and deliver one radial drill. Certified check 10% payable to Alameda Board of Education required with bid. Further information obtainable from secretary.

EL CENTRO, Cal.—Until 2 P. M., August 4, bids will be received by the Imperial County Supervisors for one gasoline shovel, capacity $\frac{3}{4}$ to $1\frac{1}{2}$ yds., caterpillar type tractor for use of Road District No. 2. C. C. Mousseau, clerk of the board.

MADERA, Madera Co., Cal.—Until August 2, 8 P. M., bids will be received by Geo. H. Clark, Clerk, Howard School District, to furnish and deliver one new Chevrolet one and one-half-ton truck chassis equipped with extension frame and overload springs. Number 940, type 90, Wayne Bus, signals front and rear, driver controlled, rear bumper, dome lights, running lights (left side only), 32x6 H. D. tires on rear and 32x6 truck type on the front, all tires to be furnished with 32x6 puncture proof tubes. Certified check 10% required with bid. Further information obtainable from clerk, Route 3, Box 30, Madera.

PORTERVILLE, Tuare Co., Calif.—Lauren Motor Body Co., Fresno, awarded contract by Porterville Union High School District, to furnish motor school bus; 36-passenger capacity.

LAKEPORT, Lake Co., Cal.—Until August 7, 2 P. M., bids will be received by Mrs. Winifred Payne, Clerk, Clear Lake Union High School District, to furnish and deliver truck chassis of the following or equal specifications: Not less than 2-ton chassis; bus type motor, full pressure type lubrication system; double drop bus type frame; underslung bus type springs; four-wheel brakes; dual rear wheels and tires; wheelbase of sufficient length to accommodate present school bus body, known as Bus No. 1. Bids shall also specify amount which will be allowed as trade in value of old Motor Chassis. Estimate No. 19042, now in use by said School District and known as Bus No. 1. Further information obtainable from clerk.

BOONVILLE, Mendocino Co., Cal.—Until August 2, 8 P. M., bids will be received by Martha W. Rawles, Clerk, Anderson Valley Union High School District, to furnish and deliver two school busses, each having capacity of 30 pupils. Specifications obtainable from clerk.

COVINA, Los Angeles Co., Calif.—Until 7:30 P. M., August 4, bids will be received by the Covina Union High School District for furnishing one new special chassis, model 122, as manufactured by the Studebaker Corp. with a body built according to specifications of the school. Thos. B. Reed, clerk.

FULLETON, Orange Co., Calif.—Until 7:30 P. M., August 5, bids will be received by the city council for one motor truck chassis, including closed cab and dual wheels, of $1\frac{1}{2}$ -ton capacity. Spec. to be furnished by the bidder; one Ford pick-up, 1930 model, specification to be furnished by bidder. Certified check, 5%. F. C. Hiez-malhach, city clerk.

FULLETON, Orange Co., Calif.—Until 7:30 P. M., August 5, bids will be received by the city council for furnishing one 6 to 7 ton, 3-wheel roller, equipped with pressure spray on all wheels. Allowance must be made on one 12-ton Austin-Western road roller. Certified check 5%. F. C. Hiez-malhach, city clerk.

NAPA, Napa Co., Cal.—County Supervisors authorize purchase of a one-ton International motor truck for county road department.

RAILROADS

OAKLAND, Cal.—Worden & Forsythe, 264 Sybil Ave., San Leandro, at (a) \$2750 and (b) \$145 awarded contract by City Port Commission to track laying on Ninth Avenue Pier.

REDDING, Shasta Co., Cal.—Major A. E. McDennett and fifteen army engineers are at the site of the proposed \$80,000,000 Kennett dam on the upper Sacramento River, to start a survey for the Southern Pacific Railway line as it will be re-located to allow for the new dam reservoir. The proposed dam is to be 520 ft. in height. The first work will be to re-route the railway from the crest of the dam midway bet. Kennett and Coram toward Redding on the grade to the road as now located.

FIRE EQUIPMENT

EUREKA, Humboldt Co., Cal.—City council takes under advisement bids to furnish 1000 ft. of fire hose. Bidders were: H. L. Anderson for Eureka Fire Hose Co.; E. J. Biord for American Rubber Mfg. Co., and H. H. Buhne Co.

RESERVOIRS AND DAMS

LAKEPORT, Lake Co., Cal.—M. J. Russell, Lakeport, at 42 cents per yard awarded contract by city trustees to excavate for new reservoir. Excavation is to be seventy-one ft. and eight in. in dia. and twelve ft. eight in. deep, measuring from top of wall of old reservoir. Walls of excavation are to be perpendicular and hand faced; bottom to be sloped three in. to the north and hand faced for the concrete floor of reservoir. All earth removed is to be carried at least ten ft. from edge of excavation. Oakland Construction Co., 755 60th St., Oakland, only other bidder at \$119 yd.

VENTURA, Ventura Co., Calif.—V. Freeman, chief engineer of the Santa Clara River Const. District, has announced that the district has decided to build a storage dam to be built at French Flats in Piru Creek gorge. The proposed dam will be 150 ft. in height and 800 ft. in length.

AMADOR COUNTY, Cal.—Pacific Gas & Electric Co., 245 Market St., San Francisco, has filed application with the State Department of Public Works, Division of Water Resources, seeking authorization to use of the waters of the Tiger Creek and the East and West Forks of the Panther

Creek Amador County, for power purposes.

In the Tiger Creek application the company proposes to build a concrete diversion dam 105 feet high and 470 feet across the top.

The application for appropriating the Panther Creek waters calls for the use of 140 cubic feet per second, the use of 140 cubic per second, half from a dam on each fork. The water, from all the projects, would be used at the Tiger Creek, West Point and Electra Power Plants, and would be returned to the Mokelumne River, of which the above named creeks are the tributaries.

The construction would start six months after the approval and the project will be ready for use in four years.

IONE, Amador Co., Cal.—Following bids received July 22 by State Department of Public Works, Division of Architecture, to construct reinforced concrete dam for Preston School of Industry near Ione; dam will measure 192 ft. at the crest and approximately 600 cu. yds. of reinforced concrete: Geo. French Jr., Cherokee Lane, Stockton, \$14,300; S. P. Adams, 950 Evelyn St., Oakland, \$16,155; A. Fredrick Anderson, 1093 Longridge Road, Oakland, \$16,438; Dyer Constr. Co., Ray Bldg., Oakland, \$18,000; M. R. Peterson, 4530 Parker Ave., Sacramento, \$21,320; Utah Construction Co., Phelan Bldg., San Francisco, \$21,475; J. H. Bodenhamer, 4533 T St., Sacramento, \$23,807; Ward Engineering Co., 315 Montgomery St., San Francisco, \$26,200; Clinton-Stephenson Construction Co., Monadnock Bldg., San Francisco, \$28,151. Bids held under advisement.

OROVILLE, Butte Co., Cal.—County supervisors declare intention for improvements in Road Imp. District No. 1, involving the construction of a causeway, consisting of:

(a) Construction of causeway on a rolled earth fill approximately 30 ft. high and 230 ft. long, containing 8400 cu. yds. of embankment of assorted materials from three different sources: 1, 5000 cu. yds. of selected earth borrow to be placed in the rolled fill portion of the causeway.

2, 1100 cu. yds. of solid rock from the Swayne Logging Railway and the highway cut at the east end of the proposed fill, material to be placed on slopes of fill.

3, 2300 cu. yds. of rock and granular material from the widening of Lake-side Way, materials to be placed on the slopes of fill in a di highway approaches to fill.

(b) Clearing and grubbing timber and brush on site and approaches and moving present highway bridge.

(c) Stripping site of fill to bedrock to required width.

(d) Construction of cut-off trench to width required.

(e) Construction of 18 inches inside diameter reinforced concrete drainage conduit with timber control gate stand and placing control gate from outlet from old dam.

(f) Constructing three tube reinforced concrete syphon drainage culverts.

(g) Constructing highway approach at each end of fill.

(h) Reconstructing Swayne Logging Railroad (narrow gauge). Taking up and relaying 1400 ft. of main line track and 90 ft. of siding track. Moving and resetting water tank and camp buildings, tent floors and grading new camp sites.

(i) Regrading road connecting with Lakeside Way.

(j) Furnishing all material and labor, hauling, mixing, placing, laying out, assembling of materials, and all

construction work either temporary or permanent in connection with the work and delivering the entire work complete and ready for use.

(k) Constructing and maintaining a suitable detour of the present county road during construction of causeway. Work under County Improvement Act of 1921. Hearing August 5, C. F. Belding, county clerk. J. A. Baumgartner, county road engineer.

PIPE LINES, WELLS, ETC.

SAN FRANCISCO.—Until August 13 2:30 P. M., bids will be received by Board of Public Works to install Pleasanton Wells System, involving the drilling of a gravel envelope well; single well, 200-ft. in depth, involving: (1) 250 lin. ft. sinking test bore; (2) 60 lin. ft. 30-in. conductor pipe; (3) 250 lin. ft. reaming bore and furnishing and installing 14-inch casing with gravel envelope;

(4) 1 test pump and appurtenances; (5) 24 hours operating test pump. Estimated cost \$4050. Bond of \$2025 required of successful bidder. Specifications obtainable from Bureau of Engineering, 3rd floor, City Hall.

SEWERS AND SEWAGE DISPOSAL PLANTS

MONTREY. Monterey Co., Cal.—City Council has started proceedings for sewers in Grace St., bet. Prescott and Irving St.

RICHMOND. Contra Costa Co., Cal.—Jasper-Stacy Co., 216 Pine St., San Francisco, at \$139,946 awarded contract by city council (479) to construct combined storm and sanitary sewers in Dock Ave., bet. 10th St. and east termination of Dock Ave., etc., involving salt glazed vitrified clay pipe; centrifugally cast reinforced concrete pipe; cast iron pipe; salt glazed vitrified clay sewer pipe in timber cradle on piles; in concrete pipe jackets on piles; centrifugally cast reinforced concrete pipe in reinforced concrete cradle on piles; manholes; overflow structures; storm water inlets, etc. O. U. Miracle, San Diego, at \$99,209 submitted low bid for this project, but was permitted to withdraw his bid claiming error.

OAKLAND. Cal.—Gladding, McLean Co., 660 Market St., San Francisco, at approximately \$4000 awarded contract by city council to furnish and deliver sewer pipe for remainder of current fiscal year.

SAN MATEO. San Mateo Co., Cal.—City Clerk E. W. Foster will ask bids at once to construct extension to 35-in. sewer from Delaware to Humboldt St., as part of the Poplar Ave. outfall system.

LOS ANGELES. Cal.—Chas. H. Johnston, 947 North Orange Dr., Los Angeles, at \$334,136 awarded contract by Board of Public Works to construct sewers and storm drains in the Jefferson Storm Drain System, Section No. 3, including pave, curbs, gutters, etc.

WATER WORKS

LOS ANGELES. Cal.—Until 10 A. M. July 30, bids will be received by Los Angeles harbor department, City Hall, to furnish pumping equipment, motors, etc., for Fish Harbor salt water supply line under Spec. No. 865. The work includes furnishing, delivering and installing three 5000 G. P. M. salt water pumps, one 250-gallon centrifugal pump, motors and incidental equip-

ment and work. Information obtainable from harbor engineer, San Pedro Bart Edwards, general manager.

CLOVERDALE. Sonoma Co., Cal.—Until August 5, 8 P. M., bids will be received by N. S. Cobb, city clerk, to furnish pipe, hydrants, valves, services and appliances for extension to municipal water supply system and for labor necessary for installation. Plans on file in office of city clerk.

CHINO. San Bernardino Co., Cal.—Until 7:30 P. M., August 19, bids will be received by city clerk, M. L. Birnie, for furnishing a new turbine pump for well No. 1, City of Chino Municipal Water System. The pump is to be sunk to a depth of 230 ft. in a 16-inch hole. Spec. call for the delivery of 700 gallons per minute.

LOS ANGELES. Cal.—Proposal to vote a bond issue of from \$200,000,000 to \$250,000,000 for the Metropolitan Water District's aqueduct from Los Angeles Boulder Canyon Dam to Los Angeles and allied districts, may be placed on the November ballot if estimates can be prepared in the meantime. Selection of a route will be made in August.

SAN FRANCISCO.—Following bids received by Leonard S. Leavy, city purchasing agent, to furnish and deliver cast iron pipe, tar coated:

(a) 25,000 ft. 6-inch;
(b) 25,000 ft. 8-inch.

(1) Pacific States Cast Iron Pipe Co.
(2) U. S. Pipe and Foundry Co.
(3) Central Foundry Co.
(4) American Cast Iron Pipe Co.

(a) .5676 (1) .526 (2) .525 (3)
(b) no bid .744 .743 .74
American C. I. Pipe Co. submitted alternate bid of (a) \$.5783 and (b) \$.816 for cement lined pipe.

LOS ANGELES. Cal.—Until 3 P. M. July 22, bids will be received by the water and power commission for seamless steel tubing and couplings. Adv. 1377, involving:

(1) 1900 ft. 12-in. inside dia.;
(2) 1100 ft. 12-in.;
(3) 60 couplings.

SAN FRANCISCO.—Following bids received by City Purchasing Agent Leonard S. Leavy, under Proposal No. 614 to furnish and deliver f.o.b. Sharp Park, Salada Beach, San Mateo Co., centrifugally cast-iron bell and spigot pipe in 12-16- or 18-ft. lengths, together with fittings. Bidders and bids were:

(1) U. S. Cast Iron Pipe and Foundry Co. Monadnock Bldg., San Francisco (delivery 55 days).
(2) National Cast Iron Pipe Co., 671 Mission St., San Francisco (60 days).
(3) American Cast Iron Pipe Co., Balboa Bldg., San Francisco (50 days).

Fittings	(1)	(2)
14 10x10x4 B.S. & B. tees	\$17.75	\$17.20
31 10x10x3 do	16.70	20.50
28 10x10x2½ do	17.35	20.50
3 10x10x2 do	17.05	20.50
2 10x10x6 do	18.50	19.50
2 6x6x10 do	18.50	19.50
4 6x6x4 do	9.60	9.70
26 6x6x3 do	8.95	9.10
22 6x6x2½ do	8.70	9.95
3 6x6x2 do	8.40	9.95
1 6x10x10 all bell & tee	25.55	24.45
2 10-in. B&S 45° bends	10.60	10.60
4 6-inch do	5.55	5.55
4 6-in. B&S 22½° bends	5.55	5.55

Pipe	(1)	(2)	(3)
6,300-ft. 10-in. Class 200, metal thick ness, 48-in.	1.262	1.40	1.227
6,500-ft. 6-in. Class 150, metal thick ness, 36-in.	.567	.665	.579

SAN FRANCISCO.—Twenty-one bids were received by City Purchasing Agent Leonard S. Leavy, under Proposal No. 613, to furnish standard wrought steel pipe, galvanized, with threads and couplings, random lengths; delivery f.o.b. Salada Beach, San Mateo County. All bids were identical, as follows:

13,530-ft. 2 -in.	19.08
13,280-ft. 1½-in.	14.18
525-ft. 4 -in.	59.32
1,805-ft. 3 -in.	39.45
7,810-ft. 2½-in.	30.17

Bidders were: P. E. O'Hair & Co.; Petroleum Equip. Co.; Steam and Plumbing Service Co.; Grinnell Co. of the Pacific; M. Stulsaft; Daziel-Moller Co.; General Machinery & Supply Co.; Claussen & Co.; Dunham, Carrigan & Hayden Co.; Pacific Plumbing and Heating Co.; Marshall-Newell Co. Baker-Hamilton & Pacific; R. W. Gladings Supply Co.; Crane Co.; Richmond Sanitary Co.; Pacific Pipe Co.; Walworth Co.; Tay-Holbrook, Inc.; The Turner Co.; Federal Pipe and Supply Co.; Olsen and Hefferman.

EUREKA. Humboldt Co., Cal.—American Cast Iron Pipe Co., Balboa Bldg., San Francisco, awarded contract by City Council to furnish and deliver cast iron pipe:

5,000 ft. 8-in. \$4185
2,000 ft. 6-in. 1152
3,000 ft. 4-in. 1164

Bids are f. o. b. dock, Eureka. Other bidders were: United States Pipe & Foundry Co., Pacific States Cast Iron Pipe Co., and Grinnell Co.

ANTIOCH. Contra Costa Co., Cal.—City Council orders installation of 10-inch water mains in B St., between 6th and 10th Sts. Estimated cost \$2100. E. L. O'Hara, city engineer.

EL CAJON. San Diego Co., Calif.—Southern California Water Supply Co. (F. M. Faude, vice-president), room 1010 Bank of Italy Bldg., San Francisco, has filed application with the state for the appropriation of 18.6 cu. ft. per second water from Sweetwater river in San Diego county and 400,000 acre feet per annum storage for irrigation and domestic use near El Cajon, San Diego county. Work involves the installation of the following works:

Storage Dam—To be concrete construction, 204 ft. high, 800 ft. long on top with capacity of 35,000 ac. ft.

Pipe Lines—Involving the construction of the following to be welded steel or concrete:

35,000 lin. ft. 18-in. pipe line;
59,400 lin. ft. 25-in. pipe line.

The above work is to start 12 months after permit is granted and the work will take approx. 2 years to complete.

Approximately 500 acres of land are to be irrigated and the water is also to be used for domestic purposes for National City, Chula Vista, Coronado and unincorporated areas in the vicinity.

Plans and specifications are being prepared by Loveland Engineers, Inc., 485 California St., San Francisco.

PLAYGROUNDS & PARKS

PITTSBURG. Contra Costa Co., Cal.—Bids will be asked at once by city council to construct three tennis courts with asphalt type of pavement. Total estimated cost \$5200. Plans prepared by City Manager George Oliver.

STREETS AND HIGHWAYS

MARYSVILLE, Yuba Co., Cal.—Jemstreet & Bell, Marysville, at \$2.25 cu yd. awarded contract by county supervisors to furnish and spread crushed rock on north 6/10 miles of Willow Glen road, involving \$800 cubic yards. Mountfort & Armstrong, Sacramento, only other bidder at \$3.20 cu. yd.

LYON COUNTY, Nev.—Until Aug. 6, 2 P. M., bids will be received by State Highway Commission, Carson City, to grade, construct structures and place surfacing material on 23.22 miles between 3-miles north of Wells and Thousand Springs Creek. Plans obtainable from S. C. Durkee, state highway engineer at Carson City on deposit of \$15, of which \$10 is returnable. Plans on file in office of U. S. Bureau of Public Roads, 461 Market St., San Francisco. Certified check 5% required with bid.

KERN COUNTY, Cal.—A. Telchert & Son, 1846 37th St., Sacramento, at \$141,335 awarded contract by State Highway Commission to surface with oil treated crushed gravel or stone about 13.9 miles in length, between 1½ miles east of Cottonwood Creek and Democrat Springs.

OAKLAND, Cal.—City Council declares intention to improve portions of Hermosa Ave. and Broadway Terrace, involving grading; cement sidewalks, curbs, gutters; conduits; storm water inlets; sewers with manholes, etc.; wooden culvert. St. Imp. Act 1913. Hearing August 28. Frank C. Merritt, city clerk. Walter N. Frickstead, city engineer.

SAN FRANCISCO—C. L. Harney, Call Bldg., at \$1,501 awarded contract by Board of Public Works to grade portions of 44th Ave. bet. Ortega and Rivera Sts., and bet. Vicente and Sloat Blvd., Sunset Well System, involving 7500 cu. yds. excavation (3700 cu. yds. bet. Ortega and Rivera Sts and 4200 cu. yds. bet. Vicente St. and Sloat Blvd.)

SANTA BARBARA, Cal.—Until 10 A. M., August 14, bids will be received by the county for grading and construction of drainage of Section 1 Goleta Foothill Blvd., between Sta. 0+400 and Sta. 45+00. The engineer's estimate is \$17,000. Plans obtainable from the county surveyor, Owen H. O'Neill. D. F. Hunt, county clerk.

SAN LUIS OBISPO COUNTY, Cal.—Following bids received July 23 by State Highway Commission to grade and pave with cement concrete 3.0 miles between San Luis Obispo and foot of the Cuesta Grade:
Cornwall Constr. Co., 219 E. Mason St., Santa Barbara, \$30,829
Watson & Sutton, San Diego, 134,973
McCray Co., Los Angeles, 135,710
J. F. Knapp, Oakland, 140,660
W. A. Dontanville, Salinas, 142,556
T. M. Morgan Paving Co., L. A., 145,004
M. J. Bevanda, Stockton, 149,829
Ariss-Knapp Co., Oakland, 154,675
I. L. Ryder, San Jose, 174,292

REDWOOD CITY, San Mateo Co., Cal.—W. A. Dontanville, Salinas, submitted only bid at \$4336 to city council (M-8) to improve Chestnut St., between Heller and Stambaugh Sts., involving grading; 6-inch hydraulic cement concrete surface pavement; 3-inch broken stone base and 1-inch sand cushion; cement concrete curbs, gutters, sidewalks. Bond Act 1915. Imp. Act 1911. Taken under advisement.

MARIN COUNTY, Cal.—Following bids received July 23 by State Highway Commission to grade and surface with bituminous macadam, 1.3 miles between Belvedere Crossing and Tiburon:
Granfield, Farrar & Carlin, San Francisco, \$54,415
Sibley Grading & Teaming Co., San Francisco, 57,914
E. C. Coates, Sacramento, 58,735
Fredrickson & Watson & Fredrickson Bros., Oakland, 59,075
H. W. Rohl Co., Los Angeles, 65,487
Ariss-Knapp Co., Oakland, 70,799
J. P. Holland, San Francisco, 80,486
C. Emil Force, Piedmont, 88,245

TRACY, San Joaquin Co., Cal.—Steps are being taken to create a joint highway district for the proposed West Side Highway to extend from Tracy to Ventura County through the west section of the San Joaquin Valley. Lawrence Grady, secretary-manager of the Tracy Chamber of Commerce, is a member of the organization committee.

SAN MATEO, San Mateo Co., Cal.—Mike J. Sisevich, 1616 B St., San Mateo, at \$2257.50 awarded contract by city council to widen San Mateo Drive, between Second Ave. and Baldwin Ave. A. G. Raisch, San Francisco, only other bidder at \$2655.

GILROY, Santa Clara Co., Cal.—Hanrahan Co., Standard Oil Bldg., San Francisco, at \$54,958 submitted low bid to city council to improve portions of Hanna St., First St., Sixth St., Alexander St., etc., involving grading; asphalt concrete pavement; cement concrete curbs, gutters and walks; storm water sewer. 1911 Act. Bond Act 1915. Complete list of bids, taken under advisement until July 25, follows:
Hanrahan Co., San Francisco, \$54,958
Union Paving Co., S. F., 56,465
P. S. Harless, San Rafael, 58,131
California Rd. and St. Imp. Co., Fresno, 59,238
Central-California Roads Co., Oakland, 64,384
Ray Fisher is city engineer.

SOUTH SAN FRANCISCO, San Mateo Co., Cal.—Until August 18, bids will be received by D. McSweeney, city clerk, (71) to improve Linden Ave., between Railroad Ave. and Southern Pacific Company's Bay Shore Line involving grading; hydraulic cement concrete sidewalks, gutters, curbs; pavement consisting of 3-inch asphaltic concrete base; 6-in. waterbound rock macadam sub-base on cushion and 2-inch asphaltic concrete wearing surface; two steel reinforced hydraulic concrete bridges; inforced hydraulic concrete bridge; concrete box culvert; vitrified salt-glazed ironstone pipe sanitary sewer; brick manholes, catchbasins, electrolators, cement concrete wall. Estimated cost \$100,000. Improvement Act 1911. Bond Act 1915. Certified check 10% payable to city required with bid. Plans on file in office of clerk Geo. A. Kneese, engineer, Courthouse, Redwood City.

SAN MATEO, San Mateo Co., Cal.—Hanrahan Co., Standard Oil Bldg., San Francisco, at \$37,625.40 awarded contract by city council to improve 23rd and 24th Aves., Flores St., Florin and Isabelle Aves., involving grading; hydraulic concrete cement curbs, gutters, sidewalks; asphaltic concrete pavement; hydraulic cement concrete pipe storm water sewers; catchbasins; street relinf. box culvert; ornamental street lighting system. Bond Act

1915 Imp. Act 1911. Complete list of bids follows:
Hanrahan Co., San Francisco, \$37,625
Union Paving Co., S. F., 37,715
A. G. Raisch, S. F., 47,634

NAPA, Napa Co., Cal.—Until August 12, 10 A. M., bids will be received by James A. Daly, county clerk, for grading and surfacing road through Berryessa Valley. Certified check 10% payable to Chairman of the Board of Supervisors required with bid. Specifications on file in office of county clerk.

SAN JOAQUIN CO., Cal.—Clark & Henery Const. Co., Chancery Bldg., San Francisco, at \$57,147 awarded contract by State Highway Commission to grade and pave with asphalt concrete, 1.4 miles bet. Forest Lake and north boundary.

RIVERSIDE COUNTY, Cal.—Pearson and Dickerson, Riverside, at \$33,032.50 submitted low bid to U. S. Bureau of Public Roads, San Francisco, for oil processing 15.5 miles of Idyllwild National Forest Highway, Route 72 in San Bernardino National Forest, involving:

- (a) 15.5 miles prepare roadway;
 - (b) 365,000 gals. asphalt. oil (furnish and apply);
 - (c) 15.5 miles road mixing and compacting oil treated surface;
 - (d) 198 right of way monuments.
- Unit price bid follows:
(1) Pearson & Dickerson, Riverside, \$33,032.50.
(2) Street Imp. Co., Los Angeles, \$35,404.
(3) Engineer's Estimate, \$39,643.

	(a)	(b)	(c)	(d)
(1)	\$225	.057	\$500	\$5.00
(2)	225	.0513	800	4.00
(3)	300	.06	800	3.50

PLACER COUNTY, Calif.—As per SAN DIEGO COUNTY, Cal.—As previously reported, bids will be received August 13 by State Highway Commission to furnish and apply heavy fuel oil to roadbed on 8.4 miles between La Posta and Tecate Divide. Project involves 5,640 bbls. heavy fuel oil.

HAYWARD, Alameda Co., Cal.—City council declares intention (\$805) to improve portions of Smalley and Laurel Aves. and Belmar and Princeton Sts., involving:
(1) 165,450 sq. ft. 6-in. full penetration emulsified asphalt macadam paving (including grading);
(2) 10,723 lin. ft. concrete curbing;
(3) 21,202 sq. ft. concrete gutter;
(4) 42,850 sq. ft. concrete sidewalks;
(5) 1,257 lin. ft. 6-in. vitrified sanitary sewer;
(6) 1,350 lin. ft. 4-in. vitrified side sewer;
(7) 36 4x6-in. wye branches;
(8) 4 vit. pipe lampholes with concrete and c. i. frames;
(9) 340 lin. ft. concrete and part circle corr. iron drain culverts
(10) 137 lin. ft. rawwood header boards
1911 Act. Hearing Aug. 6. M. E. Templeton, city clerk. Jesse B. Holly, city engineer.

REDWOOD CITY, San Mateo Co., Cal.—W. A. Dontanville, Salinas, at \$1943 submitted only bid to city council (M-9) to improve Maple Street, bet. Main Street and Dilliers Addition, involving grading; 6-inch hydraulic cement concrete surface pavement; 3-inch broken stone base and 1-inch sand cushion; hydraulic concrete cement curbs; 4-in. hydraulic cement concrete sidewalks; 2 hydraulic cement concrete storm water inlets; cement concrete gutters. Bond Act 1915. Imp. Act 1911. Taken under advisement.

REDDING, Shasta Co., Cal.—County Surveyor Carl F. Mau making surveys for proposed new road from Shingle-ton to Viola.

SACRAMENTO CO., Cal.—Fredrickson & Watson and Fredrickson Bros., 354 Hobart St., Oakland, at \$89,029 awarded contract by State Highway Commission to grade and pave with Portland cement concrete 2.6 miles between one mile south of Arno and Co-sumnes river.

ELY, Nevada—City council has sold the \$40,000 bond issue to finance oiling of various streets. Bids for the oiling will be asked at once.

STOCKTON, San Joaquin Co., Cal.—George J. French Jr., Stockton, at \$33,658 awarded contract by county supervisors to construct Bacon Island road over Upper Jones Tract. Other bids: Louis Moering, Stockton, \$34,755; Pereira & Reed, Stockton, \$34,481. Will be 4 miles long, 16 ft. wide, gravel surfacing.

MILL VALLEY, Marin Co., Cal.—Town trustees reject bids received July 15 to improve Summit Ave., Lovell Ave. and Cornelia St. and various other streets, involving vitrified pipe sewer; hydraulic concrete manholes; lampholes; wye branches and lateral; hydraulic concrete retaining wall; arch culverts; hydraulic conduit inlet. Project involved 210,-

000 sq. ft. asphalt concrete and 40,000 sq. ft. hydraulic concrete pavement. New proceedings will be started at once and plans prepared for hydraulic concrete pavement in the entire district. Work under 1911 Act and Bond Act 1915. A. G. Ralsch, 46 Kearny St., San Francisco, was low bidder at \$88,232. E. H. Lacey is town engineer.

SANTA ROSA, Sonoma Co., Cal.—Clark & Henery Construction Co., Chancery Bldg., San Francisco, bidding 20½ cu. yds. for grading and macadam paving; 85c lin. ft. for combined curb and gutter; 35c ft. for curb, alone; 60c lin. ft. for gutters and 20c sq. ft. for sidewalks, awarded contract by city council to improve:

Nason Street, bet King and Wright Sts., involving grading; 4-in. macadam base; 3-in. asphaltic concrete surface pavement; hyd. cem. concrete curbs, walks and gutters. Construct and furnish material in extending Fourteenth St. to Wright Street.

Construct extension to Fourteenth St. to Wright St.

MARYSVILLE, Yuba Co., Cal.—City council rejects bids to grade 115 acres of Cheim Airport site, lowest bidder being M. J. Treaster of Sacramento at \$57.50 per acre. The work will be done by Hemstreet & Bell of Marysville on the day labor basis.

LOS ANGELES AND ORANGE COUNTIES, Cal.—Until August 13, 2 P. M., bids will be received by State Highway Commission to grade and pave with Portland cement concrete and bituminous macadam, 3.1 miles between Anaheim St. and Seal Beach. See call for bids under official proposal section in this issue.

ORANGE COUNTY, Cal.—Until August 13, 2 P. M., bids will be received by State Highway Commission to grade and pave with Portland cement concrete, 3.3 miles from Seal Beach to Sunset Beach.

See call for bids under official proposal section in this issue.

LOS ANGELES COUNTY, Cal.—Until August 13, 2 P. M., bids will be received by State Highway Commission to construct a reinforced concrete girder bridge over the San Gabriel river near Seal Beach, consisting of seven 57 ft. spans on concrete piers with pile foundations.

See call for bids under official proposal section in this issue.

SAN DIEGO COUNTY, Cal.—Until August 13, 2 P. M., bids will be received by State Highway Commission to furnish and apply heavy fuel oil to roadbed on 8.4 miles between La Posta and Tecate Divide.

See call for bids under official proposal section in this issue.

SANTA BARBARA & SAN LUIS OBISPO COUNTIES, Cal.—Until August 13, 2 P. M., bids will be received by State Highway Commission to grade and surface with oil treated crushed gravel or stone, 37.9 miles between the second crossing of the Cuyama River and the east boundary of San Luis Obispo County.

See call for bids under official proposal section in this issue.

PLACER COUNTY, Cal.—Until August 13, 2 P. M., bids will be received by State Highway Commission to construct 53½ linear feet of tunnel and about 1.0 mile of roadway to be graded and surfaced with crusher run base and oil treated crushed gravel or stone surfacing.

See call for bids under official proposal section in this issue.

PITTSBURG, Contra Costa Co., Cal.—City Council petitioned to improve streets in the Green Addition and the Di Piazza Addition, involving sewers, concrete paving, curbs, gutters and walks. Streets included are all of Grossitto, Monterella and Brennan Aves., 1 block of C St. and 2 blocks in D St. Petitions are in circulation seeking paving of 6th St., bet. J and K; 9th St., bet. A and C and J St., bet. 2nd and 3rd Sts. E. L. O'Hara is city engineer.

MONTEREY, Monterey Co., Cal.—Clark & Henery Construction Co., Chancery Bldg., San Francisco, at 13c sq. ft. awarded contract by city council to improve Harrison St., bet. Clay and High Sts., involving grading; paving with asphalt concrete wearing surface 2 inches in thickness.

MARYSVILLE, Yuba Co., Cal.—Until July 28, 8 P. M., bids will be received by Chester O. Gates, city clerk (37) to improve portions of 12th St., E. St., B St., involving removal of concrete curbs and sprinkler system, remove trees, grading; pave with 2½-in. asphalt concrete base with 1½-in. Warrenite-Bit. surface; concrete curbs, gutters. 1911 Act. Bond Act 1915. Certified check 10% payable to city required with bid. Specifications on file in office of clerk.

TEHAMA CO., Cal.—Nate Lovelace, Sacramento, at \$99,763.50 submitted low bid to U. S. Bureau of Public Roads, San Francisco, to grade Section A, Route 21, Deed Creek National Forest Highway in Lassen National Forest, 3.4 miles in length, involving:

(1) Nate Lovelace, Sacto.....\$ 89,763.50
(2) B. E. Boyd, San Diego.....101,544.50
(3) Chas. Harlowe, Jr., Oakland.....104,994.35
(4) Kennedy - Bayles Const. Co., Biggs.....105,937.35
(5) Jasper-Stee Co., S. F.....117,280.35
(6) H. H. Boomer, S. F.....128,220.40
(7) Engineer's estimate 91,610.50

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
(a)	\$350.00	\$150.00	\$350.00	\$300.00	\$400.00	\$200.00	\$250.00
(b)	0.65	0.70	0.68	0.70	0.76	0.85	0.60
(c)	1.25	1.50	2.50	2.50	2.60	2.00	2.00
(d)	0.03	0.04	0.05	0.03	0.03	0.04	0.04
(e)	250.00	200.00	200.00	300.00	400.00	700.00	250.00
(f)	2.00	3.00	0.75	2.00	1.50	1.20	0.50
(g)	4.00	20.00	15.00	25.00	30.00	15.00	18.00
(h)	2.25	2.20	2.00	1.85	2.10	3.00	1.85
(i)	3.00	4.50	2.75	2.65	3.00	4.00	2.85
(j)	3.75	4.00	3.50	3.40	4.00	5.00	3.50
(k)	4.50	5.00	5.50	6.00	5.50	6.00	5.40
(l)	4.00	2.00	5.00	2.00	3.25	4.00	4.00
(m)	3.50	5.00	5.00	3.50	3.00	4.00	3.50

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EUREKA, Humboldt Co., Cal.—Chamber of Commerce petitions city council to start proceedings to widen Broadway from Buckspart to Wabash, a width of 100 ft. Taken under advisement.

RIVERSIDE COUNTY, Cal.—Steele Minley, Santa Ana, at \$34,402 awarded contract by State Highway Commission to widen about 6.2 miles of existing roadbed between northerly boundary and one mile west of Beaumont.

ANTIOCH, Contra Costa Co., Cal.—City council petitioned to grade and pave streets in Wills Addition. Concrete paving is specified. Streets included are: Empire Ave. from Wills Ave. to its west end; Brennan Ave. east end and Wills Ave. from Empire from Wills Ave. to its west end; Morterola Ave. from Wills to its east end; Grossotto Ave. from Wills Ave. to its Ave. to Grossotto Ave.

SANTA BARBARA, Cal.—City Engineer E. B. Brown estimates cost of proposed widening of Milpas St. from Canyon Perdido St. to E Cabrillo Blvd. The paving, curbs, gutters, walks and lighting conduits will cost approx. \$62,500, and ornamental lighting standards, \$36,000.

MONO COUNTY, Cal.—L. C. Pulley, 1960 Alamitos St., Long Beach, at \$4,951.50 submitted low bid to F. G. Somner, district engineer, Sta. Highway Commission, to furnish and apply 1,230 barrels of heavy fuel oil as a dust layer on 8.8 miles between Mono Lake and the foot of Conway Grade.

HAYWARD, Alameda Co., Cal.—City council declares intention (\$805) to improve portions of Smalley Ave., Laurel Ave., Belmar and Princeton Sts., involving grading; 6-inch emulsified asphaltic macadam pave.; cement concrete curbs, gutters and walks; cement manholes; and pure iron part circle drain culverts; vit. clay pipe san. sewers; cem. conc. lampholes. 1911 Act. Hearing August 6. M. B. Templeton, city clerk. Jesse B. Holly, city engineer.

OROVILLE, Butte Co., Cal.—Until August 5, 2 P. M., bids will be received by C. F. Belding, county clerk, to grade Lumpkin road, involving 13,800 cubic yards of earthwork, unclassified, being ½-mile in length. Certified check 10% required with bid. Specifications obtainable from J. A. Baumgarner, county road engineer.

KING CITY, Monterey Co., Cal.—Until August 11, 8 P. M., bids will be received by J. A. Wasson, city clerk (6) to improve portions of First St., involving grading; hyd. concrete curbs; 5-in. hyd. cem. conc. pavement. 1911 Act. Bond Act 1915. Certified check 10% payable to city required with bid. Plans on file in office of clerk. Howard Cozens, Court House, Salinas, engineer.

OAKLAND, Cal.—City council declares intention to improve portions of Dowling St. and Hillside St., adjacent to 88th Ave., involving grad; curbs; gutters; walks; culverts; storm water drainage system; sewers with appurtenances. 1911 Act. Hearing Aug. 7. Frank C. Merritt, city clerk. Walter N. Frickstad, city engineer.

MARTINEZ, Contra Costa Co., Cal.—Until August 4, 11 A. M., bids will be received by J. H. Wells, County Clerk, (3) to widen Lowell Ave. from 36th St. to San Pablo Ave., and 36th St., bet. Lowell and Andrade Ave., involving grading; Durite asph. conc. pavement on broken rock cushion; cem. conc. curbs, gutters; vit. ironstone sewers; br. and conc. manholes. Acq. and nap. Act. 1925.

Certified check 10% payable to County required with bid. Plans obtainable from Edw. A. Hoffman, engineer, City Hall, Richmond, and on file in office of clerk.

YOLO COUNTY, Cal.—Jones & King Hayward, at \$129,575 awarded contract by State Highway Commission, to grade and pave with asphalt concrete about 5.8 miles between Bretona and Dunnigan.

LOS ANGELES CO., Calif.—Southwest Paving Co., Washington Bldg., Los Angeles, at \$134,330 awarded contract by State Highway Commission to surface about 12.6 miles with bituminous macadam between 1.2 miles and 13.9 miles north of Castale School.

DEL NORTE COUNTY, Cal.—Hemstreet and Bell, Marysville, at \$88,405 awarded contract by State Highway Commission to surface with oil treated gravel or stone (road mixed) about 12.7 miles between southerly boundary and Wilson Creek.

REDWOOD CITY, San Mateo Co., Cal.—County supervisors declare intention (23) to improve Oak Knoll Dr. from Lake Blvd. and Vista Dr. northerly, involving grading; 4-in. water-bound rock macadam base with 3-in. asph. conc. surface; guard rails; 6-in. vit. san. sewers; 30-in. hyd. cem. conc. pipe spillway or storm drain; brick manholes. 1911 Act. Hearing Aug. 4. Elizabeth M. Kneese, county clerk. G. A. Kneese, county surveyor.

REDDING, Shasta Co., Cal.—Until August 1, bids will be received by directors of Joint Highway District No. 11 to construct Weed-Klamath road project (1st unit), comprising Section from Station 0 plus 60 to 142 plus 15, involving:

- (1) 9.8 acres clearing;
- (2) 51.44 cu. yds. unclass. excavation;
- (3) 113 cu. yds. unclass. excavation for structures;
- (4) 21,803 sta. yds. overhaul;
- (5) 2.8 miles finishing earth graded road;
- (6) 8.52 cu. yds. class C concrete;
- (7) 91 lbs. reinforcing steel;
- (8) 582 lin. ft. 18-in. G. C. M. P.

Estimated cost \$65,000. Plans obtainable from Carl F. Mau, district engineer at Redding.

SAN CARLOS, San Mateo Co., Cal.—Until August 4, 8 P. M., bids will be received by A. Simpson, clerk, San Carlos Elementary School District, for grading and paving school yard in Elm St. bet. Cypress Ave. and Cherry St. Certified check 10% payable to clerk required with bid. Plans obtainable from E. L. Norberg, architect, at 407 Occidental Ave., Burlingame, or 580 Market St., San Francisco, on deposit of \$5, returnable.

OFFICIAL PROPOSALS

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received at the office of the State Highway Engineer, Public Works Building, Sacramento, California, until 2 o'clock P. M., on August 13, 1930, at which time they will be publicly opened and read, for construction in accordance with the specifications therefor, to which special reference is made, of portions of State Highway, as follows: Humboldt County, an overhead crossing over the tracks of the Northwestern Pacific Railroad about 2½ miles north of Beatrice (1-Hum-1-G), consisting of two 61 ft. 7-in. through plate girder spans, one 40 ft. 0 in. steel beam span and approximately 450 feet of timber trestle approach.

Pierce County, through Newcastle, (11-Pla-17-B), consisting of five hundred thirty-one (531) lineal feet of tunnel and about one (1.0) mile of roadway to be graded and surfaced with crusher run base and oil treated crushed gravel or stone surfacing.

Santa Barbara and San Luis Obispo Counties, between the second crossing of the Cuyama River and the Easterly Boundary of San Luis Obispo County (V-S.B-SLO-57-B,C & D), about thirty-seven and nine-tenths (37.9) miles in length, to be graded and surfaced with oil treated crushed gravel or stone.

San Diego County, between La Posta and Tecate Divide (VII-S.D-12-F), about eight and four-tenths (8.4) miles in length, heavy fuel oil to be furnished and applied to the roadbed.

Los Angeles County, a reinforced concrete girder bridge across San Gabriel River near Seal Beach (VII-L.A-60-F), consisting of seven 57-ft. spans on concrete piers with pile foundations.

Orange County, from Seal Beach to Sunset Beach (VII-Or-60-A), about three and three-tenths (3.3) miles in length, to be graded and paved with Portland cement concrete.

Los Angeles and Orange Counties, between Anaheim Street and Seal Beach (VII-L.A-Or-60-F & A), about three and one-tenth (3.1) miles in length, to be graded and paved with Portland cement concrete and bituminous macadam.

Proposal forms will be issued to only those Contractors who have furnished verified statement of experience and financial condition in accordance with the provisions of Chapter 644, Statutes 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Bids will not be accepted from

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a Contractor to whom a proposal form has not been issued by the Department of Public Works.

Plans may be seen, and forms of proposal bonds, contract and specification may be obtained at the said office, and they may be seen at the offices of the District Engineers at Los Angeles and San Francisco, and at the office of the District Engineer of the district in which the work is situated. The District Engineers' offices are located at Eureka, Redding, Sacramento, San Francisco, San Luis Obispo, Fresno, Los Angeles, San Bernardino and Bishop.

A representative from the district office will be available to accompany prospective bidders for an inspection of the work herein contemplated, and Contractors are urged to investigate the location, character and quantity of work to be done, with a representative of the Division of Highways. It is requested that arrangements for joint field inspection be made as far in advance as possible. Detailed information concerning the proposed work may not be obtained from the district office.

No bid will be received unless it is made on a blank form furnished by the State Highway Engineer. The special attention of prospective bidders is called to the "Proposal Requirements and Conditions" annexed to the blank form of proposal, for full directions as to bidding, etc.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

DEPARTMENT OF PUBLIC WORKS,
DIVISION OF HIGHWAYS,
C. H. PURCELL,
State Highway Engineer.
Dated July 16, 1930.

NOTICE TO CONTRACTORS

Mechanical Work

SEALED BIDS will be received by Geo. B. McDougall, State Architect, Public Works Building, 11th and P Streets, Sacramento, California, up to 2 o'clock P. M., Tuesday, Aug. 19, 1930, thereafter on said day to be publicly opened and read for the installation and completion of the Mechanical Work for the Men's Gymnasium Building, San Jose State Teachers' College, San Jose, California, in accordance with plans and specifications therefor.

Mechanical Work includes Plumbing, Heating, Ventilation and Electrical Work. Separate bids will be received for "Electrical Work" and for "Plumbing, Heating and Ventilation Work." Combined bids will also be received covering all four branches of the work.

Plans and specifications are on file for examination in the office of the Division of Architecture, Public Works Building, Sacramento, California, and also at Room 1025 Associated Realty Building, Los Angeles, and at the principal California Cities Builders' Exchange Offices.

Plans, specifications, and proposal forms may be secured by licensed Contractors who have qualified or who will qualify by furnishing a verified statement of experience and financial condition as required by the provisions of Chapter 644, Statutes 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Questionnaire forms may be secured from the Division of Architecture.

Bids will not be accepted from a Contractor to whom a proposal form has not been issued and all bids must be on proposal forms supplied by the State.

Requests for plans shall be accompanied by a deposit of twenty-five

(\$25.00) dollars. Check shall be made payable to the Department of Public Works, Division of Architecture. Deposit will be returned upon receipt of the set in good condition at Sacramento Office of the Division within 30 days after opening bids, otherwise it will be forfeited to the State.

All bids must be filed at the office of the State Architect on or before the time heretofore stated and in accordance with the "Rules for Bidding" accompanying the proposal form.

No bid will be considered unless cash, a bidder's bond made payable to the State of California, or a certified check made payable to the "State Engineer, Department of Public Works," in the sum of at least ten per centum (10%) of the amount of the bid is enclosed with the bid.

The Division of Architecture, State Department of Public Works, reserves the right to reject any or all bids and to waive any informality in any bid received.

STATE DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE
GEO. B. McDOUGALL,
State Architect.
R. B. MEEK,
Director of Public Works.

NOTICE TO CONTRACTORS

General Work

SEALED BIDS will be received by Geo. B. McDougall, State Architect, Public Works Building, 11th and P Streets, Sacramento, California, up to 2 o'clock P. M., Tuesday, Aug. 19, 1930, thereafter on said day to be publicly opened and read for the erection and completion of the General Work for the Men's Gymnasium Building, San Jose State Teachers' College, San Jose, California, in accordance with plans and specifications therefor.

The building is a reinforced concrete structure with brick veneer base, frame interior partitions, steel roof construction and tile roof. The total floor area is approximately 35,500 sq. ft.

Plans and specifications are on file for examination in the office of the Division of Architecture, Public Works Building, Sacramento, California, and also at Room 1025 Associated Realty Building, Los Angeles, and at the principal California Cities Builders' Exchange Offices.

Plans, specifications, and proposal forms may be secured by licensed General Contractors who have qualified or who will qualify by furnishing a verified statement of experience and financial condition as required by the provisions of Chapter 644, Statutes 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Questionnaire forms may be secured from the Division of Architecture.

Bids will not be accepted from a Contractor to whom a proposal form has not been issued and all bids must be on proposal forms supplied by the State.

Requests for plans shall be accompanied by a deposit of twenty-five (\$25.00) dollars. Check shall be made payable to the Department of Public Works, Division of Architecture. Deposit will be returned upon receipt of the set in good condition at Sacramento Office of the Division within 30 days after opening bids, otherwise it will be forfeited to the State.

All bids must be filed at the office of the State Architect on or before the time heretofore stated and in accordance with the "Rules for Bidding" accompanying the proposal form.

No bid will be considered unless cash, a bidder's bond made payable to the State of California, or a certified check made payable to the "State Engineer, Department of Public Works,"

in the sum of at least ten per centum (10%) of the amount of the bid is enclosed with the bid.

The Division of Architecture, State Department of Public Works, reserves the right to reject any or all bids and to waive any informality in any bid received.

STATE DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE
GEO. B. McDOUGALL,
State Architect.
R. B. MEEK,
Director of Public Works.

COORDINATION OF CODES OF BUILDING GROUPS

Coordination of the professional codes of the architects, engineers and contractors of Southern California has been decided on by these groups following a number of joint conferences. These conferences were begun at the suggestion of James P. Collins, director of the California State Department of Professional and Vocational Standards, who expressed the belief that business standards would be advanced by the cooperation of the groups on their mutual problems.

The plan for coordination is to have the contractors', engineers' and architects' associations appoint delegates who will attend meetings at which disputes involving the different professions may be arbitrated. The organizations cooperating in this work are the Southern California Chapter of the Associated General Contractors, Los Angeles section; American Society of Civil Engineers, Los Angeles Chapter; American Association of Engineers, Southern California Chapter; American Institute of Architects, State Association of California Architects and the Los Angeles Builders' Exchange.

PLAN TO ELIMINATE BID PEDDLING EVIL

A plan for eliminating the evil of bid peddling has been adopted by a firm of architects in Ohio which is designed to protect the owner against the danger of having the materials put in his building cheapened. The method followed is to specify that the general contractor submit the names of his subcontractors and the amount of their bids when he submits the general contract.

The general contractor is permitted to substitute any subcontractor with the consent of the architect, but if the substitute's bid is lower than that of the original bidder the difference between the two is deducted from the general contract. It is claimed that this system eliminates the danger of the work being slighted and benefits the responsible contractor who is often forced to turn to bid peddling in order to meet the prices offered by the irresponsible contractor.

NEW INCINERATOR ANNOUNCED

The Welded Products Corp. of Kansas City, Mo., has developed an incinerator plant said to be both odorless and noiseless. This incinerator will burn all types of rubbish and garbage—wet or dry—up to a fine ash. A frequent arrangement is a small receiving door to the kitchen which carries the rubbish directly to the incinerator, saving many steps to the former unsanitary garbage can and unsightly trash heap.

The incinerator is designed to operate either through the furnace or with a separate stack. This makes its application simple for either old or new installations. There is a full range of sizes available, suitable for the smallest cottage or the largest apartment.

Contracts Awarded

Liens, Acceptances, Etc.

BUILDING PERMITS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
906	Adams	Horstmeyer	3900
907	Bernstein	Mullen	9500
908	Carlson	Owner	4000
909	Eposito	Callaghan	1035
910	Friedman	Owner	1000
911	Hitchcock	Erickson	4000
912	Janssen	Owner	8090
913	Keast	Cobby	3000
914	Roberts	Owner	1000
915	S F Home	Owner	14000
916	Silverberg	Owner	8000
917	Shuteroff	Owner	5000
918	Hagmark	Sorensen	4300
919	Hallegren	Owner	4000
920	Independent	Relly	75000
921	Meyer	Owner	4000
922	Meyer	Owner	8000
923	Meyer	Owner	4000
924	Meyer	Owner	4000
925	Meyer	Owner	5000
926	P. G. & E. C.	Owner	72500
927	Grahn	Owner	4000
928	Killsingpor	Owner	10000
929	Olsen	Owner	4000
930	Sergo	Owner	4000
931	Sperow	Verner	4950
932	Anderson	Owner	3000
933	Anderson	Owner	25000
934	Bruce	Owner	18000
935	Elkington	Owner	5000
936	Janssen	Owner	5000
937	Roe	Mullen	2700
939	Campbell	Owner	4000
940	Forester	De Velbiss	1900
941	Lekas	Psychogios	1000
942	Morris	Owner	4000
943	Stein	Owner	23000
944	Sharman	Owner	2400
945	Walters	Owner	3500

Correction in Name.

DWELLING

(897) S 29th ST. 130 W Noe; two-story and basement frame dwelling.

Owner—P. T. Flannery, 565 29th St.
Architect—J. Michael, 762 De Haro St.
Contractor—Michael & Bomerer, 762 De Haro St. \$5000

ALTERATIONS

(906) 40 COLLINGWOOD ST.; alterations to two flats.

Owner—A. Adams, 2610 Market St.
Architect—None.
Contractor—W. Horstmeyer Co., 31 Ord St. \$3900

ALTERATIONS

(907) W POWELL ST. 150 N Ellis; alterations for restaurant.

Owner—Maurice Bernstein, 123 Powell Street.
Architect—A. Heinemann, 437 S Hill St., Los Angeles.
Contractor—Mullen Manufacturing Co., 60 Rausch St. \$9500

DWELLING

(908) W 21st AVE. 25 N Lawton; 1-story and basement frame dwelling.

Owner—J. Carlson, 2239 Bryant St.
Plans by D. E. Jackle, Call Bldg. \$4000

ALTERATIONS

(909) 1344 GEARY ST.; alterations to re-roof.

Owners—Mr. and Mrs. Eposito, 1341 Geary St.
Architect—None.
Contractor—J. Callaghan, 900 Clayton Street. \$1683

ALTERATIONS

(910) 1315 POLK ST.; alterations to hotel apartments.

Owner—Estate of L. Friedman, 1315 Polk St.
Architect—S. Helman, 605 Market St. \$10,000

DWELLING

(911) NE CHENERY 50 SE Elk; 1-story and basement frame dwelling.

Owner—D. C. and G. Hitchcock, 1273 Alemany Blvd.
Architect—None.
Contractor—H. Erickson, 972 Chenery. \$4000

FLATS

(912) N CHESTNUT 168 W Divisadero; two-story and basement frame (2) flats.

Owner and Builder—E. A. Janssen, 811 Hearst Bldg.
Plans by Owner. \$8000

ALTERATIONS

(913) 40 FIFTH AVE.; alterations to dwelling.

Owner—G. R. Keast, 40 5th Ave.
Architect—H. C. Smith, Humboldt Bank Bldg.
Contractor—J. W. Cobby & Son, 260 Tehama St. \$3000

OFFICE

(914) 2230 48th AVE.; 1-story frame office for golf course.

Owner—D. T. Roberts, Inc., 220 Great Highway.
Architect—None. \$1000

DWELLINGS

(915) SE 4th AVE. and Kirkham St.; four 1-story and basement frame dwellings.

Owner—San Francisco Home Bldg. Co., 2742 Mission St.
Architect—Chas. F. Strothoff, 2274 15th Street. each \$3500

ALTERATIONS

(916) SE POLK and Sacramento Sts.; alterations to front of apts. and to first floor for stores.

Owner—Mrs. A. Silverberg, % architect.
Architect—B. J. Joseph, 74 New Montgomery St. \$8000

APARTMENTS

(917) W KANSAS 125 S 22nd St.; 2-story & basement frame (3) apts.

Owner—G. Shuteroff, 1047 Kansas St.
Plans by H. Heishfeld, 1563 Church St. \$5000

DWELLING

(918) S ROOSEVELT 172 S Levans; two-story and basement frame dwelling.

Owner—N. Hagmark, 2657 Harrison Street.
Architect—D. A. Rledy, Pacific Bldg.
Contractor—Sorensen and Hagmark, Harrison St. \$4300

DWELLING

(919) E 21st AVE 25 N Lawton; one-story and basement frame dwelling.

Owner—A. Hallegren, 1594 29th Ave.
Architect—None. \$4000

LODGE

(920) N VALENCIA near Duboce; three-story and basement concrete lodge (40 rooms).

Owner—Independent Order of Foresters, 172 Golden Gate Ave.
Architect—H. G. Stoner, San Mateo.
Contractor—F. J. Relly, 6350 Fulton Street. \$75,000

DWELLING

(921) NE COR. ROCKDALE AND Isola; one-story and basement frame dwelling.

Owner—Meyer Bros., 727 Portola Dr.
Architect—None. \$4000

DWELLINGS

(922) E 22nd AVE. 75 S Vicente; 2 one-story and basement frame dwellings.

Owner—Meyer Bros., 727 Portola Dr.
Architect—None. each \$4000

DWELLING

(923) E 22nd AVE. 25 S Vicente; 1-story and basement frame dwelling.

Owner—Meyer Bros., 727 Portola Dr.
Architect—None. \$4000

DWELLING

(924) SE 22nd AVE. and Vicente 1-story and basement frame dwelling.

Owner—Meyer Bros., 727 Portola Dr.
Architect—None. \$4000

DWELLING

(925) NE 22nd AVE. & Wawona; 1-story and basement frame dwelling.

Owner—Meyer Bros., 727 Portola Dr.
Architect—None. \$5000

SUB-STATION

(926) SW NINETEENTH ST. AND San Carlos Ave. Three-story steel frame concrete sub-station.

Owner—Pacific Gas & Electric Co., 245 Market St., San Francisco.
Architect—None. \$72,500

DWELLINGS

(927) SE TOCOLOMA & BLANKEN; five 1-story and basement frame dwellings.

Owner—W. H. Grahn, 2965 Mission St.
Architect—None. each \$4000

APARTMENTS

(928) E 26th AVE. 150 N Taraval St.; two-story and basement frame (4) apartments.

Owner and Builder—H. S. Kilsingpor, 2953 Washington St.
Architect—None. \$10,000

CAPITAL CITY TILE COMPANY

J. C. PALEN

Manager

914 Seventh Street

Sacramento - - - California

DWELLING

(929) W ANDOVER 80 S Newman; 1-story and basement frame dwelling.
Owner—T. Olsen, 519 California St.
Architect—None. \$4000

DWELLING

(930) S SANTIAGO 95 E 15th Ave.; one-story and basement frame dwelling.
Owner—A. Sergio, 2239 26th Ave.
Architect—None. \$4000

DWELLING

(931) S NEWCOMB 125 W Newhall; one-story and basement frame dwelling.
Owner—J. A. Sperow, 507 Gough St.
Architect—G. Berger, Valencia St. and 14th Street.
Contractor—J. H. Verner, 400 Staples Avenue. \$4950

DWELLING

(932) S VICENTE 27 E 15th Ave.; 1-story and basement frame dwelling.
Owner—C. Andersen.
Architect—None. \$3000

APARTMENTS

(933) W 25th AVE. 100 S Cabrillo; 3-story and basement frame (12) apts.
Owner and Builder—F. Anderson, 1320 22nd Avenue.
Architect—Irvine & Ebbets, 74 New Montgomery St. \$25,000

RESIDENCE

(934) S JACKSON 225 W Cherry; 2-story and basement frame residence.
Owner—Mrs. Starr Bruce, 3055 Pacific Avenue.
Architect—Morris J. Bruce, 859 Flood Building. \$18,000

DWELLING

(935) E 18th AVE. 175 S Quintara; two-story and basement frame dwelling.
Owner—G. J. Elkington & Sons, 330 Vicente St.
Architect—C. F. Strothoff, 2274 15th St. \$5000

DWELLING

(936) W RETIRO 50 N Beach; two-story and basement frame dwelling.
Owner—E. A. Janssen, 811 Hearst Building.
Architect—None. \$5000

ALTERATIONS

(937) E MONTGOMERY ST. 100 S Pine; alterations for restaurant.
Owner—W. A. Roe, 473 Ellis St.
Architect—None.
Contractor—Mullen Manufacturing Co., 60 Rausch St. \$2700

FLATS

(938) E DIAMOND 75 N 18th St.; 2-story & basement frame (2) flats.
Owner—James F. and Frieda Allen, 75 Eureka St.
Architect—None.
Contractor—Arvid Peterson, 1620 8th Avenue. \$9900

DWELLING

(939) N IDORA 430 E Laguna Honda Blvd.; one-story and basement frame dwelling.
Owner—J. V. Campbell, 1072 Bryant Plans by Owner. \$4000

REPAIRS

(940) 2238 ULLOA ST.; repair fire damage.
Owner—J. Forester, 2238 Ulloa St.
Architect—None.
Contractor—C. D. De Velbiss, 369 Pine Street. \$1900

ALTERATIONS

(941) 62 TAYLOR ST.; alterations for restaurant.

Owner—M. Lekas, 62 Taylor St.

Architect—None.

Contractor—N. D. Psychogios, 471 Jessie Street. \$1000

DWELLING

(942) W WESTGATE 295 N Upland; one-story and basement frame dwelling.
Owner—G. W. Morris, 95 Pinehurst.
Plans by D. E. Jaekle, 744 Call Bldg. \$4000

APARTMENTS

(943) S V PAGE & Cole Sts.; three-story and basement frame (12) apts.
Owner—Stein & Kreis, 734 30th Ave.
Plans by P. Krieg, 134 19th Ave. \$23,000

DWELLING

(944) W JENNINGS 75 N Revere; 1-story and basement frame dwelling.
Owner—T. L. Sharman, 154 Irving St.
Architect—None. \$2400

DWELLING

(945) S RICE 275 W San Jose; 1-story and basement frame dwelling.
Owner—H. Walters, 291 Lobos St.
Architect—None. \$3500

BUILDING CONTRACTS

San Francisco County

151 Adam	Horstmeyer	\$312
152 Sperow	Verner	4450
153 Schwalbe	Laughlin	37500
154 Weinstein	Barrett	5563
155 Same	Otis	7223
156 Allen	Peterson	9960
157 Queirolo	Murer	7133

ALTERATIONS

(151) W COLLINGWOOD S of Market 40-42 Collingwood; alterations.
Owner—A. Adam, premises.
Plans by W. Horstmeyer.
Contractor—Horstmeyer Co., 3600 20th Street.

Filed July 17, '30. Dated July 15, '30.
Rough coat \$953
White coat 953
Completed 953
Usual 35 days 953
TOTAL COST, \$3812

Forfeit, \$10. Limit, 65 days. Plans and Spec. filed.

DWELLING

(152) SW NEWCOMB 125 NW Newhall; all work on one-story and basement frame dwelling.

Owners—J. A. and K. Sperow, 509 Gough St.
Architect—G. A. Berger, 309 Valencia.
Contractor—J. W. Verner, 400 Staples Street.

Filed and Dated July 18, 1930.
Roof on \$ 700
Completed and accepted 700
Usual 35 days 3050

TOTAL COST, \$4450
Bond, \$2225. Sureties, O. Person and R. Mortensen. Forfeit, \$5. Limit, 70 days. Plans and Spec. filed.

APARTMENTS

(153) S GREENWICH 40 E Franklin; three-story frame and stucco apt. building.

Owner—Sara Schwalbe, premises.
Plans by Builder.
Contractor—Laughlin Const. Co., 1770 Pine St.

Filed July 21, '30. Dated June 13, '30.
Frame up \$5000
Brown coated 5000
White coated 5000
Completion 13125
Usual 35 days 9375

TOTAL COST, \$37,500
Bond, \$18,750. Sureties, Globe Indemnity Co. Limit, 120 days after property is cleared.

(154) 1041 MARKET ST.; alterations to store building.

Owner—Weinstein Co., 1041 Market.
Architect—Hyman & Appleton, 68 Post Street.

Contractor—Barrett & Hulp, 918 Harrison St.
Filed July 22, '30. Dated July 10, '30.
Monthly payments, actual expenses.
Usual 35 days Balance
TOTAL COST, \$5568

Limit, 30 working days. Plans and Spec. filed.

ELEVATOR WORK

(155) 1041 MARKET ST.; remove elevators from 119 Post St. and re-install at 1041 Market St.

Owner—Weinstein Co., 1041 Market St.
Architect—None.
Contractor—Otis Elevator Co. 1 Beach Street.

Filed July 22, '30. Dated July 14, '30.
Payments not given.

TOTAL COST, \$7223
Plans and Specifications filed.

FLATS

(156) E DIAMOND 75 N 18th St.; all work on 2-story frame flats.

Owner—James F. and Frieda Allen, 75 Eureka St.
Architect—None.

Contractor—Arvid Peterson, 1620 8th Street.

Filed July 23, '30. Dated July 22, '30.
Roof on \$2475
Brown coated 2475
Completed 2475
Usual 35 days 2475

TOTAL COST, \$9900
Bond, \$4950. Sureties, H. A. Norman, Albin Warden. Limit 90 days. Plans and Spec. filed.

BUILDING

(157) N KENT 60 W Mason; all work on 2-story and basement frame building.

Owner—Giuseppe Queirolo.
Architect—Luigi Dallorso, 32 Jansen.

Contractor—L. Murer & Co., 1815 Mason Street.

Filed July 23, '30. Dated Mar. 20, '30.
Roof on \$1796
Rough plaster on 1796
Completed and accepted 1796
Usual 35 days 1795

TOTAL COST, \$7183
Bond, \$3591.50. Sureties, Domenic Trevisan, Frank Maby. Plans and Spec. filed.

COMPLETION NOTICES

San Francisco County

Recorded Accepted

July 21, 1930—NE HAMILTON 175 SE Felton SE 25 x NE 120 Blk 35 Railroad Ave Hd Assn. William F Bernell to whom it may concern.

July 18, 1930—NE BROAD 348-3 E Orizaba Ave E 49-6 x N 125, Albert P and Anna Lederhos to George O Bendon.

July 21, 1930—SE EDINBURGH 150 NE Brazil Ave 25x100 Blk 47 Excel Hd Assn. William J and Catherine Polev to Peter Andersen.

July 19, 1930—W 25th AVE 100 S Rivera 25x120. Carl and Fred Gellert to whom it may concern.

July 19, 1930—N SACRAMENTO ST 118-9 E Steiner. A P and B Verner to J Mager & Son.

July 19, 1930—E KEARNY bet Bush and Pine, Nos 346-352 Kearny St. J V Oppel to C J Koenig.

July 17, 1930—SW 14th & Vicente 27-6x100. G W Elkington & Sons to whom it may concern.

July 18, 1930—SW CLEMENT ST & 20th Ave W 25 x S 100. J P McCormack to Paul Jenks.

July 10, 1930

July 18, 1930—E PUTNAM 225 S Jarboe, Thomas Keane to Henry Erickson..... July 17, 1930
 July 18, 1930—N GREEN 116-11 W Grant Ave 20x57-6, Giuseppe Zito to C A Evans..... July 11, 1930
 July 17, 1930—W 25th AVE 100 N Kirkham W 120 x N 25, Ennil C and Margaret Mack to E A Anderson..... July 14, 1930
 July 17, 1930—LOT 2 BLK G, map showing subdiv ppty Mission St Land Co. Elles Szatmary to whom it may concern..... July 12, 1930
 July 17, 1930—W 29th AVE 175 and 200 N Lawton N 25 x W 120 OIL 757, Frank J and Hanna Geheran to whom it may concern (two completions)..... July 15, 1930
 July 17, 1930—2051 MARKET ST, McAvoy, O'Hara & Co to C Lindberg..... July 11, 1930
 July 17, 1930—E VERMONT 75 S Mariposa S 25 x 100, A J Judnich Jr, A Judnich and J Kamble to whom it may concern..... July 17, 1930
 July 17, 1930—N UNION ST 115 E Hyde E 101 N 127-6 W 78-6 S 60 W 22-6 S 67-6, Master Builders Inv Corp to whom it may concern..... July 16, 1930
 July 16, 1930—N NORIEGA 57-6 E 19th Ave E 25 x N 100, Christian Andersen to whom it may concern..... July 10, 1930
 July 16, 1930—LOTS 15, 16, 17, 18 and 19 Blk 6571A Geneva Terraces, Henry & Hazel Stoneson to whom it may concern..... July 10, 1930
 July 16, 1930—N CALIFORNIA 32-4 W Laguna W 33-4 x N 137-6 W W Chapin to whom it may concern..... July 10, 1930
 July 22, 1930—PTY BOUNDED by 18th, Shotwell, Folsom and 19th Sts, Pacific Gas & Electric Co to O H Mann & Co..... July 17, 1930
 July 22, 1930—E TWENTY-FOURTH AVE 165 S Ulloa, Arvid Halsen to whom it may concern..... July 22, 1930
 July 22, 1930—LOTS 14, 15 AND 16 Blk 2961 E Map Sub. No. 4, Miraloma Park, Meyer Bros to whom it may concern..... July 21, 1930
 July 21, 1930—S PALOU 225 E Lane 25x100, Giovanni and J Maffucci to D Cappelletti..... July 21, 1930
 July 21, 1930—PTY LOT 100 BLK 358 Nos 33, 40 and 42 Perry Street, P A Deliganis to J D Woodside..... July 14, 1930

LIENS FILED

San Francisco County

Recorded Amount
 July 15, 1930—E 46th AVE 75 N Ortega, Frank Portman as Portman's Planing Mill vs John Volz and T Tignard.....\$44
 July 18, 1930—58 BANNOCK ST, Spediacci Bros vs Alessandro Rodriguez and M Rivera.....
 July 17, 1930—E MONTGOMERY ST 120-6 Bush S 33-6 x E 77-6 m or I. Gunn, Carle & Co, Ltd vs Spencer B Bagge, Industrial Const Co, The Lurie Company.....\$7261
 July 17, 1930—NE ORTEGA and 46th Ave 57-6 on Ortega 100 N 46th Ave, J E Lemon Lime & Cement Co vs John Volz and J Tignard.....\$93
 July 17, 1930—W 19th AVE 120 N California N 52 x W 120, Charles P Murphy as Murphy Art Tile & Mantel Co vs Emily F and H O Lindeman, W R Lindeman, Joseph H and Eva Woshow.....\$2476

RELEASE OF LIENS

San Francisco County

Recorded Amount
 July 17, 1930—SE 16th AVE & Clement St, Robert A Roche to A G Isaacs to J R Johnson.....\$399.50

July 17, 1930—E 37th AVE 100 N Taraval N 25 x E 120, S H Kettenberg to whom it may concern.....
 July 21, 1930—E 39th AVE 250 N Union 25, Christensen Const Co to John H Diechle.....\$345
 July 19, 1930—N VASQUEZ AVE 80 W Laguna Honda Blvd Lot 3 Blk 32, Forest Hill, G R Jackson and Son, Star Concrete Co, Albert Cook, Oak Floor Co, Gregory and Co, Richmond Electric Co to H W Armbrust, A Dutriz.....
 July 19, 1930—LOT 21 W 14th AVE 75 N Geary ST N 25 x W 100, J Klein to L A Goldstein, M Brutman and F S Goldstein, J F Roisman, A J Minne and G D Minne, et al.....
 July 19, 1930—LOT 3 BLK 22, Map Blks 27 to 34 Forest Hill Exten, Joseph J Burdon & Son, Pacific Mill & Cabinet Co, J S Guerin & Co, Smith Lumber Co to A Dutriz, H W Armbrust.....

BUILDING PERMITS

Alameda County

904	Stritta	Owner	3000
905	Lewis	Owner	7000
906	Tweed	Owner	34000
907	Albarelo	Mally	5000
908	San Leandro	Gossett	3000
909	Stevens	Owner	1000
911	Standard	Owner	1500
910	Forsman	Lundberg	1300
911	Lyon	Muller	1000
912	Rose	Owner	9750
912	Rheem	Christensen	48000
914	Booth	Owner	3000
915	Hobart	Owner	1850
916	Gale	Owner	4987
917	Associated	Owner	2500
918	Derry	Owner	5000
919	Gross	Owner	6000
920	Koplin	Groden	4000
921	Leonetti	Johnson	2000
922	Smith	Owner	4000
923	Bischhoff	Kopf	2090
924	Flage	Lyon	2900
925	Higton	Owner	4250
926	Weeks	Lynn	2000
927	Dooley	Owner	3000
928	Maynard	Spence	2500
929	Madsen	Owner	5000
930	Sacco	Delucchi	4000
931	Waldman	Owner	5000

(904) 1816 TENTH ST., OAKLAND; alterations.
 Owner—G. Stritta, 1042 45th St., Oakland.
 Architect—None. \$3000

DWELLING
 (905) W VERNON ST. 100 S Monte Vista, OAKLAND; one-story five-room dwelling.
 Owner and Builder—Cora M. Lewis, 6616 Telegraph Ave., Oakland.
 Architect—None. \$7000

APARTMENTS
 (906) 2456 HILLGARD AVE., BERKELEY; three-story 56-room 18-family apartments.
 Owner and Builder—Henry T. Tweed, 4035 Greenwood, Oakland.
 Plans by Owner. \$34,000

DWELLING
 (907) 711 ESTUDILLO, SAN LEAN-DRO; six-room frame and stucco dwelling with tile roof.
 Owner—Pete Albarello, 1216 62nd St., Oakland.
 Architect—None.
 Contractor—Cissero Mally, 474 St., Oakland. \$5000

GYMNASIUM
 (908) 965 DOWLING, SAN LEAN-DRO; frame and stucco school gymnasium.
 Owner—San Leandro School Board.
 Plans by School Board.

Contractor—C. A. Gossett, Davis Cl., San Leandro. \$3000

ADDITION
 (909) 3363 GREENWOOD AVENUE, OAKLAND; addition.
 Owner and Builder—John Stevens, 3365 Greenwood Ave., Oakland.
 Architect—None. \$1000

ADDITION
 (910) SE COR. HARWOOD AND College, OAKLAND; brick addition and 1-story steel comfort station.
 Owner—Standard Oil Co.
 Architect—None. \$1500

ALTERATIONS
 (910) NO. 105 MOUNTAIN AVE., PIEDMONT, Alterations.
 Owner—S. N. Forsman, 105 Mountain Ave., Piedmont.
 Architect—Oscar W. Price, 1733 Hopkins St., Oakland.
 Contractor—S. I. Lundberg, 4002 Everett St., Oakland. \$1300

ALTERATIONS
 (911) NO. 25 CROCKER AVENUE, PIEDMONT, Alterations.
 Owner—H. R. Lyon, 306 Sheridan Ave., Piedmont.
 Architect—None.
 Contractor—F. A. Muller, 805 Syndicate Bldg., Oakland. \$1000

RESIDENCE
 (912) NO. 20 KEEFER COURT, PIEDMONT. One-story 6-room frame residence and garage.
 Owner—M. A. Rose, 2442 Acton St., Berkeley.
 Architect—Ray Keefer, 3281 Lakeshore Ave., Piedmont. \$9750

RESIDENCE
 (914) NO 1 SEAVIEW AVE., PIEDMONT. Two and one-half-story 15-room frame residence and garage.
 Owner—R. S. Rheem, 478 30th St., Oakland.
 Architect—Alben Froberg, Ray Bldg., Oakland.
 Contractor—H. J. Christensen, Ray Bldg., Oakland. \$48,000

DWELLING
 (914) W SEVENTY-SIXTH AVE 425 S Hillside, OAKLAND. One-story 5-room dwelling.
 Owner—B. S. Booth, 672 Santa Ray Ave., Oakland.
 Architect—None. \$3000

WAREHOUSE
 (915) N THIRTIETH ST. 250 E San Pablo Ave., OAKLAND. One-story tile and brick warehouse.
 Owner—Hobart Express Co., 859 31st St., San Francisco.
 Architect—None. \$1850

DWELLING
 (916) E ROCKWELL 79 S Mystic, OAKLAND. One-story 5-room dwelling.
 Owner—Mrs. M. J. Gale, 3125 College Ave., Oakland.
 Architect—Paul V. Tuttle, 1117 Pearl St., Alameda. \$4987

SERVICE STATION
 (917) 1200 CENTRAL AVE., ALAMEDA; one-story steel service station building.
 Owner and Builder—Associated Oil Co. of California, 79 New Montgomery St., San Francisco.
 Plans by Owners. \$2500

DWELLING
 (918) 841 LEE AVE., SAN LEAN-DRO; seven-story frame and stucco dwelling.

Owner and Builder—Derry Bros., 614
14th St., San Leandro.
Architect—Irwin M. Johnson, 2215 7th
Ave., Oakland. \$5000

RESIDENCE
(919) 77 NORTHAMPTON ROAD, **BERKELEY**; two-story 6-room 1-
family frame residence.

Owner and Builder—H. B. Gross, 1509
Albany Terrace, Berkeley.
Architect—Thomas Bros., 361 17th St.,
Oakland. \$6000

DWELLING
(920) 831 LINCOLN AVE., **ALAME-**
DA; one-story 5-room frame and
stucco duplex residence.

Owner—Wm. Koplin, 1543 9th Street,
Alameda.
Architect—None.
Contractor—J. J. Grodem, 1028 San
Antonio Ave., Alameda. \$4000

RESIDENCE
(921) 1130 BLAKE ST., **BERKELEY**;
one-story 5-room 1-family frame
residence.

Owner—G. Leoneetti.
Architect—None.
Contractor—L. Johnson, 1909 West St.,
Oakland. \$2000

RESIDENCE
(922) 705 CRAGMONT AVE., **BERK-**
ELEY; one-story 6-room 1-family
frame residence.

Owner—T. Smith, 1419 Edith Street,
Berkeley.
Architect—B. Reininghaus, 2717 Chan-
ning Way, Berkeley. \$4000

ADDITION
(923) 621 HILLGIRT CIRCLE, **OAK-**
LAND; addition.

Owner—Fred Bischoff, 621 Hillgirt Cir-
cle Oakland.
Architect—None.
Contractor—Ben F. Kopf, 845 Pacific
Ave., Alameda. \$2090

DWELLING
(924) W GUIDO ST. 300 N 35th Ave.,
OAKLAND; 1-story 4-room dwell-
ing and garage.

Owner—A. J. and J. S. Flagg.
Architect—None.
Contractor—C. D. Lyon, 6501 Buena
Ventura, Oakland. \$2900

DWELLING
(925) E 35th AVENUE 128 S Quigley
OAKLAND; one-story 7-room 2-
family dwelling.

Owner and Builder—Edith Highton, 2636
Octavia St., Oakland. \$4250
Architect—None.

SERVICE STATION
(926) SW COR PIEDMONT & John
St., **OAKLAND**; one-story brick
service station.

Owner—W. A. Weeks, California Bldg.
Oakland.
Architect—None.
Contractor—Willis F. Lynn, 354 Ho-
bart St., Oakland. \$2900

DWELLING
(927) 3420 GUIDO RD., **OAKLAND**;
one-story 5-room dwelling.

Owner and Builder—Fred T. Dooley,
3936 Vale Ave., Oakland.
Architect—None. \$3000

ADDITION
(928) 526 BALFOUR ST., Oakland;
addition.

Owner—B. B. Maynard, 526 Balfour
St., Oakland.
Architect—None.
Contractor—A. T. Spence, 641 Taylor
Ave., Alameda. \$2500

DWELLING
(929) S 63rd ST. 100 E Channing Way,
OAKLAND; one-story five-room
dwelling.

Owner and Builder—Mrs. K. M. Mad-
sen, 6230 Channing Way, Oakland.
Plans by Kenneth C. Morrison. \$5000

ALTERATIONS
(930) NW COR. FIFTH and Castro
Sts., **OAKLAND**; alterations and
repairs.

Owner—Frank Sacco.
Architect—None.
Contractor—P. Delucchi, 5413 Clare-
mont Ave., Oakland. \$4900

DWELLING
(931) 3158 McKILLOP ROAD, **OAK-**
LAND; two-story 6-room dwell-
ing.

Owner and Builder—A. E. Waldman,
331 17th St., Oakland.
Architect—W. W. Dixon, 1844 Fifth
Ave., Oakland. \$5090

BUILDING CONTRACTS

Alameda County

128 Regents	Symon	\$800
129 Belgrano	Moore	17800
130 Coyne	Glynn	4952
131 Barone	Engman	3250
132 Godchaux	Vezev	6085
133 P G & E Co	Person	7432

WRECKING
(128) 1901 FRANKLIN ST., Oakland;
wrecking of building.

Owner—Regents of the University of
California.
Architect—None.
Contractor—Symon Bros., 1435 Market
St., San Francisco.

Filed July 17, '30. Dated July 9, '30.
TOTAL COST, \$800
Two Bonds: \$4,000, labor and material;
\$18,820 public liability policy. Sureties
New York Indemnity Co. Limit, 20
working days.

WAREHOUSE
(129) SOUTHEAST COR. E EIGHTH
St. and Park Way to Western Pa-
cific R. R., Higley's map of Clin-
ton, Oakland; all work on 1-story
brick warehouse.

Owner—Emilia A. Belgrano.
Architect—None.
Contractor—John J. Moore Co., 1145
Sunnyhills Road, Oakland.

Filed July 19, '30. Dated July 18, '30.
1st and 15th of each month.....75%
Usual 35 days.....25%
TOTAL COST, \$17,800
Limit, Sept. 21, 1930. Plans and Spec.
filed.

DWELLING
(130) PTN LOT 12 BLK 20, Thous-
and Oaks Blvd., Oakland; gener-
al construction on 5-room dwelling

Owner—Lynus Coyne.
Architect—None.
Contractor—Henry Glynn, 500 Zorah,
Oakland.

Filed July 19, '30. Dated June 23, '30.
When rough frame up.....\$1238
When brown coated.....1238
When finished.....1238
Usual 35 days.....1238
TOTAL COST, \$4952
Limit, 90 days.

DWELLING
(131) 3453 PAXTON ST., Oakland;
general construction on frame and
stucco duplex dwelling.

Owners—Louis and Mary Barone.
Architect—None.
Contractor—Karl Engman, 439 49th St.
Piedmont.

Filed July 22, '30. Dated March 20, '30.
When floor joists are placed.....15%
When roof is on.....25%
When plastered.....25%
When finished.....20%
Usual 35 days after.....15%
TOTAL COST, \$5250
Bond, forfeit limit, none.

STORE
(132) S DAVIS STREET 87 ft. W of
Washington Ave., San Leandro;

general construction on one-story
store building.

Owners—Emma and Sylvain Godchaux
and Mattie Figel.
Architect—E. W. Cannon, 81 Echo,
Piedmont.

Contractor—Chas. D. Vezev & Sons,
3220 Sacramento St., Oakland.
Filed July 22, '30. Dated July 21, '30.
7th of each month.....75%
Completion, sum sufficient to bring
total payments to 75% contract
Usual 35 days.....Balance

TOTAL COST, \$6085
Bond, \$6085. Sureties, Fidelity & De-
posit Co. of Maryland. Limit, Sept. 15,
1930. Plans and Spec. filed.

ALTERATIONS
(133) BOUNDED by 45th, Hollis and
Holden Sts., Emeryville; altera-
tions and construction of mezza-
nine floor in warehouse.

Owner—Pacific Gas & Electric Co., 245
Market St., San Francisco.
Plans by Eng. Dept. of Owner.
Contractor—Emil Person, 829 San
Louis Road, Berkeley.

Filed July 23, '30. Dated July 15, '30.
Monthly payments of.....75%
Usual 35 days.....Balance

TOTAL COST, \$7432.70
Bond, \$7432.70. Sureties, National Cas-
ualty Co. Limit, 60 days. Plans and
Spec. filed.

BUILDER'S BOND

ALAMEDA COUNTY

July 18, 1930—NE JACKSON AND
14th St., Oakland; 10-story steel
frame apts. Henry G and Ida E
Hill, owners. Chas S Mabrey,
contractor. Hartford Accident &
Indemnity Co. Bond \$72,500.
Malott & Peterson, sub-contractor,
Hartford Accident & Indem-
nity Co., Bond \$24,000

COMPLETION NOTICES

Alameda County

Recorded Accepted
July 17, 1930—MASONIC HOME at
Decoto. Masonic Homes of Calif.
to Malott & Peterson. July 8, 1930
July 16, 1930—1663-1665 SCENIC
Ave., Berkeley. Milton S Bonds
to whom it may concern.....July 16, 1930
July 16, 1930—NO. 4409 REDDING,
Oakland. Elizabeth Swansick to
whom it may concern.....June 12, 1930
July 19, 1930—430 VERMONT AVE,
Berkeley. Ethelwyn Wing to
whom it may concern.....July 12, 1930
July 19, 1930—753 WALKER AVE,
Oakland. Angeline Larkin to
whom it may concern.....July 15, 1930
July 19, 1930—LOT 45 UNIT C, Oak
Knoll, Oakland. Irvan E and Mar-
garet A Kohlhoff to Gerald W Mc-
Pherson.....July 19, 1930
July 19, 1930—1728 MILVIA Street,
Berkeley. Wm F and Augusta A
Roth to whom it may concern.....July 17, 1930
July 18, 1930—LOTS 63 & 64 Broad-
moor Park, San Leandro. Leroy
D and Jessie M Becker to whom it
may concern.....July 12, 1930
July 18, 1930—9514 ALCAIA AVE,
Oakland. Wm Arthur to whom it
may concern.....July 17, 1930
July 18, 1930—3251 MOUNTAIN
Blvd, Oakland. Lionel L Cher-
rington to whom it may concern.....July 18, 1930
July 18, 1930—710 HILLDALE AVE
Berkeley. Arthur L Jensen to
Ralston & Anderson.....July 17, 1930
July 18, 1930—LOT 33 BLK 20,
Thousand Oaks Blvd, Berkeley.
Reininghaus to whom it may
concern.....July 17, 1930

July 17, 1930—NO. 574 VINCENTE St., Berkeley. Saleme M Steindel to Sam Steindel..... July 16, 1930
Decoto. Masonic Homes of Calif. to J A Mohr & Son..... July 8, 1930
July 17, 1930—MASONIC HOME at July 21, 1930—INFIRMARY Bldg at University Campus, Berkeley. The Regents of the University of California to A J Ruhlman & Co, Inc..... July 16, 1930
July 21, 1930—LOT 31 BLK M, map Mulford Garden Unit No 1, township of Eden. W H King to whom it may concern..... July 18, 1930
July 21, 1930—1418 A L L E N D L E Ave, Oakland. John Lehman to whom it may concern..... July 19, 1930
July 21, 1930—PTN LOT 9 BLK 20, McKee Tract, Berkeley. Carl U Anderson to whom it may concern..... July 16, 1930
July 21, 1930—PTN LOT 34 Map No 2, Glen Ecco Tract, Oakland. John and James Vallance to Weeks Const Co, Ltd..... July 19, 1930
July 19, 1930—LOTS 11, 12, 13, 14, 15 and ptn Lot 16, Benton Property, Berkeley. International House (a corp.) to California Artistic Metal & Wire Co; W P Fuller & Co; Lannom Bros Mfg Co; Malott and Peterson; J A Mohr & Son, Inc; Palace Hardware Co; D N and E Walter & Co (7 completions)..... July 15, 1930
July 22, 1930—SW WASHINGTON Ave and Davis St. San Leandro. Hattie Figel, Emma and Sylvain Godchaux II Chas. D Vezev and Sons..... July 9, 1930
July 22, 1930—LOT 2 BLK L, Durant Manor, Oakland. A E and Bertha Sater to whom it may concern..... July 21, 1930
July 22, 1930—S SMITH ST at NE corner of Alvarado Public School Lot. Manuel Gularite to Jas Hamilton..... July 19, 1930

LIENS FILED

ALAMEDA COUNTY

Recorded	Amount
July 18, 1930—3514 CALENDRIA Ave, Oakland. Hipolito Co vs J K and Hildegard L Holy, Henning Carlson.....	\$63.93
July 18, 1930—3539 CALENDRIA Ave, Oakland. Hipolito Company vs Tom and Edythe L King, Henning Carlson.....	\$63.93
July 18, 1930—3539 CALENDRIA Ave, Oakland. M & L Tile Co, \$296.50; Venus Lumber & Mill Co \$273.37, vs Tom and Edythe King, Henning Carlson.....	\$267.25
July 17, 1930—LOT 16 BLK 2, Case Tract, Berkeley. Superior Tile & Products Co vs Lipscomb E Worth and E W Wilson.....	\$48
July 17, 1930—LOT 16 BLK 2, Case Tract, Berkeley. Lewis & Francois vs Lipscomb E and Beatrice M Worth and E W Wilson.....	\$75
July 15, 1930—NE TWENTY-fourth and Valdez, No. 306 24th St., Oakland. E Simon Hardware Co vs Tillie R Spear and E Flenner.....	\$6500.74
July 16, 1930—LOT 16 BLK 2, Case Tract, Berkeley. A W Sunkler vs L E and Beatrice M Worth and E W Wilson.....	\$78
July 16, 1930—LOT 15 BLK F, Daly Tract, Oakland. J D McCabe vs E A and Adalia C Powell.....	\$75
July 16, 1930—NO. 1627 ELAKE ST., Berkeley. J L Sweeney vs L E Worth and E W Wilson.....	\$78.50
July 18, 1930—306 24th STREET, Oakland. Pacific Coast Aggregates, Inc vs Tillie R Spear and E Flenner.....	\$6500.74
July 19, 1930—126 FORTUNA AVE, San Leandro. Markus Hdwe Co vs John B Fay.....	\$97.67
July 19, 1930—1062 MONTEREY Ave	

Berkeley. Markus Hdwe Co vs D D and Patricia May Edmond.....\$56.20
July 22, 1930—CALANDRIA AVE inter with line of Lots 349 350, Unit C Oak Knoll, Oakland. G L Smith and J M Bettencourt as M & S Tile Co vs Tom and Edythe King and H Carlson.....\$296.50

RELEASE OF LIENS

ALAMEDA COUNTY

Recorded	Amount
July 19, 1930—NW COR LINCOLN Ave and County Road No 1854, Oakland. General Mill & Lbr Co to John and Mathilda Uin.....	\$145.95
July 22, 1930—3287 MORCOM AVE, Oakland. William S Hurst to Victor E Milton.....	\$139.86

BUILDING CONTRACTS

SAN MATEO COUNTY

REPAIRS

BEAR GULCH DAM, 3 Miles W of Menlo Park. Repair and enlarge.

Owner

Engineer—Bear Gulch Water Co.
Contractor—H. C. Vensano, 58 Sutter St., San Francisco.

Sub-Contract—Mitchell Diamond Drilling Co.

Filed July 14, '30. Dated July 11, '30.
Unit price..... 75%
Usual 35 days..... 25%

TOTAL COST, \$—
Bond, \$2000. Surety, Fidelity Deposit Co. Limit, forfeit, none. Specifications only filed.

HOSPITAL WING

LOT 54 AND OTHERS, Laurel Creek Farm, San Mateo. General contract for three-story reinforced concrete hospital wing to present Community Hospital.

Owner—San Mateo County.

Architect—Will H. Toepke, 74 New Montgomery St., San Francisco.
Contractor—Sorensen & Haggmark, 2652 Harrison St., San Francisco.

Filed July 17, '30. Dated July 15, '30.
As work progresses..... 75%
Usual 35 days..... 25%

TOTAL COST, \$32,767
Bond, \$41,383.50. Surety, Union Indemnity Co. Limit, 150 working days. Forfeit, \$25. Plans and specifications filed.

HOT WATER HEATING, ETC., ON ABOVE.

Contractor—Frank J. Kilmm, San Mateo.

Filed July 17, '30. Dated July 15, '30.
Payments same as above.....

TOTAL COST, \$14,763
Bond, \$7381.50. Surety, United States Guaranty Co. Limit, forfeit, plans and specifications, none.

PAINTING, ETC., ON ABOVE.

Contractor—George Ames, 408 Howart St., Burlingame.

Filed July 17, '30. Dated July 15, '30.
Payments same as above.....

TOTAL COST, \$3890

Bond, \$1945. Surety, Glen Falls Indemnity Co. Limit, forfeit, plans and specifications, none.

BUILDING PERMITS

SAN MATEO

RESIDENCE, \$8000; Lot 16 Blk 12, Irving St. San Mateo; owner and contractor, Joseph Regner, 920 E-Third St., San Mateo.

RESIDENCE, \$1000; Lot 26 Blk 12, No. 810 S-Fremont St., San Mateo; owner and contractor, Geo. H. Archer.

BUNGALOW and garage, \$4000; Lot 21 Blk 5, No. 1615 Palm Ave., San Mateo; owner and contractor, Peter H. Ewing.

RESIDENCE, \$8500; No. 377 Georgetown St. E 50 Lot 21 Blk 5, San Mateo; owner, E. R. Cavasso, 235 E-Third St., San Mateo; contractor, Erni Cavasso, 235 E-Third St., San Mateo.

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded	Accepted
July 14, 1930—WOODSIDE. W H Hendricks to Albert L Palmatag.....	July 7, 1930

July 15, 1930—LOT 5 BLK 19, San Bruno. A I Valentine to whom it may concern..... June 30, 1930

July 15, 1930—LOT 8 BLK 2, Duncan Park, San Mateo. Frederick F Balliet to whom it may concern..... July 14, 1930

July 15, 1930—LOT 5 BLK 8, Fairways of Emerald Lake. Dominic Cerelli to P J Phelan..... July 15, 1930

July 16, 1930—LOT 14 RLK 31. Easton. Edwin Schuehert et al to Charles Hammer..... July 12, 1930

July 16, 1930—ROUTE 55-68 SUB A, G. C. and D. State Highway Commission to Chas Beguhl..... July 14, 1930

July 16, 1930—ROUTE 55 SEC A, B and C. State of California to C W Sawyer..... July 14, 1930

July 17, 1930—PART LOTS 1 AND 2 Blk 6, Menlo Oaks. Carl H Ellertson et al to whom it may concern..... July 11, 1930

July 17, 1930—LOTS 4, 5 AND 6, Winchester Place, San Mateo. Oswald & Rucker to whom it may concern..... July 17, 1930

July 17, 1930—PART LOT 34, San Mateo Park. Grace O Smith to Frank Ferrera..... July 2, 1930

July 18, 1930—LOT 6, East Green Wood Tract, San Mateo. James C Somerville to Robert B Bowers..... July 3, 1930

July 18, 1930—LOT 15 BLK 3, Burlingame Grove. Arthur II Johns et al to whom it may concern..... July 18, 1930

July 18, 1930—LOT 6 BLK 3, San Bruno. Kirsten Petersen to whom it may concern..... July 17, 1930

Member Insurance Brokers' Exchange

FRED H. BOGGS
INSURANCE
490 GEARY STREET

Phone FRanklin 9400

San Francisco

Skyline. State Highway to J W Duple. July 14, 1930
 July 18, 1930—LOTS 2 AND 3 BLK 22, Milbrae Highland. Guss Moeller & Sons to Schultz Constr Co. July 14, 1930
 July 18, 1930—SPENCER LANE IN Atherton. John Jay Baumgartner to Wells P Goodenough. July 9, 1930
 July 19, 1930—LOT 12 BLK 9, North Palo Alto. O C Heald to whom it may concern. July 18, 1930

LIENS FILED

SAN MATEO COUNTY

Recorded	Amount
July 14, 1930—LOT 5 BLK 22, Assessor's Book. United States Radiator Co vs Randle & Digges, et al.	\$451.29
July 16, 1930—LOT 4 BLK 44, Easton Addn, Redwood City. Merner Lumber Co, \$110.57; Progress Lbr Co, \$82.76, vs Manuel T Moreno, et al.	
July 18, 1930—PART LOT 6, East Greenwood, Mercer Lbr Co, \$25.10; Progress Lbr Co, \$62.78, vs Jas C Sommerville, et al.	
July 19, 1930—LOTS 12 and 13 BLK 27, Visitation. F W Banks, et al to Alice Blake.	\$351.55

RELEASE OF LIENS

SAN MATEO COUNTY

Recorded	Amount
July 14, 1930—LOCATION OMITTED. Construction Device Co to J K Moore, et al.	
July 18, 1930—LOCATION OMITTED. Chicago Lbr Co, R Galway, J Baratto, Henry Vujevich, J K Moore, et al.	
July 14, 1930—LOCATION OMITTED. Pope & Talbot, Golden State Flooring Co, Henry Cowell Lime & Cement Co, San Mateo Planning Mill Co, Albert Cook, Dodge Koven Co, Jackson & Sons, Ideal Floor Co; G Boni, Atlas Stair Bldg Co, McClintic - Marshall Co, Construction Device Co, Pacific Heating Co to J K Moore.	

BUILDING PERMITS

SAN JOSE

INDUSTRIAL heating plant and necessary alterations, \$11,140; Hester School, The Alameda, San Jose; owner, San Jose School Department, San Fernando at Sixth St, San Jose; architect, Ralph Wyckoff. Grovers Bank Bldg., San Jose; contractor, O'Mara & Stewart, 218 Mary St, San Jose.

INDUSTRIAL building, masonry, \$11,800; Virginia and Fourth Sts., San Jose; owner, Barron Gray Packing Co., 5th and Martha Sts., San Jose; architect, C. S. McKenzie, Twohy Bldg., San Jose; contractor, Megna & Newell, Bank of Italy Bldg., San Jose.

SCHOOL, one-story frame, \$44,725; Illinois and William Sts., San Jose; owner, San Jose School Department, San Fernando St. at Sixth St., San Jose; architect, Warren Skillings, American Trust Co. Bldg., San Jose; contractor, The Minton Co., 16 N-First St., San Jose.

RESIDENCE, 5-room frame, \$3000; Twenty-sixth and St James Sts., San Jose; owner and contractor, T. P. Mahaffey, 1192 Sherwood St., San Jose.

RESIDENCE, 5-room frame, \$4125; S-Eleventh St. near San Antonio, San Jose; owner, L. T. Clark, 54 S-15th St., San Jose; contractor,

T. H. Herschbach, Twohy Bldg., San Jose.

RESIDENCE, 5-room frame, \$5000; Second St. near Taylor, San Jose; owner, C. A. Stevens, 760 E-San Carlos St., San Jose; contractor, Cavelli & Clift, 2 Sanborn Ave., San Jose.

ALTER Class C business building, \$2500; No. 165 S-First St., San Jose; owner, Mrs. L. Martin, 501 S-Fifth St., San Jose; contractor, T. H. Herschbach, Twohy Bldg., San Jose.

BUILDING PERMITS

PALO ALTO

RESIDENCE, frame and stucco, \$8100; No. 575 Washington Ave., Palo Alto; owner, John Madsen, 765 Hamilton St., Palo Alto.

DWELLING, frame and rustic, \$—; No. 710 Cornell St., Palo Alto; owner, Miss. Elizabeth Brown; architect, Roy Heald, 636 Webster St., Palo Alto; contractor, Fred Wiseman, 985 Fulton St., San Francisco.

DWELLING, frame and rustic, \$3000; No. 1020 California Ave., Palo Alto; owner, Mrs. K. S. Evans; contractor, O. Moen.

VENTILATING system, \$1000; No. 427 California St., Palo Alto; owner, Harry E. Allen, Premises; contractor, Atlas Heating & Ventilating Co., 557 4th St., Palo Alto.

RESIDENCE and garage, frame and stucco, \$20,000; No. 557 Crescent Drive, East Palo Alto; owner, Andrew J. Field, 619 Guinda St., Palo Alto; contractor, Birge M. Clark, 310 University Ave., Palo Alto; contractor, W. P. Goodenough, 310 University Ave., Palo Alto.

BUILDING CONTRACTS

SANTA CLARA COUNTY

SCHOOL
COR. W-WILLIAM ST. AND S-
 Marten Ave., San Jose. General contract for two-story frame school.
 Owner—San Jose School District of Santa Clara County, San Jose.
 Architect—Warren P. Skillings, Garden City Bank Bldg., San Jose
 Contractor—The Minton Co., Mt. View.
 Filed July 14, '30. Dated June 20, '30.
 As work progresses. 75%
 Usual 35 days. 25%
TOTAL COST, \$35,983
 Bonds (2) \$19,491.50 each. Surety, Pacific Indemnity Co. Limit, 160 working days after June 26, 1930.
 Forfeit, none. Plans and specifications filed.

FURNISH AND INSTALL complete heating and ventilating system on above.
 Contractor—A. J. Peters & Son, 455 E-Washington St., San Jose
 Filed July 14, '30. Dated July 1, '30.
 As work progresses. 75%
 Usual 35 days. 25%
TOTAL COST, \$5900
 Bonds (2) \$2950 each. Surety, Fidelity & Casualty Co. of New York. Limit, 160 workings days. Forfeit, none. Plans and specifications filed.

RESIDENCE
 NO. 557 EAST CRESCENT DRIVE, being Blk 116, Palo Alto. All work for two-story residence.
 Owner—Andrew J. Field, 619 Guinda St., Palo Alto.
 Architect—Birge M. Clark, 310 University Ave., Palo Alto.

Contractor—Wells P. Goodenough, 310 University Ave., Palo Alto.
 Filed July 18, '30. Dated July 16, '30.
 As work progresses. 75%
 Usual 35 days. 25%
TOTAL COST, \$20,289
 Bond, \$12,000. Sureties H. P. Hansen and Ira T. Bridges. Limit, 90 days from July 21, 1930. Forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

SANTA CLARA COUNTY

Recorded	Accepted
July 17, 1930—NE PARK AND Sunol Sts., San Jose. Calogero Vella to whom it may concern.	July 15, 1930
July 17, 1930—LOT 46 F. M. Greenwood Subd. of Blk 47, Palo Alto. L H and Anna M Grieb to whom it may concern.	July 9, 1930
July 17, 1930—SW 40 FT. LOTS 19 and 20 Blk 20, Lendrum Tract No. 2, San Jose. James G Wilson to whom it may concern.	July 9, 1930
July 17, 1930—LOT 17 BLK 11, Evergreen Park, Palo Alto. Harry L and Maude L Page and W G Bell to whom it may concern.	July 15, 1930
July 17, 1930—LOT 2, Byerley Tract, San Jose. J B Byerley to whom it may concern.	July 16, 1930
July 18, 1930—LOT 10 BLK 9 R 4 W. Mace's SW Addn, San Jose. C Basile et al to whom it may concern.	May 1, 1930
July 18, 1930—NE SAN ANTONIO and Market Sts., San Jose. Auzerals Estate Co to whom it may concern.	July 14, 1930
July 18, 1930—RIDGECREST AVE. near Beck Ave, Los Gatos. F A Gummer to whom it may concern.	July 10, 1930
July 18, 1930—LOT 25, Edgemont Subd., San Jose. Everett J Phillips et al to whom it may concern.	July 16, 1930
July 11, 1930—LOT 32, Strom Subd., San Jose. E H Mitchell et al to whom it may concern.	July 9, 1930
July 11, 1930—LOT 14, Santana Subd., San Jose. Rollie Williams et al to whom it may concern.	July 8, 1930
July 11, 1930—ON 2 7/2 ACRE ON Saratoga Ave., San Jose. Stephen S Jarrett et al to whom it may concern.	May 8, 1930
July 11, 1930—LOT 13 BLK 12, Evergreen Park Lot 8 and N 1/4 Lot 9 Blk 13, Interurban Park Tract, San Jose. A W Haasch to whom it may concern.	
July 11, 1930—LOT 32, Rosedale Subd., San Jose. E J Hobe to whom it may concern.	July 11, 1930
July 12, 1930—SW MARKET AND NW Babach, San Jose. Louise Masson et al to whom it may concern.	July 12, 1930
July 12, 1930—LOT 17 and S 5 1/4 Lot 16 Blk 30, Freyschlag Subd. San Jose. Luisa Mina to whom it may concern.	July 10, 1930
July 12, 1930—LOT 16 BLK 48, Seale Addn No. 2, Palo Alto. Earl H and Amidol Avis Rush to whom it may concern.	July 10, 1930
July 12, 1930—LOT 8, Fairview Homestead Subd., San Jose. Arthur V Doering et al to whom it may concern.	July 11, 1930
July 14, 1930—SE SECOND AND San Salvador Sts., San Jose. Seaside Oil Co to whom it may concern.	July 5, 1930
July 14, 1930—LOT 8, Geo. Roth Subd, Santa Clara. L N Lucich to whom it may concern.	July 14, 1930

July 18, 1930—ROUTE 55 SCE C.
 July 14, 1930—PART SEC. 19 T 6 S
 K 2 W, San Jose. T C Forester
 to whom it may concern.....
 July 12, 1930
 July 15, 1930—N PORTLAND AVE
 500 W Grant Rd, San Jose. Joel
 I. Du Bose to whom it may concern.....
 July 14, 1930
 July 15, 1930—LOT 5 BLK 142 Em-
 barcadero Oaks, San Jose. John
 Hanson to whom it may concern.....
 July 14, 1930
 July 15, 1930—S ALAMEDA, bet
 Bush and White Sts., San Jose.
 California Packing Corporation to
 whom it may concern.....July 11, 1930
 July 15, 1930—PART LOT 10 BLK
 22, Montgomery and Rea Subd.,
 San Jose. David C Freeland to
 whom it may concern.....July 7, 1930
 July 15, 1930—LOT 6 and Part Lot
 7 Blk 40, College Terrace, Palo
 Alto. Willis J Sheldon to whom
 it may concern.....June 28, 1930
 July 15, 1930—SW CHAPMAN ST.
 70 SE Davis St., San Jose. T L
 Hubbard to whom it may concern.....
 July 14, 1930

LIENS FILED

SANTA CLARA COUNTY

Recorded Accepted
 July 18, 1930—LOT 57, Marguerite
 Tract No. 1, San Jose. S F Ben-
 nett vs Elsie T Colombo.....\$200
 July 11, 1930—LOTS 10 AND 18 BLK
 123, Crescent Park No. 2, San
 Jose. Michel & Pfeffer Iron Wks
 vs Howard L and Nora O Gray.....\$116
 July 11, 1930—LOTS 10 AND 18 BLK
 123, Crescent Park, San Jose. A
 S Head vs Howard L Gray.....\$34
 July 11, 1930—LOT 13 BLK 12,
 Evergreen Park, Palo Alto. Mer-
 ner Lumber Co vs A W and Mary
 E Haasch.....\$325.25
 July 11, 1930—SW FULTON 50 SE
 Everett Ave SE 50xSW 100 Ptn
 Lot 10 Blk 48, J S Lakin Subd.,
 Palo Alto. Merner Lumber Co
 vs Sigrid Stevenson.....\$929.21
 July 12, 1930—SW FULTON ST, 50
 S7 Everett Ave SE 50xSW 100,
 Part Subd 10 Blk 48, Palo Alto.
 Jas H Daly vs Sigrid Stevenson.....\$158
 July 12, 1930—LOTS 10 AND 18 BLK
 123, Crescent Park No. 2, Palo
 Alto. Samuel Zillerman, \$135.40;
 K R McDougall, \$337.44 vs H L
 Gray.....
 July 14, 1930—SW OF LOTS 19 AND
 20 Blk 28, Ledrum Tract No. 2,
 San Jose. San Jose Lumber Co
 James Q Wilson et al.....\$291.95

RELEASE OF LIENS

SANTA CLARA COUNTY

Recorded Amount
 July 16, 1930—NW SANTA CLARA
 and San Pedro Sts., San Jose.
 Helvie & Hayden; Geo M East-
 man; Kennerson Mfg Co; Spencer
 Elevator Co; Borchers Bros; S H
 Chase Lumber Co; Truscon Steel
 Co; Granite Constr Co; M Stulsaft
 Co, Inc, California Steel Products
 Co; Central Supply Co; Tilden
 Lumber & Mill Co; C B McReyn-
 olds; Crane Co to The Farmers
 Union.....
 July 17, 1930—LOT 3 BLK 11, Ever-
 green Park, Palo Alto. Steve and
 S H Anderson to Frieda E Simmen
 July 18, 1930—LOT 15 BLK 17, Los
 Altos No. 2, Los Altos. Merner
 Lumber Co; Progress Lumber Co
 to Mary D Knight et al.....

BUILDING PERMITS

BURLINGAME

BURLINGAME, \$6500; Lot 50 Blk 6,
 Hale Drive, Burlingame; owner
 and contractor, Buchanan & Jack-
 son, 1225 Cortez St., Burlingame.
 MINATURE golf course, \$3000; Lots
 4, 5 and 6, Lorton Ave., Burling-
 ame; owner and contractor,
 Jack H. Nigal.

BUILDING CONTRACTS

MARIN COUNTY

ALTERATIONS

ROSS. All work for alterations and
 additions to school.
 Owner—Ross School District, Ross.
 Architect—A. A. Cantin, 544 Market
 St., San Francisco.
 Contractor—Fred H. Field.
 Filed July 7, '30. Dated July 5, '30.
 1st of each month.....75%
 Usual 35 days.....25%
 TOTAL COST, \$2064
 Bond, none. Limit, 40 days after
 filing contract. Forfeit, none. Plans
 and specifications filed.

BUILDING PERMITS

STOCKTON

FENCE and implement shed, \$2000;
 No. 2801 Fifth St., Stockton; own-
 er, Spreckels Sugar Co., 204 Cali-
 fornia Trust Bldg., Stockton.
 REPAIR fire damage, \$1000; No. 530
 N-Van Buren St., Stockton; own-
 er, L. Block, Premises; contractor,
 B. L. Mason, 431 E-Mendocina
 St., Stockton.
 REPAIR fire damage, \$4500; No. 48
 N-Wilson Way, Stockton; owner,
 Fisher Bros. Milling Co., Prem.

BUILDING CONTRACTS

SONOMA COUNTY

RESIDENCE

NW OF SANTA ROSA near Burbank
 Park; all work on 2-story Spanish
 type residence.
 Owner—G. B. Rocco, 309 Hewitt St.,
 Santa Rosa.
 Architect—Chas. P. Casey, Richmon-
 d.
 Contractor—W. J. Lindsay, Rincon
 Valley Road, Santa Rosa.
 Filed July 16, '30. Dated July 15, '30.
 Frame up.....20%
 Roof on.....20%
 Plastered.....20%
 Finished.....20%
 Usual 35 days.....20%
 TOTAL COST, \$12,000
 Limit, 150 days from date. Plans and
 Spec. filed.

LIENS FILED

SONOMA COUNTY

Recorded Amount
 July 18, 1930—WEST ST., Heads-
 burg. A F Stevens Lumber Co vs
 General Petroleum Corp of Calif
 and W L Proctor (registered land).
\$629.71
 July 14, 1930—PART LOT 3 BLK 2,
 Guerneville. Henry Hess Co vs
 Gust Butsells; Gus Lewis and
 Antoinette M Cobb.....\$709.34

COMPLETION NOTICES

SONOMA COUNTY

Recorded Accepted
 July 12, 1930—FIFTH ST 438 N
 Mountain View Ave., Petaluma.
 P Howard Ames to J E Stephens

July 7, 1930
 July 15, 1930—W 80 FT. OF E 160
 ft. of Lots 2 and 4 Blk 4, Norwood
 Addition to Santa Rosa. Adolph
 D Dechow to whom it may concern.....
 July 14, 1930
 July 16, 1930—S SONOMA AVE N
 of Steiner Court. W L Lippincott
 to whom it may concern.....
 July 16, 1930

RELEASE OF LIENS

SONOMA COUNTY

Recorded Amount
 July 18, 1930—LOT 280 BLK 9,
 Wheelers 2nd Addn to Santa
 Rosa. Mead Clark to Elmer H
 Webb; E H Webb and E A Webb
 (Webb & Sons).....\$96.29
 July 12, 1930—LOT 280 BLK 9,
 Wheelers 2nd Addition to Santa
 Rosa. C D Roberts, \$57.14; L A
 Drake, \$122.45; Dickinson Bldg
 Material Co, \$59.95; Ketterlin Bros
 \$114.60 to Elmer H Webb; E H
 Webb; E A Webb (Webb & Son)

COMPLETION NOTICES

MARIN COUNTY

Recorded Accepted
 July 21, 1930—LOCATION NOT
 Given. James M Goewey to whom
 it may concern.....July 21, 1930
 July 21, 1930—SAN ANSELMO. E
 Lakeman to whom it may concern.....
 July 18, 1930

COMPLETION NOTICES

MONTEREY COUNTY

Recorded Accepted
 July 16, 1930—LOT 16, Maple Park
 Addition No. 1, Monterey. J
 Frank Laughton to whom it may
 concern.....July 15, 1930
 July 17, 1930—LOT 7 BLK 131, City
 of Carmel. Mrs. John F Tennis to
 Hugh W Comstock.....July 10, 1930
 July 17, 1930—LOT 2 BLK B-3, Ad-
 dition No. 7, Monterey. Etta Paul
 to Hugh W Comstock.....July 12, 1930
 July 21, 1930—LOT 2 BLK 39, Map
 of Carmel City. Elizabeth Mc-
 Clung White to Samuel Miller.....
 July 17, 1930
 July 21, 1930—LOT 6 BLK 1, Maple
 Park Addition to Salinas. Wal-
 lace L Richmond to whom it may
 concern.....July 18, 1930
 July 21, 1930—LOT 3 OF PARCEL
 8, Map of Lomie Lane Sub-
 division, Monterey. Fred Theo-
 dore Kraft to whom it may con-
 cern.....July 21, 1930

LIENS FILED

MONTEREY COUNTY

Recorded Amount
 July 22, 1930—NO 737 S. MAIN ST.,
 being Lot 3 Blk 21, Spring's Ad-
 dition, City of Salinas. C A Lewis
 vs Cleon A and Florence Tynan
 and A B McElheran.....\$153

LIENS FILED

SAN JOAQUIN COUNTY

Recorded Amount
 July 18, 1930—LOTS 47 AND 48 BLK
 31, Fair Oaks Tct, Stockton. Star
 Lumber Co vs Louis Sapiro; Edith
 Beach and Rosalie V Rock.....\$51.10
 July 17, 1930—LOT 53 Unit No. 2,
 Bescadero Colony Good Lumber
 Co vs P Koonymann, Snuth & Jones,
 Mercantile Mortgage Co and Cali-
 fornia Farms.....\$223.97

COMPLETION NOTICES**CONTRA COSTA COUNTY**

Recorded	Accepted
July 16, 1930—STATE HIGHWAY, bet. Rodeo and Crockett. Department of Public Works (acting on behalf of the State of California) to Charles Beguhl.....	July 14, 1930
July 18, 1930—W 45 FT. LOT 31, La Salle Heights No. 1. S S Grabstein, agent for Irving Weltman, to whom it may concern.....	July 16, 1930

LIENS FILED**CONTRA COSTA COUNTY**

Recorded	Amount
July 18, 1930—PTN BLK 129, Original Survey, Martinez. Diamond Match Co vs W A Ordway, Marion B and M M Brewen.....	\$79.69

BUILDING PERMITS**SACRAMENTO**

RESIDENCE, 5-room, \$3000; 1801 49th St.; owner and builder, Klein Realty Co, 1009 8th St., Sacramento.	
RESIDENCE, 6-room, \$5000; 2701 W St.; owner and builder, E. L. Eachus, 2175 Weller Way, Sacramento.	

COMPLETION NOTICES**SACRAMENTO COUNTY**

Recorded	Accepted
July 18, 1930—ISLETON. Southern Pacific Co to whom it may concern.....	July 12, 1930
July 16, 1930—SACRAMENTO. Southern Pacific Co to whom it may concern (steel waste washing building).....	July 5, 1930

LIENS FILED**SACRAMENTO COUNTY**

Recorded	Amount
July —, 1930—NO. 1631 F ST., Sacramento. Dolan Building Material Co vs Clarence Briggs; W E Davis; Spiros and Thexiopi Theodoreatos.....	\$218.06

BUILDING PERMITS**FRESNO**

OFFICE, \$9400; Kern and N Streets; owner, Standard Brands, premises; contractor, R. Pedersen, 446 Clark St., Fresno.	
OFFICE, \$5165; Chandler Airport; owner, Pacific Air Transport, premises; contractor, Jolly & Harrington, 834 Arthur, Fresno.	
ALTERATIONS and additions, \$3000; Merced and Broadway; owner, Odd Fellows Hall, premises; contractor, E. J. Heffner, 252 N Broadway, Fresno.	

COMPLETION NOTICES**FRESNO COUNTY**

Recorded	Accepted
July 18, 1930—LOTS 7 and 8 Pinkham Terrace, Fred Grosse to whom it may concern.....	July 15, 1930
July 19, 1930—LOT 19 N ½ of Lot 20 Blk 2 Yosemite Addn. R R and Lily Magill to whom it may concern.....	July 18, 1930
July 19, 1930—LOTS 13 & 14 Whitehouse Terrace. Delbert Dill to whom it may concern.....	July 19, 1930

July 15, 1930—LOTS 12 AND 13 BLK 58, E Fresno. G H Schwabenland to whom it may concern.....	July 14, 1930
July 15, 1930—LOTS 7 AND 8 BLK 3, Villa Addition, Fresno. A H Rohrs to C L Cottrell.....	July 8, 1930
July 17, 1930—PART SECTION 35, 15-22, Fresno. Southern California Gas Co to Robertson Co, Ltd.....	July 10, 1930

LIENS FILED**FRESNO COUNTY**

Recorded	Amount
July 19, 1930—S & O LAND in SW ¼, part of Lot 1 in SW ¼ of Sec 6, 17-18. W A Vance vs Geo H and Hazel Cooper.....	\$579

ARCHITECT'S PART IN CITY BUILDING

"During the past decade the architect has been playing an increasingly vital and important part in the development and growth of this country," says John Hudson, president of the Washington State Society of Architects.

"The beauty of a city is not so much in the amount of money that has been expended, as in the careful and artistic planning and designing of the buildings constructed therein.

"The public in general has come to realize the necessary and distinctive part that the architect plays in his ability to place before the prospective builder a complete visualization of what his structure is going to be long before the first brick is laid.

"Literally, no other class of citizen has so vital a part in the building of a great city as has the architect, and it is to members of associations like ours that the people must look to give dignity, permanence and beauty to building construction, so that each structure built will be a monument to

the owner, the architect and society generally.

"From many years of experience in the building profession, I realize more clearly today than ever before that money spent for architectural service is the most economical part of a building venture, and we as members of our associations should ever work to educate the public to the importance of securing expert professional advice when contemplating any line of construction.

"The members of these associations should become more closely allied with one another and work together in harmony to maintain a high standard of architectural efficiency and beauty. Furthermore, it is only through co-operation that proper legislation can be secured to protect the rights of our organization. Just as laws have been passed to protect the interests of other professions, so should we work in harmony to secure legislation which will raise the standards of our profession and protect the people of this great commonwealth."

COUNTY PLANNING ENGINEER IS NAMED

Reeve Conover, Monterey engineer, has been named engineer for the Monterey County Planning Commission, it is announced by Carmel Martin, chairman of the planning board. Beside investigating and drawing up zoning ordinances for the board, Conover will also be executive secretary of the commission and will maintain an office in Monterey where planning matters may be presented for the board's consideration. His duties will include gathering data for the purpose of indicating when and where new roads will be needed so that the commission may purchase rights of way.

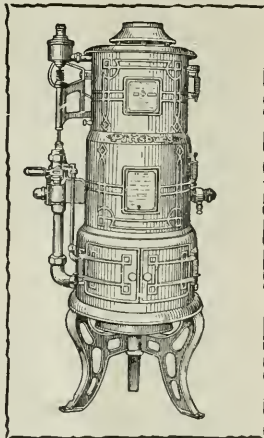
For the past five years Conover has been a partner in the civil engineering firm of Conover and Files, dissolution of which was recently announced.

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BUILDING *and* ENGINEERING NEWS

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SAN FRANCISCO, CALIF., AUGUST 2, 1930

Thirtieth Year, No. 31
Published Every Saturday



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BUILDING OFFICIALS PREPARE FOR MEETING

Early preparations for the ninth annual meeting of the Pacific Coast Building Officials' Conference, to be held at the Hotel Virginia, Long Beach Sept. 29 to Oct. 4, present bright prospects for a convention of exceptional interest. It is reported in the July Bulletin of the Conference.

"It is planned to have a number of well-qualified men present papers on such important subjects as city planning and housing, condemnation of buildings, fire prevention in buildings used for public assemblage, size of fire districts, methods of making standard fire tests, licensing of contractors and reinforced brick masonry.

"In addition, approximately two days' time will be devoted to discussions of the Uniform Building Code by six code changes committees. A place on one of the six committees has been assigned to each active member of the Conference. Delegates other than active member city building officials may sit in with any committee they wish and participate in the discussions. The code changes committees will also take up such subjects as refrigeration, film storage and handling of films, theater regulations, incinerators and the installation of gas burning appliances.

"Three informal breakfasts will be held at this year's annual meeting for the purpose of answering questions of code enforcement. Instituted at the Fresno meeting in 1928, the plan of holding breakfasts to discuss interpretation and enforcement has ever since been one of the most popular features of the annual meeting.

"As a needed digression from the strenuous business sessions for which the Conference is noted, several entertainment features are scheduled for the men by the local committee on arrangements, headed by C. D. Waites, Jr., chief building inspector of Long Beach. These include trips through the harbor and to other points of interest. It is planned to entertain the ladies by drives about the city, with luncheons, afternoon bridge parties, swimming parties, a theater party and a trip to Hollywood through the motion-picture studios, together with other miscellaneous diversion. Entertainment for everyone will consist of an evening trip through a nearby steel mill and an all-day trip to the famous 'Catalina Island.'

PACIFIC CLAY EARNINGS

For the six months ended June 30, Pacific Clay Products Company, Los Angeles, reports net earnings after all charges including depreciation and Federal tax of \$143,778 equal to \$1.45 a share on 99,157½ shares of no par common outstanding, against \$205,138 or \$2.07 a share on the same share basis for the 1929 period. After the payment of \$18,989 in common dividends at the annual rate of \$2.40 a share there remained a balance of \$24,820 to be added to surplus.

Engineers' Employment Service Places 1,688 Men

BY THE OBSERVER

The San Francisco office of the Engineering Societies Employment Service, during its four years of operation has placed 1688 men in positions, according to Newton D. Cook, manager of the San Francisco branch.

Supporting societies to the service are the American Society of Civil Engineers; American Institute of Mining and Metallurgical Engineers; American Society of Mechanical Engineers; American Institute of Electrical Engineers; California Section, American Chemical Society; Engineers' Club of San Francisco and the Western Society of Engineers.

The Engineering Societies Employment Service is a co-operative enterprise, started in New York City in 1918. With the support of the four leading engineering societies and their 50,000 members its success was such that offices were opened in Chicago and San Francisco in 1925.

Briefly, the unit is a professional service bureau for engineers, operated by engineers. The service to employers covers the entire field of engineering and chemistry with men available for any position from beginner to chief executive. Every effort is made to fill positions whether they be for construction, operation, distribution or any of the various divisions of activity for which men with technical training are qualified. Members register from all over the world and may be secured for work in out-of-the-way places as readily as for the cities.

Members of the supporting societies are given preference in filling positions, but in order to take care of many requests for which members are not available, an active register of non-members also is maintained. Non-members are required to apply in person before registering for employment unless they are recommended by members.

As an added service the San Francisco branch maintains a file containing the names and addresses of consulting engineers practicing in the Western States. This information is exceedingly valuable to any person or firm desiring to secure professional engineering service of the highest grade.

Employers and employees are alike benefited by the operation of this employment service, acting as a central clearing house, where careful discrimination is exercised in co-ordinating the requirements of the position with the qualifications of the individual.

A. G. C. CITES ILLS IN HOME BUILDING FIELD

Acceleratory measures in the construction fields amenable to the control of governmental and public bodies produced an increase of more than a quarter of a billion dollars in the volume of such construction awards during the first six months of the current year, as compared with the same period of 1929, according to a statistical analysis just completed by the Associated General Contractors of America.

This increase however, was not sufficient to offset the drastic decline reported in fields of the industry dominated by private business, and failed to maintain the total volume of contract awards which showed a decline of 12½ per cent from that for the first half of last year.

The fields contributing to the increase were those of educational, hospital and institutions, religious and memorial, public buildings and public works and utilities, while those showing declines were social and recreational, commercial industrial and residential buildings, which in the aggregate decreased 33 per cent.

Edward J. Harding, assistant general manager of the Associated General Contractors, states that his organization is preparing to launch movements to similarly accelerate construction on a sound basis in the lagging fields, especially that of residential building which in the first six months showed a decline of \$523,657,400, or 47½ per cent as compared with the corresponding period of last year.

At a recent meeting of the executive cabinet of the association, headed by A. E. Horst, of Philadelphia, president, the numerous ills and problems afflicting the residential section of the industry were gone into and the promulgation of a program looking toward the working out of their solution was authorized.

Among the ills that have contributed to the present position of residential construction, Mr. Harding states, have been the unregulated activities of shoestring speculative builders; lack of proper provision for second mortgage financing on a conservative basis at low cost; lack of organization of legitimate home builders and other residential contractors; the existence of unsound appraisal practices and what appears to be a growing lack of confidence in this section of the industry on the part of the public.

The declines of 16 per cent in commercial buildings, 17½ per cent in industrial buildings and 7 per cent in social and recreational buildings reported for the first six months may yet be made up in the year's total in the event of an appreciable business revival within the near future, Mr. Harding believes. Drastic corrective measures, however, must be brought to bear in the residential section of the industry before it is enabled to proceed on a sound basis, he said.

TRADE ASSOCIATIONS AND THEIR VALUE TO INDUSTRY

(By W. J. Parker, Trade Association Organizer and Director, New York)

At this particular time of business depression and when plans are being formulated and considered for the rehabilitation of business on a profitable basis, trade association activities seem all the more important and should take an even more prominent place in our economic structure. Had there been more serious adherence to the idea of mass minds, associated effort and research during that period leading up to the recent dramatic business climax, many of those concerns now trying to ward off the death rattle would have thrown up far better defenses against the conditions now obtaining. While foresight is less common than hindsight, still even to the lay mind it was obvious that the centrififugal force of business was reaching the danger point, and the balance wheel had to be slowed down to keep the business machine within safe limits. Now that the business cycle curve has reached what we hope is to be the low level, it becomes vastly important that its ascension be plotted upon a sane basis.

Trade Associations can play a vital part in this reconstruction. They permit the organization of producers and distributors of commodities and services for the promotion of business in their branch industry by the compilation and distribution of data, the establishment of trade standards and the cooperative handling of trade problems and practices both within the civil and moral law. But even better than that, they permit competitive contact and acquaintanceships which remove personal antipathies that so commonly and unconsciously exist without reason.

Practices Prohibited

Under our anti-trust legislation, embodied principally in the Sherman and Clayton Acts, there are three outstanding practices in business that are prohibited. These apply to restriction of production, territorial division by agreement and price fixing by agreement. The latter provision is being given consideration for revision in the Capper-Kelly Bill now before Congress. There are other trade practices interpreted by the Federal Trade Commission as trade abuses which are also under a ban.

The things that cannot be done individually or collectively are fixed by statute and rule. The things that can be accomplished by collective thinking and effort are almost limitless and the Trade Association becomes the beacon to which the course may be set in sailing into the harbor of ethical business relations.

Trade Associations are not a style that changes with fancy. They are here to stay as an important factor in our commercial existence. The legislative, economic and financial minds of the country have more than given them their stamp of approval—they have come to lean upon them as pillars of progress. President Hoover, while Secretary of Commerce, gave continued recognition to their value and gave sponsorship and encouragement to industrial organization. Congress, through the creation of the Federal Trade Commission, which has worked hand in hand with Trade Associations in smoothing out industrial and commercial ills and abuses, has indicated its confidence in collective thinking. Economic foresaw the possibility of manufacturing and distribution interchange of ideas through the trade association in accomplish-

ing standardization and the elimination of waste in effort and materials. The banker realized that no one man or individual company, irrespective of his ability or its size, had cornered all of the brain power in any industry. The statistician has worked out a formula indicating that no business man or company irrespective of how efficient, controls but 40% maximum of the factors governing his or its business. The other 60%, pressing from the outside, including relationship with federal, state and local government, taxation, tariff, industry and inter-industry competition, labor, etc., are influences that can only be reckoned with in general. For this reason the large companies today in almost every field are active members of Trade Associations.

Cost Accounting

One of the highly important phases of association work is the development of cost accounting systems. Either in manufacturing or selling it is fundamental that we know our costs and how to arrive at them with accuracy. It is surprising to learn the number of larger and erstwhile successful concerns as well as smaller companies, who have computed their cost and selling price either by mere guess or by haphazard methods, little better than guess. How business today, in the face of keen competition, can go on without a uniform cost accounting procedure which will allow the men of an industry to legally get together and compare costs, is difficult to understand. "If one does not know what his costs are how can one figure his profits."

It is not uncommon for the little fellow, who assumes a low over-head and who depends upon territorial distribution, to establish prices ridiculously low to meet outside competition. His competitors decide to meet his price and so the battle goes on, resulting in profitless sales for all concerned. By the adoption of uniform cost accounting system and trade association cost conferences, the interchange of methods and experiences prove invaluable and need betray no secrets of manufacture and sale. On the other hand, the discussions of operations lead to suggestive methods from which not only individual concerns but the public at large benefit.

Another very constructive activity of vital importance is the development and compilation of complete and accurate facts and figures indicating trends in industry. This may start with raw material and carry through to the buying habits of the ultimate consumer. They may include inventory and movement of commodities in the base industry as well as inter-related industries which affect either the manufacture or sale of the class of commodity an association is primarily interested in. Such statistical information is secured through various ways—by questionnaire, surveys, reports from members, etc., and correlated so as to bring out its greatest value. It is needless to say that an association is by far a better clearing house for such data than by attempting to maintain a statistical department in individual concerns. In fact there are few concerns which can afford such a department.

Associated Effort

Trade promotion is another important activity made possible through associated effort. It permits of research in developing every possible use and outlet for commodities; group adver-

tising to promote good will towards industry through catchy slogans and timely or seasonal buying; it effects great saving in buying of printing matter, data books and promotional pieces; it permits the conduction of sales and inspirational meetings among jobber, dealer and consumer groups, it promotes the holding of shows and expositions when the buyer is brought to the seller. There are but a few of the myriad of promotional activities possible through group effort.

The Bureau of Standards in Washington has made great strides in standardization and simplification of materials and parts. It is, however, a function of the Trade Associations to accomplish standardization and simplification of the assembled product. Reference could be made running into volumes of instances, where various association committees on standardization have saved countless thousands of dollars for their members and the public at large through the standardization of materials, tool and machine equipment. Such simplification not only reflects a saving to the branch industry covered by the association but those related industries upon which it depends for materials.

Patent litigation has been one of the expensive luxuries of the manufacturing business. It is a subject that involves such a volume of details and such a diversification of interpretations that a manufacturer is hardly ever sure of his ground irrespective of the caution practiced to avoid infringement. Trade association activities have been invaluable in keeping suits of this character from court calendars. They have permitted the adjustment of patent differences and the cross licensing of patents through committee work which feature alone has paid in dividends many times the cost for association membership expense. We need only to refer to the automotive industry as a concrete example of the effectiveness of control of patent exchange.

Codes of Practice

Keen competition has been the parent of many unethical, wasteful and vicious abuses in business practice. That they are within the law made them even more difficult to adjust or eliminate unless by gentlemen's agreement. Codes of Business practices in trade associations have placed an effective obligation upon their members which has gone far in obviating the suspicious and unethical methods among competitors. They have set up standards of business morals, which while not always lived up to, furnishes a basis upon which constructive criticism can be effectively used. An association that is representative of an industry has a court of appeal in the Trade Practice Committee of the Federal Trade Commission which Committee when the facts are brought before it can call a trade practice conference of the entire industry affected. As a result of such conferences, the abuses or practices are grouped and classified according to their legal or moral status and the machinery of government is set in motion to counsel the adjustment of the abuses, either by collective agreement or by resort to the courts so that the small and large alike have equal opportunities to weather the maelstrom of competition.

There are many more functions of the trade association dealing in gen-

eral and with the ramifications of specific industries. It is not contended that association activities form a panacea for business ills. Suffice to say, however, they do offer the most constructive step toward the stabilization of industry's problems. They offer dividends in direct proportion to the individual interest invested in them.

Price cutting is a problem of great complexity, very hard to understand, and most difficult to cure. The sustaining cause of the problem is not in the realm of economic or social law; it is in the realm of mental qualities of the price-cutting manufacturers of the industry in the form of ignorance, misunderstanding, confusion, greed, distrust and antagonism. The solution of the problem involves the curbing or elimination of these qualities. The penalty for failing to curb or eliminate these qualities is unprofitable operation.

The only answer to the problem of the individual business man who is either faced by the necessity of liquidation, insolvency or merger, is the Trade Association. It is the only protection against these one or two or three in an industry who are forever upsetting all its plans and keep it running at a loss. Every business man knows that it takes only one manufacturer alone in the industry to lower the price level of an entire industry, irrespective of the wishes of the remainder of those in the industry.

Industry Education

For carrying on the battle against depressed price levels and unprofitable operation industry is already provided with two very formidable and effective weapons. The first of these is industry education, conducted by the industry for the enlightenment of its members. Campaigns of industry education have already done much to help the situation. The adoption of uniform methods of cost accounting, the publication of industry statistics on stocks, prices and volume, and the determination of definite standards and specifications for product have all served to replace doubt, uncertainty and confusion with definite, understandable facts and conclusions. Industry education of the immediate future, however, should hit more directly at the cause of depressed price levels—at the illusion that competitive price-cutting, either direct or disguised, is profitable. On the foundation laid down in uniform costs, industry statistics, and standard product specifications, this can be done by analyzing, one aspect at a time; the various factors involved in price-cutting reasoning, by pointing out the utter futility of this reasoning as a means to greater profits, and by demonstrating the great possibilities which constricting the great possibilities which lie in a reversed reasoning and the elevation of price levels. By hammering these indisputable facts home again and again to every member of our industry, the present influences on price level, human nature notwithstanding, should be discouraged, not on the grounds that it is wrong, but on the grounds that it is futile and foolish.

Trade Practice Conference

A second weapon, one still more formidable and effective, is provided by the Federal Trade Commission in the trade practice conference. This procedure, a development of the last ten years, provides for the self-government of industry on a basis which either coincides with or closely approaches a legal status. It introduces a compulsory factor into industrial affairs which both supplements and increases the good that may be accomplished by industry education alone. Industry education may be reasonable in its admonitions, but unfortunately some manufacturers are unreasonable.

Success in combating the problem of depressed price levels demands reasonableness and unanimity, and unanimity cannot be secured by passive means in the face of a unreasonable minority.

Trade practice procedure is in a state of development. The progress indicated in the last six months is noteworthy. Trade practice procedure has, from the outset, been notably effective in eliminating such obviously undesirable practices as bribery, misrepresentation, secret rebates and slander. It has done enough in the direction of the adoption of uniform, standard terms and specifications in the description of product to show the important possibilities that lie in this direction. Several rules dealing more or less directly with this problem have recently been given Group 1 approval by the Federal Trade Commission, this approval indicating that the full influence of the commission can be brought to bear on their enforcement. Prominent among these rules are those dealing with selling below cost, the prohibition of price discrimination, the provision for price schedules, and miscellaneous rulings aimed at rebates, allowances and free concessions of all kinds.

The rule on price discrimination, which only very recently has been accorded Group 1 approval, appears to have most important possibilities in connection with the depressed price level problem. This rule, based on the Clayton Act itself, prohibits price discrimination between purchasers of the same class. The enforcement of this rule appears to mean, therefore, that each manufacturer must adhere to an established price for each type, condition, and location of account.

There seems to be no other way that he can avoid discriminations to purchasers in the same class. In this way it is possible that one of the great curses of the depressed price level problem, namely price cutting in individual or sporadic instances, can be practically eliminated. On a careful analysis it is evident that strict and uniform adherence to a pre-determined price schedule would accomplish this most important point—it would make evident to each manufacturer, to a degree never before possible, the indisputable fact that profitable price-cutting, or profitable general price reduction, is an illusion. With a uniformly maintained price schedule throughout all his selling activities the resulting loss from price reductions would be readily apparent to every manufacturer. Without this uniformity the illusion is hidden in confusion. The importance of this point in its bearing on the depressed price level problem merits repetition again and again; once the illusion is destroyed, that greater profits can accrue from an increase in volume built on price-cutting, the root of the depressed price level problem is also destroyed. The lead which is being taken by the woodworking, machinery, paper-board, gypsum and cut stone industries in this connection is one of great significance to industry.

Every industry presents a situation practically its own. The question of getting some measure of control over price of production, distribution and so on, can be handled not only within the limits of the law but within the limits of good business. For instance, there is the Javits plan which may be applied to certain industries successfully. There are those things which have been freely discussed herein which can be made to eventually deal with the problem of practically every industry.

Is there any other answer than those of a Trade Association for every industry in these times?

MILLWORK INSTITUTE WILL MEET AT PASADENA

The annual meeting of the Millwork Institute of California will be held at Hotel Huntington, Pasadena, August 6, 7 and 9.

Lester G. Sterrett of Fresno, field secretary of the Institute, has been in Pasadena assisting W. L. Leshman, president of the Crown City Manufacturing Co. and a director of the Institute, in making arrangements for the event.

Architects Myron Hunt and John C. Austin of Los Angeles, will appear on the program. Mr. Hunt will tell of the value of good workmanship in millwork and will discuss the relation of the architect to the mill industry. Keith Bowleson of the Security-First National Bank of Los Angeles, research department, will discuss credits.

Thursday, August 6, the annual meeting of the directors will be held and general business of the Institute will be transacted. Friday the general session of the institute will be held and Friday evening the annual banquet will be held.

Leshman and a group of Pasadena mill men have arranged to meet northern and central California delegates at Glendale with automobiles and they will be shown some of the beautiful residence streets of Pasadena on their way to the Huntington Hotel. A visit to the Huntington library and art gallery may be arranged for delegates who have time.

PICKERING LUMBER COMPANY FORMS SALES ORGANIZATION

Organization of the Pickering Lumber Sales Company as a subsidiary of the Pickering Lumber Company of Kansas City, owning large timber holdings in Sonora and Tuolumne Counties, Calif., and the appointment of L. V. Graham of Oakland, Calif., as general sales manager is announced.

Graham, formerly manager of the Chicago Lumber Company, will maintain headquarters at Kansas City, Oroville N. Pier, sales manager at Kansas City will continue in that capacity until Graham's arrival. H. A. Lowe will be in charge of sales in the New York office.

Other appointments announced are: C. C. Stibbich to have charge of San Francisco office, and D. H. Steinmetz, Jr., in charge of the Los Angeles office.

STERLING PUMP COMPANY PLANS EXPANSION

Application for dissolution of the Sterling Pump Works, which is reorganizing as the Sterling Pump Corporation, has been filed with the county clerk at Stockton. Hearing on the application is set for August 30.

Dissolution of the old company, organized April 4, 1907, and originally known as the Sterling Iron Works, is necessary to the formation of the new corporation. W. F. Barnickol, president of the concern, stated in explaining the move. The reorganization has been necessitated by the enlargement of the company's activities, which embraced opening of a branch plant in South Bend, Indiana. The new corporation will have the same capitalization of \$500,000, as the present company. It will also have the same directors and officers, who are Barnickol, president; Ralph M. Bacheller, vice-president, and William W. Wilson, secretary. They comprise the board of directors.

THE OBSERVER

What He Hears and Sees on His Rounds

The contract for the building of the Western Pacific extension northerly from Keddie in the Feather River Canyon to Bieber, in Lassen County, to link that railroad with the Great Northern has been awarded to the W. A. Bechtel Company of San Francisco and the Utah Construction Company of Ogden on a joint bid. Work will be started at once.

The project, which equates in magnitude the appropriation for the first unit of the Boulder Dam construction, represents an outlay of approximately \$10,000,000. According to engineers it is the most important project involving the construction of railroad lines to be undertaken in the last ten years within the borders of California.

The award of this contract sets in motion the railroad building that will make the Western Pacific an important part of a competitive route between California, Arizona and New Mexico on the south; Nevada, Utah and Colorado on the east, and the northern and northwestern states. When the last spike is driven, the additional thorough route will stimulate a greater exchange of commodities between the different states served.

Together with the extension of the Great Northern, about to build southward 88 miles from Klamath Falls, Oregon to Bieber, this new construction will connect two great trunk systems. The Western Pacific's part of this link will swing northward 112 miles through Plumas and Lassen counties on a line roughly midway between the Sacramento Valley and the Nevada boundary. It will serve a rich timber and agricultural section of northern California.

It is estimated that about \$4,500,000 will be spent for labor, while the material costs will approximate \$4,500,000; the balance represents the cost of right of way, engineering, etc. The contract calls for clearing about 1500 acres of right of way. Approximately 3,000,000 cubic yards of rock and earth are to be handled in the grading of the roadbed. To ballast the main track with its 22 miles of siding, 354,000 cubic yards of crushed rock or gravel will be required.

The W. A. Bechtel Company and the Utah Construction Company, the successful bidders, are well known in the railroad construction world. Both these firms have been identified for a long time with many large projects in the western states, including railroad work and general construction. The strength of these two companies insures the satisfactory and expeditious completion of the work.

Great interest centered in the bidding which was participated in by many of the largest general railroad contractors in the western part of the country.

In the 14 cities in the United States having a population of 500,000 or over, \$16,930,300,968 was spent for building operations in the 9-year period ended Dec. 31, 1929, as indicated by building permits issued, according to information made available by the Bureau of Labor Statistics, Department of Labor.

Nearly 60 per cent of the amount, the report states, was spent for new residential buildings, while commercial buildings, including factories, shops, office buildings, stores, etc., accounted for approximately 20 per cent of the remainder. The remaining

20 per cent included buildings for amusement, churches, schools and libraries, public buildings and works, and public institutions.

Of the total spent in these 14 cities, New York City alone accounted for nearly 50 per cent.

Chicago, Detroit, Los Angeles, and Philadelphia were the only other cities where the building permits issued in these nine years totaled more than \$1,000,000,000. Chicago's expenditure totaled more than \$2,500,000,000 while in the other three the expenditures were less than \$1,500,000,000.

In all of the 14 cities the expenditure for new residential buildings exceeded that for new nonresidential buildings, the report shows.

Los Angeles led in the erection of amusement buildings, while Baltimore ranked last.

In church construction, Buffalo led with 2.5 per cent of its total, while San Francisco spent only six-tenths of 1 per cent of its total for that purpose.

A final elimination of the 12-hour working day, involving shorter hours for men on that schedule and giving employment to others, has been worked out in the plants of the Universal Atlas Cement Company, according to B. F. Affleck, president of the company.

Mills which were owned by the former Atlas Company came under United States Steel Corporation rules through the purchase of the Atlas Portland Cement Company's properties and business in January and their consolidation with the Universal Portland Cement Company's, a Steel corporation subsidiary. One of these rules is that no man may work more than 10 hours per day or more than six consecutive days.

Formerly some of the men employed in the Waco, Tex., and Leeds, Ala., mills worked more than 10 hours, many of them 12 hours per day. As cement making is a continuous process which keeps the kilns burning 24 hours a day, this meant two shifts per day, except in the shops. Substitution of three instead of two shifts per day was completed on July 15, Affleck announced.

Institution of the eight-hour basis placed all of the company's mills on the same working hour basis. In addition to the plants at Waco and Leeds, other plants are operated by the company at Hudson, N. Y., Northampton, Pa., Universal, Pa., Bufington, Ind., Duluth, Minn., Hannibal Mo., and Independence, Kan.

There was a decrease of 8.8 per cent in the value of building permits issued in June, 1936, as compared with May according to reports received by the Bureau of Labor Statistics of the United States Department of Labor from 289 identical cities having a population of 25,000 or over. The total migration Quota list, Sir Alexander of June was \$157,894,291. Decreases were registered in 5 of the 7 geographic districts. Increases in total building operations were shown in the New England States and the West North Central States. Residential buildings decreased 7.0 per cent com-

paring May with June, while non-residential buildings decreased 9.0 per cent.

There were 11,393 families provided with dwelling places in new buildings during June, which is a decrease of 8.8 per cent from the 12,456 provided for during May.

Employment on the Boulder dam project will develop only as contracts are let, and ample notice will be given when opportunities for work present themselves, it is announced by Secretary of the Interior Wilbur. Despite notice that there are no positions to be filled at present, applications have been flooding the office of the Bureau of Reclamation at the rate of nearly 200 a day.

When Secretary Wilbur announced the beginning of construction, he made the following statement: "Of one thing the public should be warned, and that is the unwisdom of going to the vicinity of the dam site in the expectation of getting work without ample provision to meet the emergency should this expectation fail. The dam site is located in the midst of a great desert with few inhabitants and slight opportunity for other employment than that which it may afford."

The entire third floor of the Temple Court Building in Denver has been leased to provide office space for the Boulder dam engineering corps during its expected eight years' headquarters in that city. About 40 additional engineers will shortly join the existing staff, according to Elwood Mead, U. S. Commissioner of Reclamation, who was recently in Denver for a conference with Raymond F. Walter, chief engineer for the Denver district.

The Hoover-Young Bay Bridge Commission is unalterably opposed to the use of the proposed San Francisco Bay bridge by steam trains. Use of the bridge by steam trains would add tremendously to the cost of construction, the commission says. C. E. Andrews, engineer for the State Department of Public Works, testified at a recent meeting that a maximum saving of 26 minutes would be possible by the bridge, and an average saving of 10 minutes. The statistics were based on a traffic survey made recently by the state. Final plans for the bridge, which will link San Francisco and Alameda, and decision when construction will start, are expected shortly. Mark L. Requa is chairman of the commission.

American plants engaged in the manufacture of electrical equipment, apparatus and supplies are showing large gains, according to survey of operations. This is reflected in consumption of electrical energy, which is approximately 1.2 per cent greater than the normal seasonal increase, the Electrical World reports.

Berkeley, Calif., will vote on a \$2,690,000 bond issue August 26. The proceeds of the sale of the bonds should the proposal carry, will finance erection of new schools and additions to standing school buildings.

It has just been announced by the Division of Simplified Practice of the Bureau of Standards, Department of Commerce, that simplified practice recommendation No. 49—Sidewalk, Floor, and Roof Lights has been reaffirmed by the standing committee of the industry, without change, for another year. A survey conducted prior to the revision meeting indicated that approximately 98 per cent of the 1929 production of this commodity conformed to the simplified schedule.

ALONG THE LINE

William D. Barkhuff, city engineer of Seattle, died in that city July 26 as the result of injuries received in an automobile accident.

M. E. Danford, 52, assistant vice-president of the American Rolling Mill Company, died at Shotton, Chester, England, according to a cable received at Ashland, Ky., July 26.

Earl Bowe, representative of the National Lumber Manufacturers Association, with headquarters in Los Angeles, has been made executive secretary of the Termite Investigating Committee of the Pacific Coast.

Ward P. Christie, for the last ten years staff engineer of the Associated General Contractors, recently resigned his position to become connected with Ulen & Co., and will be located at the principal offices of the company at Lebanon, Ind. Mr. Christie is a graduate of Purdue University, class of 1915.

Cowell Equipment Company, manufacturer of automobile hoists, auto grease units, gasoline pumps, gasoline storage tanks, pressure tanks, with head office in Los Angeles, and factory at Lynwood, Calif., has recently established Northern California headquarters in San Francisco at 227 7th St. A. W. Courtney is branch manager.

Albert B. Stevens, a graduate of the University of California, has been added to the faculty of the University of Southern California as instructor in general engineering. He will give courses in engineering drawing, mechanics and materials, and will also assist Prof. John F. Dodge in the division of petroleum engineering. Mr. Stevens has been engaged in drafting, scouting and field work in cementing of wells.

Gerald C. FitzGerald has been appointed a member of the Los Angeles Board of Harbor Commissioners to succeed Emerson Spear, whose term has expired. The appointment was confirmed by the city council July 16. Mr. FitzGerald, a consulting hydraulic and civil engineer of wide experience, has been identified with the development of Los Angeles harbor for many years. He is a member of the firm of FitzGerald Engineering and Construction Company of Los Angeles, and holds a commission as captain, Corps United States Engineer Reserve.

BRUNNIER ELECTED TO STATE ENGINEERS' BOARD

Donald M. Baker of Los Angeles and H. J. Brunnier of San Francisco, were chosen president and vice-president, respectively, of the State Board of Registrations for Civil Engineers.

Albert Givan, chief engineer of the Sacramento Municipal Utilities District, was re-elected secretary.

The state board has issued licenses to 3,388 engineers operating in the state of California.

VETERAN RETIRES

John T. Broderick, secretary of the manufacturing committee, General Electric Co., Schenectady, N. Y., retired on July 1 after 41 years of continuous service with the company, 36 of which were spent in the position from which he retires.

HERE — THERE — EVERYWHERE

Semi-annual meeting of the American Iron and Steel Institute will be held in New York City, October 24.

San Jose city council will appoint a committee of fifteen citizens to make a survey with the object of developing a system of supervised playgrounds.

B. C. Forbes, financial expert and editor, speaking before the San Francisco Commercial Club, declared that the present adverse conditions in the lumber industry can be cured only by reduced production. He intimated that, in his opinion, united action by lumbermen to this effect would not meet with any opposition from Washington.

Frances Perkins, New York State Industrial Commissioner, in a speech before the Greater New York Safety Conference, said: "I am convinced that one of the factors in the very large increase in industrial accidents in the state of New York in the past two years has been the practice of laying off, or failing to reemploy, the older and more experienced men and using young unskilled or semi-skilled workers at jobs beyond their capacity for good judgment and safe practice."

Permission has been granted by the Railroad Commission to The Northwestern Railroad Company and The Pacific Lumber Company to execute an agreement covering joint use of a railroad line owned by Northwestern Pacific Company, between Scotia and South Bay in Humboldt County.

OREGON ARCHITECTURAL BOARD OF EXAMINERS RE-ELECTS

All officers of the Oregon State Board of Architectural Examiners were re-elected at the annual meeting of that body held July 25.

John Benne, of the firm of Benne & Herzog, was re-elected president; J. E. Wicks, Astoria, vice-president; and Morris H. Whitehouse, treasurer.

Ellis F. Lawrence, of the firm of Lawrence, Holford, Allyn & Bean, was elected to fill the director's place vacated by the death of Joseph Jacobberger. Frank Clark, Medford architect, was the other director elected.

P. G. & E. CO. SEEKS TO SELL \$25,000,000 IN BONDS

The Pacific Gas and Electric Company has made application to the state railroad commission for permission to issue and sell \$25,000,000 worth of first and refunding mortgage gold bonds, for the purpose of financing the company's construction requirements during 1930.

According to the application, arrangements have been made to sell the bonds at 93½ per cent of their face value through the National City Company. The bonds will bear interest at the rate of 4½ per cent per annum and are redeemable at \$105 on June 1, 1960.

ACQUIRES PROPERTIES

Columbia Steel Co., subsidiary of United States Steel Corp., has acquired by purchase the properties of the United Steel Products Co., Columbia department, with mines, quarries, furnaces, foundries, mills and warehouses located in Colorado, Utah, California, Oregon and Washington.

TRADE LITERATURE

Radio talks broadcast by the Arney Iron Master, telling the story of the iron and steel industry, have been reproduced in printed form in a 52-page illustrated booklet issued by the American Rolling Mills Co., Middletown, Ohio.

In a 12 page illustrated booklet the Fay Metal Patch Co., Cleveland, O., treats of the prevention of rust with Fisholine, a specially processed transparent oil which, when spread upon a metal surface, congeals to form a protection against moisture and atmospheric action.

A handbook has been issued by the Electrical Association of New York, Inc., 100 East 45th St., New York City, containing twelve sections covering each of the following classifications: Illumination, industrial control, industrial heating, material handling, motors, refrigeration, signals, signs, switchboards and panelboards, tools, ventilation and wiring.

Results of a questionnaire sent out to motor truck owners in all parts of the country by the General Motors Truck Co., Pontiac, Mich., are given in a 44-page bulletin recently issued. Facts and figures on truck operating, maintenance and depreciation costs, the use of special hauling equipment, methods of compensating drivers, and other matters in connection with the operation of more than 46,000 trucks of various makes are analyzed and compared in respect to various services. Among the businesses considered are those of general and road contracting and general haulage.

SHORTER DAY IS URGED TO PROVIDE EMPLOYMENT

"The work day should be reduced so that employment can be spread out sufficiently to provide work for everybody," said Governor Trumbull of Connecticut, at the closing session of the Governor's Conference in Salt Lake City.

"Mass production is responsible to a great extent for unemployment," said Governor Trumbull. "Statistics tell us that one workman produces as much as 32 workmen produced 75 years ago. In other words, one man today, working one hour, produces as much as one man working 32 hours did 75 years ago. Our ability to consume necessities, at least, has not been on the same basis."

"This situation is going to become more and more acute. The only immediate answer that is seen is a shortening of the productive hours per day."

"It has been estimated that employees working four hours per day universally can produce all the necessities, all the luxuries, make additions to surplus capital and still enjoy all the things that we have in the past, and that the work hours per day required will become less and less as mass production and mechanization of industry increases and grows."

"We are going through a transitory period from the old hand method of production in New England into the machine age and we are going still further into it. There is not an industry in the East that I know of that is not overcrowded."

Colorama Lighting For Oakland Ballroom

Installation of the new Colorama system of lighting, the first system of its kind on the Pacific Coast and the second of its kind in the United States, is being made by the B. R. Fritz Electrical Company of Oakland, in Sweet's Persian Gardens, a new ballroom at Grand Avenue and Webster Street, Oakland.

All interior decorations are to be performed by the modern servant—Electricity. Light will be actually poured from flutes, mixed in different combinations with colors, producing effects never before thought possible. Five hundred combinations can be produced to blend with the music, yet no lamps will be seen, no glare to tire the eyes, the combination will be brought in and out in such a way that the people in the ball room will feel the light with the music.

The installation will surpass the number of changes that can be produced in the only other installation of its kind, the St. George Ballroom at Brooklyn, New York.

Engineers of the General Electric Company made special trips to Brooklyn to study and if possible perfect and improve upon this installation which they have done in a marked degree. Apparatus new to lighting had to be developed and it is now being rushed from the laboratories.

All materials and equipment in connection with the installation, under the personal supervision of Mr. Fritz, are being purchased locally wherever possible. Drawings for the installation were developed in the Institute of Light at Nela Park.

The installation will be completed in October. Engineers linked with the electrical industry in various sections of the United States are planning to attend the initial test of the installation.

Special feeders of the Great Western Power Company installed in connection with the lighting, are said by officials of the power company, to be larger than those installed for a town of 12,000 population.

PRIVATE GARAGES LEAD IN BUILDING OPERATIONS

More private garages than any other kind of structure were built in American cities of over 25,000 population in 1929. The total of such garages was 135,637, representing 44.2 per cent of all buildings built, according to the United States Bureau of Labor statistics. The cost was \$48,637,185, averaging \$359 for each garage. Second to garages were one-family dwellings, of which 104,798 were built, or 34.1 per cent of the total.

ENGINEER RESIGNS

J. B. Brokaw, since 1924 chief engineer of the Eastern Oregon Light & Power Co. of Baker, Oregon, has resigned to accept the position of assistant manager with the Peoples West Coast Hydro-Electric Corp., California Public Service Co. and Western States Utilities Co., with headquarters in Portland. These companies are subsidiaries of the Peoples Light & Power Co. of New York.

FIVE HUNDRED DAMS INSPECTED

Approximately 500 dams in California have been inspected during the past year under authorization of a law passed by the last Legislature, Edward Hyatt, state engineer, announces.

BANKRUPT LAWS MADE SUBJECT OF INQUIRY

President Hoover has asked Attorney-General Mitchell to make an extensive and vigorous investigation of bankruptcy laws and practices.

The inquiry will be under the direction of the solicitor-general, with the department of commerce co-operating.

Its purpose was outlined by the president as the formulation of legislation to correct present evils in the bankruptcy laws.

Hoover said he had been informed losses to business through bankruptcies had amounted to \$3,000,000,000 over a period of five years.

Present losses, he added, are approximately \$750,000,000 a year.

The text of the president's announcement follows:

"I have authorized the attorney-general to undertake an exhaustive investigation into the whole question of bankruptcy law and practice. It will be a most extensive and vigorous investigation. The work will be under the direction of the solicitor-general and he will be assisted by the department of commerce."

HIGHLY ORNAMENTAL STREET LIGHTING LUMINAIRE

As the first unit of a DeLuxe line of street lighting equipment, the Westinghouse Electric & Manufacturing Company has developed the Renaissance Luminaire, which is particularly applicable for installations in sections desiring a highly ornamental luminaire or for installations in the grounds or parks surrounding public buildings.

The metal parts of the Renaissance Luminaire are all cast aluminum. The canopy, which is equipped with an internal porcelain enameled reflector to redirect the upward light, is hinged to facilitate cleaning and relamping. An adjustable socket support and a porcelain enameled reflector are mounted in the lower casting.

The glassware used in the Renaissance Luminaire is a cylinder of either Monax or Cremax glass which is cushioned on the sides and bottom by heavy felt gaskets cemented to the metal frame work.

Thick luminaire, having all metal parts of aluminum, is light in weight; the complete fixture, including globe and socket, weighs only 160 pounds.

ENGINEERS TO REPORT ON POWER DEVELOPMENT OF LOS ANGELES

Approval has been given by the Los Angeles board of water and power commissioners of the three engineers selected by the Chamber of Commerce to make a survey and report on the city's proposed power development program from an engineering standpoint.

The bureau of power and light wishes to place on the ballot at the primary election, August 26, a measure authorizing a bond issue of \$19,000,000 as a part of a tentative three-year financial program totaling \$31,000,000, of which \$12,000,000 is to be derived from power revenue.

The engineers chosen are W. F. Durand, emeritus professor of mechanical engineering, Stanford University; R. W. Sorensen, professor of electrical engineering, California Institute of Technology; and A. V. Gullion, assistant chief engineer of the California railroad commission.

GENERAL ESTRADA COMPLETES ENGINEERING COURSE

General Enrique Estrada who served Mexico as minister of war under President Obregon, is planning to enlist again in his country's service, this time as an engineer, he told the United Press.

To this end he has completed a course in civil engineering at the University of Southern California, which has fitted him to take part in the future development of Mexico.

"I want to be of use to my country," Estrada said. "If I am not allowed to return to Mexico, then I shall go to some other Latin country where I can at least be of service to my race."

First, he said, he desires to get some practical experience as an engineer in the United States. The ex-warrior is chiefly interested in highway construction for he believes that development of transportation is the chief problem of his country today.

"Highways must come before any great amount of railroad construction can be hoped for," Estrada declared. "Mexico will have a finer railroad system in a few years, but meantime highways must be built."

So his studies at the University were concentrated upon power, highway construction and the use of concrete.

He wants to get experience in the United States because of the wide experimentation that has been conducted here, he said.

SMOKE ABATEMENT CAMPAIGN SUCCESSFUL AT SALT LAKE

For several years Salt Lake City, Utah, has been waging a smoke-abatement campaign in which the municipal authorities have had the co-operation of the U. S. Bureau of Mines and the University of Utah. The result has been to reduce the smoke from large industrial and heating plants 90 per cent. The campaign began in 1921 by the organization of a department of smoke inspection and abatement. An ordinance was drawn according to a plan recommended by the Bureau of Mines and a vigorous educational campaign was undertaken with all classes of fuel consumers. As a result of nine years' activity, although the smoke problem has not yet been definitely solved, it has been established that a large reduction can be made in the smoke from big industrial and heating plants and that even small heating plants can be successfully converted into smokeless types at small cost.

EMBARGO IS ORDERED ON RUSSIAN LUMBER

A general order by Assistant Secretary of Treasury Lowman was issued July 25 placing an embargo on pulp wood imports from Russia. A Treasury Department investigation of the labor used in producing lumber in Russia has progressed to a point where it has been determined almost conclusively that convict labor is largely used in the timber industry.

SCHOOL BUILDING ACTIVE

During a period of comparative slump for building trades in California, school-house building is going ahead at an unprecedented steep, and is providing work for many unemployed. Plans have been approved for 69 new school buildings in 23 California counties, the State Department of Education announces, the aggregate cost being more than \$1,500,000.

TWENTY-FIVE CITIES REPORTING LARGEST VOLUME OF PERMITS FOR FIRST HALF OF 1930 AND JUNE, WITH COMPARISONS*

	First Half, 1930	First Half, 1929	June, 1930	June, 1929
1. New York	\$203,622,725	\$679,965,306	\$34,810,752	\$37,179,718
2. Los Angeles	39,712,901	54,071,599	5,485,138	8,002,185
3. Chicago	38,089,900	115,423,700	4,419,406	13,826,100
4. Philadelphia	36,106,839	59,486,200	8,967,155	10,916,385
5. Detroit	27,486,168	55,830,545	5,103,077	9,564,058
6. Cincinnati	24,279,542	16,437,000	2,388,095	3,418,410
7. Baltimore	19,984,240	19,180,760	2,916,840	5,064,120
8. Washington	17,904,567	41,539,315	1,613,055	1,616,735
9. Seattle	16,932,380	20,508,300	1,581,855	3,055,800
10. Milwaukee	16,633,420	20,484,499	3,065,261	3,217,593
11. Cleveland	13,952,225	18,539,750	2,035,925	3,659,500
12. Boston	13,643,661	28,157,750	1,520,343	2,623,715
13. San Francisco	12,548,929	18,229,361	2,232,809	2,303,317
14. Oklahoma City	10,484,780	11,312,020	1,572,491	1,838,665
15. Pittsburgh	9,971,454	18,190,003	2,397,326	5,051,277
16. St. Louis	9,304,723	15,980,089	2,107,466	2,149,240
17. Houston	8,933,451	18,302,723	1,280,850	1,590,645
18. Kansas City	8,202,075	6,094,500	829,450	759,350
19. Newark	7,545,434	14,893,952	1,355,864	5,084,201
20. St. Paul	7,127,170	4,427,504	3,437,536	1,064,962
21. Memphis	7,004,468	4,558,034	1,103,410	529,949
22. Jersey City	6,574,235	10,083,651	177,829	4,268,255
23. Akron	6,432,418	11,275,938	2,161,819	2,056,071
24. Minneapolis	6,366,855	14,426,185	1,792,700	2,310,940
25. Buffalo	6,254,465	7,787,929	982,979	2,117,232
	\$575,099,011	\$1,285,177,013	\$95,339,455	\$133,268,423

* Compiled by S. W. Straus & Co.

STATES REPORT 32,522 MILES OF HIGHWAYS IMPROVED IN 1929

In 1929, the highway departments of the 48 States improved a total of 32,522 miles of State highways, according to reports received from the departments by the Bureau of Public Roads, U. S. Department of Agriculture. In the year they expended a total of \$910,485,291 for highways. They also reported a total of 314,136 miles of highways in the State systems at the end of 1929.

The total mileage improved is an increase of 3270 miles over the 1928 figure, and includes 7451 miles of graded and drained earth roads and 25,071 miles of new surfacing. New surfaces were placed on three types of roads — on unsurfaced roads, on roads already improved with a lower type of pavement, and on roads of the same type of surfacing, which is classed as reconstruction work. Of the 25,701 miles of new surfacing, 14,014 miles were laid on unsurfaced earth roads, 4337 miles on a lower type of surfacing, and 6720 miles on the same type of surfacing.

The types and mileages of new surfacings are as follows: Sand-clay and topsoil, 2399 miles; gravel, 12,183 miles; waterbound macadam (treated and untreated), 1642 miles; bituminous macadam, 1200 miles; sheet asphalt, 116 miles; bituminous concrete, 440 miles; Portland cement concrete, 6991 miles; and brick and other block pavements, 100 miles.

The total of 314,136 miles in the State systems represents an increase of 7694 miles over the 1928 figure, and includes 208,324 miles of surfaced highways, 28,553 miles of graded and drained roads, and 77,259 miles of unimproved and partly graded highways.

The surfaced mileage consists of 133,211 miles of low-type and 75,113 miles of high-type surfacing. The low-type surfaces include 15,442 miles of sand-clay and topsoil; 97,838 miles of gravel; and 19,331 miles of water-

bound macadam. High-type surfaces include 14,043 miles of bituminous macadam; 1498 miles of sheet asphalt; 5722 miles of bituminous concrete; 50,584 miles of Portland cement concrete; and 3266 miles of vitrified brick and other block pavements.

For construction and right-of-ways the State spent \$557,400,625; for maintenance, \$173,060,321; for equipment and machinery, \$18,056,509; for interest on outstanding bonds and notes, \$45,834,531, and for miscellaneous items, \$5,524,358. The States also paid out \$42,384,378 in retirement of the principal of outstanding bonds and notes and transferred \$45,791,374 to county and town funds for local roads. Other obligations assumed by the State highway departments amounted to \$22,433,195.

The total sum available to the 48 States for 1929 for State highway and bridge work under supervision of State highway departments (including bond payments and transfers to counties) amounted to \$1,914,775,026. This was made up of an unexpended balance of the previous year's funds of \$232,967,988, and an income of \$961,807,038. Of this sum, motor vehicle fees of \$278,092,734 and gasoline tax receipts of \$287,253,416 allotted to State highways represented more than 58 per cent. Sales of State bonds and notes issued for State highways amounted to \$161,229,297, or more than 16½ per cent of the income. Federal-aid fund allotments of \$7,752,691 represented 8 per cent. Highway taxes levied in several States amounted to \$11,431,349, and appropriations for highway funds by several States totaled \$60,305,631. Miscellaneous income was reported as \$11,726,508, and funds transferred from local authorities at \$74,190,412. The States reported an unexpended balance of \$284,289,735, at the end of 1929.

U. S. ROADS BUREAU TO TEST PAVEMENT DESIGN

To determine the relative efficiency of several designs of concrete pavements and to develop more exact knowledge of the amount and distribution of stress in pavement slabs resulting from loads applied to them in various positions, the Bureau of Public Roads of the U. S. Department of Agriculture is constructing numerous full-size concrete pavement slabs at the Experiment Farm of the department at Arlington, Va. The slabs will later be subjected to an elaborate series of tests.

Some slabs will be of uniform thickness throughout. Tests on these are expected to furnish information regarding the relation between loads applied at various points and the stress and strain of the concrete at all points in the loaded cross section, and the relation between load resistance and slab thickness.

Other slabs will be thickened at the edges and for a certain distance from the edges in accordance with the different designs now used in several States. In some slabs the thickening will be provided for by excavating the subgrade under their edges. In others the surface of the concrete slab will be raised at the edges so as to form a low, rounded lip curb. In still others the lip curb will be combined with a thickening of the edge of the slab at the bottom. Observations of these sections will furnish information regarding the relative load-resisting properties of designs now in use in various States.

The test slabs, which will be 20 ft. wide by 40 ft. long, will have central longitudinal and transverse joints. The object of one test is to determine the efficiency of various methods in use for transferring load across these joints.

Other experiments will include bond tests of dowel bars to determine the length of embedment necessary; the measurement of subgrade friction with particular attention to the effect of edge thickening of transverse joints on resistance to the sliding of the slabs on the supporting surface; and the measurement of the movement of the slab in the subgrade as a result of temperature and moisture changes.

The work of construction of the slabs has just begun, and the concrete will be laid in late summer. The tests will be under way in October when they may be observed by engineers from all parts of the world who will be in Washington from October 6 to 11 to attend the Sixth International Road Congress, to be held in this country at the invitation of the U. S. Government.

U. S. STEEL EARNINGS

United States Steel Corporation on July 29 reported total second quarter earnings of \$47,061,304 compared with \$49,615,397 in the March 31st quarter and \$71,955,461, the pace-time record, in the second three months of 1929. The figures are after the usual deductions for operating expenses.

Net income for the last quarter was \$32,126,717 against \$35,777,807 in the first three months of 1930.

Unfilled orders on hand June 30th totaled 3,968,064 tons in contrast with 4,570,653 on March 31st and 4,256,910 a year ago.

The directors declared the usual quarterly dividend of \$1.75 a share on common and preferred stock.

CITY MANAGER TO MARRY

Edwin Dames, Pacific Grove city manager, has filed application for a marriage license at Salinas. Dames is to wed Beatrice M. Donald, 27, of San Francisco.

Building News Section

APARTMENTS

Plans Being Completed.

APARTMENT HOTEL Cost, \$150,000
OAKLAND, Alameda Co., Cal. Lake-side District.

Six-story and basement steel frame and brick Class C apartment hotel 100x115 ft.; 162 rooms; 2, 3 and 4-room apts.)

Owner—Withheld.

Architect—Leonard H. Ford, 1435 Harrison St., Oakland.

Segregated figures will be taken in about 30 days.

Commissioned To Prepare Plans.

APARTMENTS Cost, \$200,000
LOS ANGELES, Cal. Rossmore Ave. bet Clinton and Melrose Sts.

Six-story and basement reinforced concrete apartments (72x130 ft.)
Owner—Andrew Browne, 525 S. Gramercy Place, Los Angeles.

Architect—A. I. Rouda, 502 Lissner Bldg., and C. Hugh Kirk, 522 S. Western Ave., Los Angeles, Associated.

Sub-Contracts Awarded.

APARTMENTS Cost, \$40,000
SAN FRANCISCO, S Greenwich St. near Franklin St.

Three-story frame and stucco apts. (36 rooms).

Owner—Mrs. Sarah Schwalbe.

Private Plans.

Contractor—Laughlin Const. Co., 421 Mills Bldg.

Plumbing and Steam Heating—T. H. Phillips, 176 Judson Ave.

Brick Work—Emil Hogberg, 666 Mission St.

Concrete Work—Acme Conc. Co., 2254 51st Ave.

Carpenter Labor (rough and finish)—E. Klemm, 1668 Market St.

Ornamental Iron, Structural Steel and Steel Sash—F. Kern and Sons, 517 6th St.

Rough Hardware—Central Hardware & Glass Co., 638 4th St.

Lumber—J. H. McCallum, 748 Bryant.

Contract Awarded.

APARTMENTS Cost, \$58,000
OAKLAND, Alameda Co., Cal. Erie St. near Mandanna Path.

Three-story and basement brick veneer apartments (15 2 and 3-room apts.)

Owner—Mrs. Louise Brain, 3600 Lakeshore Drive, Oakland.

Plans by Clay N. Burrell, American Bank Bldg., Oakland.

Contractor—Felix Sonmarstrom, 738 E-17th St., Oakland.

Owner Taking Bids.

APARTMENTS Cost, \$15,000
ALBANY, Alameda Co., Cal. Solano Avenue.

Two-story frame and stucco stores & apartments (4 3-room apts.; 2 stores).

Owner—Harry Brown, % T. J. Clancy Real Estate Co., 1723 Telegraph Ave., Oakland.

Plans by Clay N. Burrell, American Bank Bldg., Oakland.

Commissioned To Prepare Plans.

APARTMENTS Cost, \$500,000
LOS ANGELES, Cal. Sweetzer and Fountain Aves.

Limit-height steel frame and reinforced concrete apartments (193

rooms; 61x92 feet).

Owner—Chateau Dijon Holding Co.
Architect and Engineer—Sheet & Hillier, 328 Story Bldg., L. A.

Plans Completed.

APARTMENTS Cost, \$60,000
OAKLAND, Alameda Co., Cal. Orange and Pearl Sts.

Three-story and basement brick veneer apartments.

Owner—L. J. Newton, 1130 First Ave., Oakland.

Plans by Clay N. Burrell, American Bank Bldg., Oakland.

Plans Being Prepared.

APARTMENTS Cost, \$150,000
OAKLAND, Alameda Co., Cal. Location Withheld.

Six-story frame and brick apartments and stores (140 rooms; 3 stores).
Owner—Withheld.

Plans by Clay N. Burrell, American Bank Bldg., Oakland.

More definite information will be given in two weeks.

Sub-Bids Wanted.

APARTMENTS Cost, \$25,000
SAN MATEO, San Mateo Co., Cal. No. 219 Ninth Avenue.

Two-story frame and stucco apartments.

Owner and Builder—F. S. French, 17 Alviso St., San Francisco.

Architect—None.

Sub-bids wanted on the following portions of the work: Concrete and cement, wiring, painting, refrigeration, plumbing, steam heating system, sheet metal, roofing, interior tile, hardwood flooring, brick work, plastering, gas ranges, wall beds, electric fixtures, hardware, mill work, lumber, steel beams, shades, insulation, carpets and linoleum.

Plans Being Prepared.

APARTMENTS Cost, \$50,000
SAN FRANCISCO, SE Pierce and Alhambra Sts.

Three-story and basement frame and stucco apartments (12 3, 4, and 5 rooms apts.)

Owner—Withheld.

Architect—Richard Irvine, Call Bldg., San Francisco.

A Demonstration of the

SKILSAW PORTABLE ELECTRIC HAND SAW

Will solve your cutting problems.

(Four Models, 1/2 to 1 h. p.)

ELECTRIC HAMMERS ELECTRIC DRILLS GRINDERS, BUFFERS

PETER H. NELSON

Labor Saving Portable Electric Tools.

1222 Mission St.
San Francisco

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1267

General Contract Re-Awarded.

ALTERATIONS Cost, \$50,000
SAN JOSE, Santa Clara Co., Cal. W-Santa Clara Street.

Alter present building for three-story apartment house (48 rooms).

Owner—Paul Masson Building.

Architect—W. H. Weeks, Hunter-Du-lin Bldg., San Francisco; 1736 Franklin St., Oakland, and Bank of Italy Bldg., San Jose.

General Contract previously awarded to C. N. Swenson of San Jose has been withdrawn and the contract awarded to Minton Co., Palo Alto.

As previously reported, elevators awarded to Spencer Elevator Co., 166 7th St., S. P.; electric work to Gilbert Bros., 286 W-Santa Clara St., San Jose, at \$1938.

Sub-Contracts Awarded.

APARTMENTS Cost, \$37,500
SAN FRANCISCO, Greenwich St. and Franklin St.

Three-story frame and stucco apartments.

Owner—Mrs. Sara Schwalbe, 1597 Greenwich St.

Plans by Builders.

Contractor—Laughlin Const. Co., Room 421, Mills Bldg.

Wiring—P. F. Goodman, 350 Waller St.

Elec. Refrigeration—Frigidaire Corp., 16th and Harrison Sts.

Mill Work—Portman Planing Mills, 1615 Mission St.

Sub-bids are being taken on plastering, painting, roofing, sheet metal.

BONDS

SAN BERNARDINO, Cal.—Big Bear Lake School District will hold election August 15 to vote bonds of \$75,000 for erecting new school buildings. Walter F. Teglaft, C. E. Cooper and H. P. Trahm, trustees of district.

FIREBAUGH, Fresno Co., Calif.—Firebaugh Grammar School District votes bonds of \$5000 to finance construction of a classroom annex to the present building.

CHURCHES

Bids To Be Taken In About 30 Days.
ORGAN SCREEN Cost, \$6000
SAN FRANCISCO, Saint Patrick's Church, Mission St., Bet. Third and Fourth Sts.

Manufacturer and install organ screen
Owner—Roman Catholic Archbishop, 1100 Franklin St., San Francisco.
Architect—Arnold Constable, 580 Market St., San Francisco.

Organ contract was previously awarded to Skinner Organ Co.

Contract To Be Awarded.

CHURCH Cost, \$—
REDWOOD CITY, San Mateo Co., Cal. James and Hudson Sts.

One-story, basement and mezzanine floor frame and stucco church (auditorium to seat 325; 6 Sunday school rooms, ladies' parlor, pastor's study and dining room).

Owner—First Baptist Church (Rev. C. H. Gatchell, Pastor).

Architect—G. Hodgson, Daniel Stanford Bldg., Redwood City.

Contractor—J. W. Cabbage, Palo Alto.

Contract Awarded.
CHURCH Cost, \$—
SOUTH SAN FRANCISCO, San Mateo Co., Cal. Elm and Miller Aves. Stucco church (bungalow type).
Owner—Christian Science Society, 311 Maple Ave., South San Francisco.
Architect—None.
Contractor—R. C. Stickle, South San Francisco.

ROSEVILLE, Placer Co., Cal.—Methodist Church Society of Roseville will campaign for funds to finance erection of a new church to replace edifice recently destroyed by fire. The structure will be erected at Main and Jones streets. Site is 75 by 140 ft. Plans will provide for a church auditorium, 8 classrooms for Sunday school instruction, social hall and modern kitchen.

Bids In—Under Advisement.
ADDITION. Cost, \$25,000
SOUTH SAN FRANCISCO, Balboa Street and 40th Ave.
One-story and basement frame and stucco addition to church.
Owner—Roman Catholic Archbishop.
Architect—Geo. McCrea, Hearst Bldg.

FACTORIES AND WAREHOUSES

Contract Awarded.
BARN Cost, \$—
STOCKTON, San Joaquin Co., Calif. County Fair Grounds.
Frame cattle barn.
Owner—County of San Joaquin.
Architect—W. J. Wright, Mail Bldg., Stockton.
Contractor—John Hackman, Sonora Road and Walker Lane, Stockton.
Erection of the three frame livestock buildings with composition roofs, as originally provided in the call for bids has been deferred until after the county fair. Due to the short period of time for their completion, seventeen days, the county supervisors voted to ask new bids on the construction at the close of the fair.

Contract Awarded.
FACTORY Cost, \$10,000
TULARE, Tulare Co., Cal. Elliott Tract.
Two-story frame garment factory, (50x100 ft.)
Owner—Tulare Garment Corp. (A community project), J. F. Manning, Manager, Tulare.
Private Plans.
Contractor—L. S. Sheppa, Tulare.

Planned.
CAKE PLANT Cost, \$300,000
HONOLULU, T. H.
Three-story and basement cake and cracker manufacturing plant.
Owner—Love's Biscuit & Bread Co., Honolulu, T. H.
Architect—Not Selected.

Sprinkler System Bids Rejected.
ASSEMBLY PLANT Cost, \$3,500,000
RICHMOND, Contra Costa Co., Cal.
Group of steel frame and brick buildings (1-story assembly plant, 300,000 sq. ft.; 2 or 3-story wharf building and receiving building).
Owner—Ford Motor Car Co., Detroit.
Architects & Engineers, Albert Kahn, Inc., Marquette Bldg., Detroit.
Chief Engineer (Ford Motor Car Co.)—R. B. Brown, Detroit.

Contractor—Clinton Constr. Co., 923 Folsom St., San Francisco.
Bids for the sprinkler system have been rejected. Plans will be revised and new bids will be asked within three weeks. As previously reported the following sub-contracts were awarded in connection with this project: Iron and steel to Herrick Iron Works, 18th and Campbell Sts., Oak-

land (Involves 4000 tons); heating, ventilating and plumbing to F. W. Snook Co., 596 Clay St., S. F.; electric work to Alta Electric Co., Inc., 938 Howard St., S. F.

HANFORD. Kings Co., Cal.—Slaughter house and refrigerating plant of W. C. Gallaher Co., just beyond the Hanford city limits, was destroyed by fire July 23. The loss is estimated at \$65,000.

Plans Being Figured—Bids Close Aug. 6, 2 P. M.

SHED Cost, \$90,000
SOUTH SAN FRANCISCO, Pier No. 1.
One-story shed (reinforced concrete construction; steel columns, wood roof).
Owner—State Board of Harbor Commissioners.
Engineer—Frank White, Ferry Bldg.

Contract Awarded.
PACKING PLANT Cot, \$20,000
SAN JOSE, Santa Clara Co., Cal. Berryessa Road (15 acre site).
One and two-story reinforced concrete meat packing plant and one and two-story reduction plant of galvanized iron and brick construction.

Owner—Continental Packing Co., Ltd., (represented by W. H. Lehrback and Geo. F. Cokely, 1217 Park Ave., San Jose).
Architect—Lescher & Mahoney, Phoenix, Arizona.
Contractor—Thermotite Constr. Co., 580 Stockton Ave., San Jose.
NOTE—Plans for this plant proper were prepared by Lescher & Mahoney. Plans for the reduction plant were prepared by W. W. Lehrback of the owner's engineering department.

Plans Completed.
ADDITION Cost, \$175,000
LOS ANGELES, Cal. No. 3852 Union Pacific Avenue.
Two-story concrete ad steel Class A addition to factory (180x220 ft.)
Owner—Los Angeles Can Co., 3852 Union Pacific Ave., Los Angeles.
Architects and Engineers—Francisco & Jacobus, 1112 Pershing Square Bldg., Los Angeles.

WILLITTS, Mendocino Co., Calif.—Warehouse of Northwestern Redwood Co. on railroad near State St. was destroyed by fire July 21.

Grading Contract Awarded.
PLANT Cost (1st unit), \$500,000
PITTSBURGH, Contra Costa Co., Cal.
Twenty-acre site available.
Refractories plant.
Owner—Stockton Fire Brick Co., Russ Bldg., San Francisco.
Engineer—K. Theill, 550 Market St., San Francisco.

Grading—Delta Dredging Co., Pittsburg.
As previously reported, steel tank awarded to Chicago Bridge & Iron Works, Rialto Bldg., San Francisco. Tank will be on 105-foot tower and of 30,000-gal. capacity.
Modern equipment will be installed, including a continuous car tunnel kiln. There will be considerable steel work involved.

Bids To Be Taken In One Week.
FACTORY Cost, \$25,000
OAKLAND, Alameda Co., Cal. 46th and Telegraph Aves.
Two-story reinforced concrete factory and warehouse.
Owner—Margaret Burnham Candy Co., 3800 Piedmont Ave., Oakland.
Plans by George E. Koster, 2355 Leavenworth St., San Francisco.

Contract Awarded.
HANGAR Cont price, \$6187
WATSONVILLE, Santa Cruz Co., Cal. Corrugated iron and frame hangar (80 by 100 ft.)
Owner—Watsonville Airport Company.
Architect—A. W. Story, Pajaro Valley Bank Bldg., Watsonville.
Contractor—Fred McCrary, Monterey.
Following is a complete list of bids:
Fred McCrary, Monterey \$5,187
T. H. Rosewall, Watsonville 6,200
W. D. Lovless, Watsonville 6,400
Grant L. Miner, Palo Alto 6,466

Plans To Be Prepared.
MILL Cost, \$200,000
BRODERICK, Yolo Co., Cal.
Rebuild mill.
Owner—California Rice Growers Assn. (E. L. Adama, president, Chico).
Architect—Not Selected.
Mill was recently destroyed by fire, with loss of \$450,000.

Preparing Working Drawings.
FACTORY Cost, \$100,000
PORT SAN FRANCISCO, San Mateo Co., Cal. Near Belmont.
One- and two-story steel frame and brick factory and offices (100x100 feet).
Owner—William Shredded Wheat, 625 Market St., San Francisco.
Architect—Walter Falch, Hearst Bldg., San Francisco.
Bids will be taken in 2 or 3 weeks.

Contract Awarded
DAIRY BLDGS. Cost, \$—
BUTTERNWILLOW, Kern Co., Cal. Butternwillow Ranch.
Group of dairy buildings.
Owner—Achoh Stock Farms.
Architect—Morgan, Walls & Clements Van Nuys Bldg., Los Angeles.
Contractor—Macdonald & Driver, 111 W-Seventh St., Los Angeles.
There will be a dormitory unit, 44x 100 feet in area, an office unit and a dining room and kitchen unit. They will all be one-story frame structures with board and batten siding, shingle roofs, skylights, wood floors, fire-proof heater room. Corrals will also be constructed.

GARAGES AND SERVICE STATIONS

Contract Awarded.
SALES BLDG. Cost, \$20,000
NEWMAN, Stanislaus Co., Cal.
One-story brick auto sales and service building.
Owner—Thomas Rose.
Architect—H. G. Bissell, 421 E. Miner St., Stockton.
Contractor—Roy Krueger, Gustine.

Plans Being Figured—Bids Close Aug. 5th.
GARAGE Cost, \$35,000
BERKELEY, Alameda Co., Cal. Durant and Fulton Sts.
One-story reinforced concrete garage and salesroom.
Owner—Victor H. Doyle, 74 Oak Ridge Road, Berkeley.
Architect—Fred H. Reimers, Franklin Bldg., Oakland.

GOVERNMENT WORK AND SUPPLIES

Contract Awarded.
POST OFFICE Cost, \$206,700
PRESCOTT, Arizona.
Three-story and basement brick stone and terra cotta Post Office (7400 square feet).
Owner—United States Government.
Architect—Supervising Architect, Washington, D. C.
Contractor—Robert E. McKee, El Paso, Texas.

VALEJO, Solano Co., Cal. — Bureau of Yards and Docks, Navy Department, Washington, D. C., is preparing plans for proposed seawall at Mare Island Navy Yard. Funds to finance will be provided from the \$1,106,000 public improvement bill.

Plans Being Completed.
BARRACKS Cost, \$543,000
MARE ISLAND, Solano Co., Calif.
Mare Island Navy Yard.
Barracks building for Submarine Base Owner—U. S. Government.
Engineer—Bureau of Yards & Docks, Navy Dept., Washington, D. C.

SACRAMENTO, Cal.—Until August 5, 3 P. M., under Order No. 2251, bids will be received by U. S. Engineer Office, California Fruit Bldg., for barge hire for period of 60 days. Barge to have a beam of not less than 28 ft., a length of not less than 70 ft., and built with a long rake at the bow end to facilitate towing. It shall have a maximum draft of not over 9-in. when light. It shall be strongly constructed so as to stand heavy or hard usage in working in the Sacramento River between Sacramento and Colusa. Further information obtainable from above.

SAN FRANCISCO—Until August 6, under Circular No. 4, bids will be received by Medical Section, Army Base, Fort Mason, to furnish four electric refrigerators. Specifications and further information obtainable from above.

SAN FRANCISCO—Until August 11, 10 A. M., under Schedule No. 928-31-14, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver miscellaneous paints. Further information obtainable from above.

SAN FRANCISCO—Until August 11, 10 A. M., under Schedule No. 928-31-14, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver miscellaneous hotel-ware, etc. Specifications obtainable from above.

PHOENIX, Ariz.—Until August 14, 2 P. M., bids will be received by Jno. B. Brown, superintendent, Phoenix Indian School, 4100 Rhoads Circle, Phoenix, to furnish and deliver one surgical pump combination consisting of two pumps, one for pressure and one for suction. Further information obtainable from above.

FAIRBANKS, Alaska—Until August 4, under Circular No. 4, bids will be received by Officer in Charge, Washington Alaska Cable & Telephone System, 3113 Arcade Bldg., Seattle, Wash., for painting radio station at Fairbanks. Specifications obtainable from above.

Plans Being Figured—Bids Close Aug. 11, 11 A. M.
MARBLE WORK Cost, \$—
SAN FRANCISCO. The Presidio.
Tiling and marble work in Cystoscope room and two toilet rooms at Letterman General Hospital.
Owner—U. S. Government.
Architect—Constructing Quartermaster, Fort Mason.
Plans obtainable from Constructing Quartermaster.

SAN FRANCISCO—Until August 4, 10 A. M., under Schedule No. 928-31-24, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver six Bentwood Vienna chairs, mahogany finish; one portable desk writing lamp; 1 portable electric drill, ¼-in.

capacity. Further information obtainable from above.

ALAMEDA, Alameda Co., Cal.—Of the total amount of money required to finance construction of the proposed Alameda Air Base for the Federal Government, \$780,000 is available for immediate use, according to word received by Congressman Albert E. Carter from the Secretary of War.

Construction of the project will not be started until the city of Alameda officially turns the property over to the Government. All construction on the air base will probably be under the supervision of the Constructing Quartermaster at Fort Mason, San Francisco, although this has not been definitely decided.

Contemplated construction in connection with the project, according to information received from the Secretary of War by Congressman Carter, follows:

Hangars	\$177,000
Shops	322,000
Warehouses	500,000
Administration Bldg.	40,000
Heating Plant	75,000
Gas Storage Plant	10,000
Paint, Oil & Dope Warehouses ..	20,000
Paving Apron at Hangar	51,000
Grading Flying Field and building area	500,000
Seawall	178,000
Night Lighting System	15,000
Quartermaster's Appropriations for Officers' Quarters	300,000
Quartermaster's Appropriations for Warehouse	45,000
Boathouse and Dock	125,000
Fire Station	18,000
Garage	50,000
Telephone and Telegraph systems	37,000
Water System	20,000
Hospital	30,000
R. R. Spur Track	20,000
Incinerator	5,000
Sewage Disposal Plant	25,000

SACRAMENTO, Cal.—Until August 28, 3 P. M., under Circular Proposal No. 31-30, Specifications No. 2070, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, for dredging approximately 779,000 cubic yards of material in New York Slough. Specifications and further information obtainable from above office.

Bids Opened.
PAINTING BLDGS. Cost, \$—
SAN FRANCISCO. Presidio.
Interior painting of laundry building No. 24 at Letterman General Hospital.
Owner—United States Government.
Architect—Constructing Quartermaster, Fort Mason.
Following is a complete list of bids:
E. Kahler, 723 Baker St. \$ 890
Monte Moore 1,440 || Piedmont Pacific Dec. Co. | 1,687 |
Geckler & Rocca	1,790
E. Anderson	1,850
A. Paoli	1,890
W. M. Brown	1,900
D. E. Burgess	2,133

Bids held under advisement.

July 25, 1930
Plans Being Figured—Bids Close Aug. 21, 11 A. M.
QUARTERS Cost, \$—
FORT LEWIS, Washington.
Five Field Officers Quarters and 22 Non-Commissioned Officers' Quarters.
Owner—U. S. Government.
Architect—Constructing Quartermaster, Fort Lewis, Wash.

Plans obtainable from Constructing Quartermaster at Fort Lewis on deposit of \$25 for Field and Company Officers' Quarters and \$15 for Non-Commissioned Officers' Quarters, both returnable. Checks for same to be made payable to the Treasurer of the U. S.

PAULO ALTO, Santa Clara Co., Cal.—Until August 19, bids will be received by Treasury Department, Washington, D. C., to furnish Federal Government with a site for proposed new post office. A corner site containing approximately 32,500 square feet is desired.

Additional Sub-Contracts Awarded.
SHELL HOUSES Cost, \$160,000
MARE ISLAND, Cal. Mare Island Navy Yard.
Six one-story reinforced concrete shell houses and extension to railroad. Owner—United States Government.
Architect—Bureau of Yards & Docks, Navy Dept., Washington, D. C.
Contractor—MacDonald & Kahn, Financial Center Bldg., San Francisco.

Roofing—Malott & Peterson, 3221 20th St., San Francisco.
Lightening Protectors—W. B. Baker & Co., Inc., 270 Sixth St., San Francisco.

SACRAMENTO, Cal.—Until August 5, 3 P. M., under Order No. 2217, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver 8,500 linear feet of piling. Specifications obtainable from above office.

SACRAMENTO, Cal.—Until August 4, 3 P. M., under Order No. 2220-1669, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver miscellaneous castings. Spec. obtainable from above office.

LOS ANGELES, Cal.—Until August 26, 3 P. M., bids will be received by U. S. Engineer Office, 751 S. Figueroa St., for repairing revetment at Reservation Point in Los Angeles Harbor. Specifications obtainable from above.

WASHINGTON, D. C.—Bids are being received by Bureau of Supplies & Accounts, Navy Department, Washington, D. C., to furnish and deliver miscellaneous supplies and equipment as noted in the following schedules, further information being available from the Navy Department Office, 100 Harrison St., San Francisco:

Bids Open August 12

Mare Island, 60 boxwood scales; Puget Sound, 10 do, 15 sets drawing instruments and 164 drawing triangles, sch. 3819.

Mare Island, parts for motor boat gasoline engines; sch. 3813.

Western Yards, steel rivets and Washers, sch. 3819.

San Diego, 3900 lbs. steel wool; Puget Sound, 3900 lbs. do, sch. 3816; western yards, approximately 29,000 deck and general purpose buckets, sch. 3817.

Mare Island, 3 motor trucks and 1 truck chassis; San Francisco, 8 motor trucks, sch. 3818.

Western yards, insulated cable and wire, sch. 3850.

Mare Island, 1 portable dynamic balancing equipment, sch. 3862.

Mare Island, microphone buttons and units, sch. 3778.

San Diego, sheet steel, sch. 3831.

Western yards, liquid door checks, sch. 3846.

San Francisco, ball bearings, sch. 3848.

Mare Island, 16,000 lbs. ester gum, sch. 3853.

Bids Open August 19

Western yards, locks and latches, sch. 3824.

Mare Island, 10 weighing scales; Puget Sound, 12 counter scales, sch. 3838.

Mare Island, 20,000 lbs. rust preventive compound, sch. 3841.

SAN FRANCISCO—Until August 11, 10 A. M., under Schedule No. 928-31-14, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver 3,990 lbs. boiler compound. Further information obtainable from above.

SAN FRANCISCO—Until August 11, 10 A. M., under Schedule No. 928-31-14, bids will be received by Quartermaster Supply Officer, Fort Mason, to furnish and deliver 500 bbls. road asphalt, grade C, 2-30 penetration. Further information obtainable from above.

SAN FRANCISCO—Until August 11, 10 A. M., under Schedule No. 928-31-14, bids will be received by Quartermaster Supply Officer, Fort Mason, to furnish and deliver 2,000 lbs. plastic furnace cement, "Pilibrico" or equal. Further information obtainable from above.

SAN FRANCISCO—Until August 5, under Circular No. 3, bids will be received by Contracting Officer, Medical Section, San Francisco General Depot, Fort Mason, for one steam distilling apparatus. Specifications and further information obtainable from above.

SAN FRANCISCO—Until August 11, 10 A. M., under Schedule No. 928-31-14, bids will be received by Quartermaster Supply Officer, Fort Mason, to furnish and deliver:

48 arm folding (or collapsible) chairs; (equal to No. 35 Gold Medal). Alternate bids will be considered with all brass hardware.

36 arm folding chairs, (equal to No. 5741 Heywood-Wakefield Co.)

24 Vienna Bentwood chairs, mahogany finish with padded leather seat, 6-in. dia., of seat; back height 17½ inches.

Further information obtainable from above.

PHOENIX, Ariz.—Until Aug. 9, bids will be received by U. S. Property and Distributing Officer, Militia Bureau, Phoenix, Ariz., for construction of 18 mess halls, complete with plumbing and electric wiring; 2 latrines, complete with plumbing and electric wiring, camp warehouse, complete with plumbing and electric wiring; administration bldg., complete with plumbing and electric wiring; power house, with plumbing, but omitting electric wiring and equipment; infirmary, complete with plumbing and electric wiring; guard house, complete with plumbing and electric wiring; installation of sewage disposal plant and water system (outside work); installation of camp electrical distribution system, and wiring and installing equipment in power house. Deposit of \$25 required for plans, obtainable from above.

TUCSON, Ariz.—Brooks of California, Inc., Los Angeles, at \$11,716 awarded contract by U. S. Veterans' Bureau to install sprinkler system in Veterans' Hospital at Tucson.

Plans Complete
CLUB BLDG. Cost, \$400,000
LONG BEACH, Los Angeles Co., Cal. Cedar Ave., bet. Ocean Ave. and Broadway.

Three-story and basement reinforced concrete club building (80x150 ft.)
Owner—Long Beach Lodge, No. 888, R. P. O. Elks

Architect—W. Horace Austin, Pacific Southwest Bldg., Long Beach.

Bids will be taken within a few days.

Contract Awarded.

TEMPLE Cost, \$—
SANTA ANA, Orange Co., Cal.
Four-story steel frame and brick temple (90x117 ft.)

Owner—Santa Ana Masonic Temple Association.

Architect—W. Horace Austin, Pacific Southwest Bank Bldg., Long Beach

Contractor—Miller & Schultz, 911 N. Chester Ave., Compton.

The building committee reconsidered the action that was taken several days ago in awarding the contract to S. N. Benjamin.

Contracts Awarded.

CLUBHOUSE Cost, \$32,164
PALO ALTO, Santa Clara Co., Cal.
Stanford University Campus.
One-story golf clubhouse.

Owner—Stanford University.

Architect—John Bakewell and Arthur Brown Jr., associated, 251 Kearny St., San Francisco.

General—Wells P. Goodenough, 310 University Ave., Palo Alto.

Electric—M. E. Ryan, 231 Main St., Redwood City.

Plumbing and Heating—James H. Pinkerton Co., 927 Howard St., San Francisco.

Contract Awarded.

MEMORIAL HALL Cost, \$—
EUREKA, Humboldt Co., Cal.
St., bet. Tenth and Eleventh Sts.
One-story and basement concrete Veterans' Memorial Hall (140x98 ft.)

Owner—County of Humboldt.

Architect—Newton Ackerman, 103 W. Fourth St., Eureka.

General Contract—Mercer-Fraser Co., Eureka, at \$72,000 (revised bid).

Steam Heating—Frank E. Cook & Son, Eureka, at \$5534.

Plumbing—Moore & Cook, Eureka, at \$2552 (revised bid).

Electric Work—Eureka Electric Co., Eureka, at \$1747.

LODGE BLDG. Cont. price, \$50,733
SAN FRANCISCO, Valencia St. near Sub-Contracts Awarded.

Market St.
Three-story and basement reinforced concrete and steel lodge building (50x165-ft.)

Owner—Independent Order of Foresters.

Architect—Harold Stoner, 220 3rd Ave. San Mateo.

Contractor—Frank J. Reilly, 6350 Fulton Street.

Grading—Sibley Grading & Teaming Co., 165 Landers St.

Ornamental Iron—Patterson & Koster Iron Works, 280 13th St.

Other awards will be made shortly.

HOSPITALS

July 25, 1930

Planned.
MONASTERY Cost, \$200,000
SAN DIEGO, Cal. Normal Heights.

Monastery.
Owner—Carmelite Sisters.

Architect—None.

Plans Being Figured.

PAVILION Cost, \$800
SAN FRANCISCO. Sixth Ave. and Geary St.

Class C brick X-Ray pavilion.

Owner—French Hospital, Premises

Architect—Fabre & Hildebrand, 110 Sutter St., San Francisco.

EUREKA, Humboldt Co., Cal.—Until August 12, 2 P. M., bids will be received by Fred M. Kay, county clerk to furnish and install laundry equipment for County Hospital. Newton Ackerman, architect, 102 W. 4th St., Eureka. Certified check 10% re-

quired with bid. Specifications on file in the office of the county clerk.

Plans To Be Prepared.

HOSPITAL. Cost, \$—
KING CITY, Monterey Co., Cal.

Fireproof hospital.

Owner—King City Hospital Assn. Win. Goodspeed, president, King City.

Architect—Not Selected.

The following committees were appointed at a recent meeting of the association to further the project. Hospital Location—Dr. S. G. Kerr, chairman; A. B. Meloyndons, Keith Burns, Jim Pettitt, Jack McConry. Hospital Design and Construction—Clarence Armstrong, chairman; Dr. Geo. Starbird, Dr. Bullard, Dr. Brumwell, Bruce Douglas. Hospital Equipment—Henry Branstetter, chairman; Walter Poor, Mrs. Jas. A. Wasson, Mrs. S. G. Kerr, H. O. Williams. Hospital Operation—Wm. Steglich, chairman; Fred Nichols, H. B. Burns, Mrs. R. J. Bruce, Geo. P. Henry. Finance Committee—Joe Juri, chairman; L. H. Burns, J. A. Carlson, Bart Knox, Tom Pettitt.

Plans Being Completed.

HOSPITAL. Cost, \$300,000
STOCKTON, San Joaquin Co., Calif.

Class A brick or concrete county general hospital.

Owner—County of San Joaquin.

Architect—Fred. H. Meyer, 742 Market St., San Francisco.

Consulting Architects—Davis - Pearce Co., Grant and Weber Sts., Stockton.

Additional Sub-Contracts Awarded.

LABORATORY Cost, \$17,410
SAN FRANCISCO. Sutter and Scott Streets.

One-story brick addition to laboratory building.

Owner—Mt. Zion Hospital.

Architect—Arthur Brown, Jr., 251 Kearny St.

Contractor—Barrett & Hulp, 918 Harrison St.

Steel Sash—U. S. Metal Prod. Co., 330 Tenth St.

Plumbing & Mechanical Work—Turner Co., 329 Tehama St.

Electric Work—H. S. Tittle, 85 Columbia Square.

As previously reported, bridge work awarded to Judson-Pacific Co., \$1,591. bridge covering to H. H. Robertson Co., 639 Howard St., \$948.

HOTELS

Completing Plans.

HOTEL. Cost, \$150,000
REDLANDS, San Bernardino Co., Cal.

East State St. near Orange Ave.

Four-story brick and steel Class C hotel (55 rooms).

Owner—Arthur Gregory.

Plans by Perrine & Renfro, Lincoln Bldg., Los Angeles.

Date Of Opening Bids Postponed
Until August 14.

HOTEL. Cost, \$100,000
BLUE LAKE, Lake Co., Cal. 250-acre tract.

Three-story frame and stucco hotel (224x126 feet).

Owner—Blue Lake Hotel and Resort Corp., Harry W. Kemp, President

Architect—Chas. Strothoff, 2274 15th St., San Francisco.

Will contain 48 rooms, all of which will have private baths. Steam heating, glass enclosed porches. Basement will provide dressing rooms for bathers, a barber shop and five store rooms.

POWER PLANTS

SAN FRANCISCO—Until August 4 P. M., under Proposal No. 616, bids will be received by Leonard S. Leavy, city purchasing agent, 273 City Hall,

to furnish and deliver 10,000 lbs. No. 12 solid triple braid I.L.D.W.P. wire for Department of Electricity. Specifications obtainable from above.

OAKLAND, Cal.—Until August 13, 8 P. M., bids will be received by John H. Kimball, secretary, East Bay Municipal Utility District, 512 16th St., to furnish spare parts for equipment of Pardee Power Plant. Estimated cost, \$5,500. Specifications obtainable from above.

July 29, 1930

ANAHEIM, Orange Co., Cal.—Until August 12, 8 P. M., bids will be received by Edw. B. Merritt, city clerk, to furnish copper wire and cable under Spec. 50, following:

Item 1.—Weatherproof Wire, Section 1 of Specifications No. 50:
12,000 lbs. No. 2-0, 7 strand;
800 lbs. No. 4-0, 7 strand;
2,000 lbs. No. 2, solid;
4,000 lbs. No. 4, solid;
3,000 lbs. No. 6, solid;
2,000 lbs. No. 8, solid;
2,000 lbs. No. 10, solid.

Item 2.—Rubber Covered Wire, Section 2 of Specifications No. 50:
1,000 ft. No. 10, solid, black;
1,000 ft. No. 10, solid, white.

Item 3.—Lead Covered Cable, Section 4 of Specifications No. 50:
2,500 ft. No. 8, solid, single conductor, for 2500 volts.

Separate proposals will be received and separate awards may be made for the three items.

ALAMEDA, Alameda Co., Cal.—See "Government Work and Supplies," this issue. Contemplated construction for proposed Alameda Air Base for Federal Government.

Plans Being Completed.

POWER HOUSE Cost, \$30,000
MODESTO, Stanislaus Co., Cal.
Stanislaus County Hospital.

Two-story reinforced concrete and hollow tile power house (unit 3).
Owner—County of Stanislaus.

Architect—Russell Guerne De Lappe,
1710 Franklin St., Oakland.

Bids will be taken in two or three weeks.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

Completing Revised Plans.

AUDITORIUM Cost, \$1,050,000
PASADENA, Los Angeles Co., Cal.
Green St. and Garfield Ave
Three-story steel frame Class A municipal auditorium (200x306 ft.; capacity 3000).

Owner—City of Pasadena.

Architect—Edwin Bergstrom, 1135 Citizens National Bank Bldg., Los Angeles, and Bennett & Haskell, 311 First Trust Bldg., Pasadena, Associated.

BERKELEY, Alameda Co., Calif.—August Vollmer, chief of police, in his annual report submitted to City Manager Hollis R. Thompson, recommends erection of a new police headquarters and jail to meet the present expansion of the department. Vollmer states that the present office and jail is ill-adapted to the character of work now being performed by the department; that the office has poor ventilation and insufficient light; that the jail and headquarters are taxed to capacity and that the jail does not allow the segregation of prisoners. The police chief recommends that the new jail and headquarters include an assembly room, dressing room and locker room for officers, gymnasium, shooting gallery and red room.

BERKELEY, Alameda Co., Calif.—Fire Chief George Haggerty in his annual report just submitted to City Manager Hollis R. Thompson, recommends the erection of a new fire station in the Northbrae or Arlington District.

OAKLAND, Alameda Co., Calif.—All bids received by City Park Commission, to furnish and install two public address speakers, one in Alameda Park and one in Diamond Park were rejected. Lowest bid was submitted by W. R. Buckridge, at \$1295.

New bids will not be called for at this time.

NAPA, Napa Co., Cal.—City council approves specifications for painting and redecorating council chambers for which \$500 is available. Bids will be asked from local contractors.

RESIDENCE

Concrete & Lumber Contracts Awarded.

RESIDENCE Cost, \$15,000
OAKLAND, Alameda Co., Cal. Burr and Stearns Streets.

One and one-half-story frame and stucco residence (6 rooms).

Owner and Builder—Mrs. A. M. Forner, 9618 Burr St., Oakland.

Plans by Geo. G. Shimamoto, 1551 Laguna St., San Francisco.

Concrete—Triberti & Massaro, 957 35th St., Oakland.

Lumber—Smith Lumber Co., Foot of 18th Ave., Oakland.

Completing Plans.

RESIDENCE Cost, \$3500
SAN FRANCISCO. Westgate Drive near Darien Way.

One-story and basement frame and stucco residence (6 rooms).

Owner and Builder—G. W. Morris, 720 Athens St., San Francisco.

Plans by D. E. Jaekle, Call Bldg., San Francisco.

Sub-bids will be taken in a few days.

Completing Plans.

COTTAGES. Cost each, \$5000
PLEASANTON, Alameda Co., Cal.
Twenty one-story frame cottages.
Owner—Castlewood Country Club
Architect—E. T. Foulkes, 357 12th St., Oakland.

These cottages are to be erected for various members of the club. Plans have been completed for five and plans for the remaining fifteen are in course of preparation.

Plans Being Prepared.

RESIDENCES Cost, \$8000 each
MILLBRAE HIGHLANDS, San Mateo Co., Cal.

Two one-story and basement frame and stucco residences (5 rooms each).

Owner—Gus Moeller, 6260 Geary St., San Francisco.

Plans by D. E. Jaekle, Call Bldg., San Francisco.

Contractor—Schultz Constr. Co., Millbrae Highlands.

Preparing Plans.

RESIDENCE Cost, \$9500
SAN FRANCISCO. San Aliso Way.

One-story and basement frame and stucco residence (7 rooms).

Owner and Builder—A. J. Herzog, 1945 Ocean Ave., San Francisco.

Plans by D. E. Jaekle, Call Bldg., San Francisco.

Working Drawings Being Prepared.

RESIDENCE Cost, \$13,000
BERKELEY, Alameda Co., Cal. Hawthorne Terrace.

Two-story and basement frame and stucco residence (9 rooms).

Owner—Witchfield.

Architect—W. C. Ambrose, 605 Market St., San Francisco.

Bids will be taken in thirty days.

Plans Being Revised.

RESIDENCE Cost, \$15,000
BERKELEY, Alameda Co., Cal. Park View.

Two-story frame and stucco residence (11 rooms).

Owner—H. W. Bernheim, 266 Wildwood Ave., Berkeley.

Architect—E. L. Snyder, 2101 Addison St., Berkeley.

New bids will be taken at a later date.

Plans Being Prepared.

RESIDENCE Cost, \$8000
MILLBRAE HIGHLANDS, San Mateo Co., Cal.

One-story and basement frame and stucco residence (5 rooms).

Owner and Builder—E. Viegen, 280 Elder Ave., Millbrae Highlands.

Plans by D. E. Jaekle, Call Bldg., San Francisco.

Plans Being Prepared.

RESIDENCE Cost, \$6500
SAN FRANCISCO. Crocker Tract.

One-story and basement frame and stucco residence (5 rooms).

Owner and Builder—John Bjorkman, 311 Naylor St., San Francisco.

Plans by D. E. Jaekle, Call Bldg., San Francisco.

Sub-Bids Being Taken.

RESIDENCE Cost, \$7500
SAN FRANCISCO. Twenty-first Ave and Rivera St.

One-story and basement frame and stucco residence.

Owner & Builder—John Carlson, 2239 Bryant St., San Francisco.

Plans by D. E. Jaekle, Call Bldg., San Francisco.

Bids Opened.

RESIDENCES Cost, \$15,000
SACRAMENTO, Sacramento Co., Cal.
Forty-fifth St.

Two-story brick veneer residence.
Owner—Charles H. Carter, 1373 42nd Ave., Sacramento.

Architect—Chas. F. Dean (formerly of Dean and Dean, California State Life Bldg., Sacramento).

Following is complete list of bids:
General Work

N. H. Lund, 3300 Cutter Street, Sacramento.....	\$12,315
C. J. Hopkinson, Sacto.....	13,146
Victor Korun, Sacramento.....	13,225
Fred Enberg, Sacramento.....	13,665
W. E. Krusdale, Sacramento.....	13,674
Lindgren & Swinerton, Sacto.....	13,795
M. R. Petersen, Sacramento.....	13,863
Campbell Const. Co., Sacto.....	14,796

Electrical Work

Scott Plumbing & Electric Co., 1900 N St., Sacramento.....	\$448
Latourette-Pical Co., Sacramento 530	
Reliable Elec. Shop, Sacramento.....	550
Sterling Elec. Co., Sacramento.....	560
Luppen & Hawley, Sacramento.....	583
Electric Supply Shop, Sacramento 643	
Clifford Frudhomme, Sacto.....	862

Bids held under advisement. Contract will be awarded to low bidder shortly.

Painting Contract Awarded.

RESIDENCE Cost, \$35,000
HILLSBOROUGH, San Mateo Co., Cal.
Two-story frame and stucco residence (12 rooms).

Owner—Mrs. George Montgomery.

Architect—E. M. Sharpe, 525 Market St., San Francisco.

Contractor—Oswald & Rucker, Mills Bldg., San Francisco.

Painting—D. Zelinsky & Sons, 165 Grove St., San Francisco.

Plans Being Completed.

RESIDENCE Cost, \$12,000
HILLSBOROUGH, San Mateo Co.,
Cal. Roblar Road.
Two-story and basement frame and
stucco residence (8 rooms).
Owner—T. H. Breeze.
Architect—Willis Polk & Co., 227 Pine
St., San Francisco.
Bids will be taken about August 1.

Construction Postponed Indefinitely.
RESIDENCE Cost, \$7,500
PALO ALTO, Santa Clara Co., Cal.
One-story frame and stucco residence
(5 rooms).
Owner—R. Tinney.
Plans by E. Reichel, 303 University
Ave., Palo Alto.

Company Organized To Finance.
DWELLINGS Cost, \$—
BAKERSFIELD, Kern Co., Cal.
Seventy-five to 100 1-story frame and
plaster dwellings.
Owner—Bakersfield Builders, Inc.
Plans by Architectural Department of
Owners.

Construction will be carried on by
A. W. Croft, Bakersfield building con-
tractor, who is a member of the board
of directors. Others interested in the
corporation are: Frank McPhee, Thos.
W. Fraser, Dr. S. C. Long, W. W.
Smetzer, D. S. Weir, H. McCombs and
Arvin Richardson.

Plans Being Figured.

RESIDENCE Cost, \$12,000
SANTA ROSA, Sonoma Co., Cal.
Two-story frame and stucco residence
Owner—Thos. J. Proctor, Santa Rosa.
Plans by George E. Foster, 2355 Leav-
enworth St., San Francisco.
There will be five more residences
constructed by same owner at a later
date.

SCHOOLS

Contract Awarded.
PAINTING Cost, \$1127.50
EUREKA, Humboldt Co., Cal.
Painting Eureka High School, high
school gymnasium and manual
training building.
Owner—Eureka High School District,
Geo. E. Albee, city superintendent
of schools.
Architect—Not Stated.
Contractor—D. J. Tucker & Co., Eu-
reka.

Complete list of bids follows, all bid-
ders being of Eureka, with exception
of Mohr and Son of San Francisco:
R. J. Minnie (irregular).....\$ 960
D. J. Tucker & Co.....1,127
M. A. Truesdale.....1,219
Fred Bernau.....1,510
J. A. Mohr & Son, Inc.....1,684
H. T. Winters.....2,252

Bids Opened.
HEATERS Cost, \$—
STOCKTON, San Joaquin County, Cal.
American and Church Sts.
Installation of heaters in Lafayette
School.
Owner—Stockton School District, A. S.
Williams, secretary, Board of Edu-
cation, Lindsay and San Joaquin
Sts., Stockton.
Architect—None.

Following is a complete list of bids:
Aladdin Heating Co., 5107 Broad-
way, Oakland.....\$2,577
Ed Gretlow, Stockton.....2,887
Miller Hays Co., Stockton.....(1) 3,194
.....(2) 3,375.
Murray & Co., Oakland.....(1) 3,200
.....(2) 2,936.
Paul Harry Co., Stockton.....3,250
Bids held under advisement.
ROSEVILLE, Placer Co., Calif.
Trustees of the Roseville Union High
School District have ordered prepa-
ration of plans for the installation
of a heating plant for the gymnasium

and fine arts building at the high
school grounds.

Bids Opened.
SCHOOL Cost, \$160,000
SANTA CRUZ, Santa Cruz Co., Cal.
Two-story reinforced concrete Mis-
sion type high school.
Owner—Santa Cruz School District.
Architect—J. J. Donovan, 1916 Broad-
way, Oakland.

Following is a complete list of bids:
General Work
Wilson & McGranahan, Santa
Cruz.....\$1,874
Palmer and Balsliger, Santa
Cruz.....98,950
Carl N. Swensen, San Jose.....105,990
F. J. Westlund, Oakland.....110,440
David Nordstrom, Oakland.....112,930
G. P. W. Jensen, San Francisco.....112,900
N. J. Sjoberg, San Francisco.....115,115
J. W. Cobby & Son, S. F.....115,600
E. L. Lesure, Berkeley.....115,860
K. E. Parker, San Francisco.....116,900
J. J. Groden & Co., Alameda.....118,140
J. F. Shepherd, Stockton.....130,200
H. L. Petersen, San Francisco.....130,323

Heating
O'Mara & Stewart, 218 Clara
St., San Francisco.....\$15,874
F. W. Snook, S. F.....16,530
Wm. F. Serpa, San Jose.....16,700
Knittle Bros., San Francisco.....16,859
Carl T. Doell, Oakland.....17,240
Scott Co., Oakland.....17,663
San Jose Heating & Ventilating
Co., San Jose.....17,788
N. G. Moenning, San Jose.....18,694

Electric
C. W. Gates, Oakland.....\$3,382
Roy M. Butcher, San Jose.....6,191
Superior Electric Co., S. F.....5,763
Jddy Elec. Co., Stockton.....5,518
I. M. Smith, Santa Cruz.....5,428

Plumbing
Byrne Bros., Santa Cruz.....\$11,998
Scott Co., Oakland.....12,200
O'Mara & Stewart, S. F.....12,700
Carl T. Doell, Oakland.....12,651
F. W. Snook, San Francisco.....13,843
J. A. Fazio, Albany.....14,800
Sanitary Plbg. Co., Santa Cruz.....15,126

Roofing
W. J. Porter, San Jose.....\$4,575
Bush Roofing Co., San Jose.....5,176
Merced Clay Prod. Co., Merced.....5,707
C. L. Frost, Monterey.....5,898
Alta Roofing Co., San Francisco.....5,899
G. L. Tyler, Oakland.....6,924

Painting
J. F. Ecker, 915 E Lindsay St.,
Stockton.....\$ 4,900
J. J. Burdon & Son, Richmond.....4,950
Alec Tebitdidir, Santa Cruz.....5,554
Patterson Bros., Berkeley.....7,250
Raphael Co., San Francisco.....1,971
M. L. Beckman, Santa Cruz.....8,384
G. A. Atwater, Piedmont.....12,432

Lathing and Plastering
Vincent Fatta, 5558 Claremont
Ave., Oakland.....\$15,492
W. A. Gould, Mt. View.....15,550
Chas. and J. Terranova, S. F.....15,659
Leonard Bosch, S. F.....16,000
Sam Greenbach, S. F.....16,350
P. H. Donnelly, Oakland.....16,828
San Cincamo, Santa Cruz.....16,873
Francis O'Reilly, S. F.....17,359
A. Kewlow, S. F.....17,494
McGruer & Co., S. F.....18,150
J. F. Smith, S. F.....18,449
Perry Bros., Stockton.....19,204
Robert Orr, Watsonville.....26,873

Glass and Glazing
Tyre Bros., 666 Townsend St.,
San Francisco.....\$1,085
Santa Cruz Glass Co., Santa Cruz.....1,130
W. P. Fuller Co., S. F.....1,181
East Bay Glass Co., Oakland.....1,203
Cobleclidic-Kilbe Glass Co. Oak-
land.....1,325

Architectural Metal
Pacific Iron Works, 1155 57th St.,
Oakland.....\$2,945
Artistic Metal Works, S. F.....3,250
Fair Mfg. Co., S. F.....3,540

Sheet Metal
Superior Metal Prod. Co., 4400
Market St., Oakland.....\$3,356
Morrison & Co., S. F.....4,530

Travertine Tile
Art Tile & Mantel Co., 221 Oak
St., S. F.....\$1,265
Rumay Tile Co., Oakland.....4,734
C. L. Frost, Monterey.....4,889

Hardware
Associated Hardware Co., 356 J
San Pablo Ave., Oakland.....\$2,294
Byrne Hardware Co., Santa Cruz.....2,591
Complete list of the alternates ob-
tainable from this office today.

Contracts Awarded.
ADDITIONS Cost, \$—
CENTERVILLE, Alameda Co., Cal.
Electric light fixtures and steel show-
er stalls in high school, additions
and extensions to heating plants.
Owner—Centerville High School Dist.
Architect—Elgie M. Clark, 310 Uni-
versity Ave., Palo Alto.

Steel Partitions for Shower Stalls
Price Bldg. Specialties Co., 683
Howard St., San Francisco.....\$1,530
Additions and Extensions to Heating
Plants
M. G. Moenning, 635 S 1st St.,
San Jose.....\$4,700

Lighting Fixtures
Newark Electric Co., Newark.....\$752

Contracts Awarded.
ADDITION Cost, \$10,000
MARTINEZ, Contra Costa Co., Cal.
Addition to high school and shop
building.

Owner—Alhambra Union High School
District, R. L. Boyer, clerk, Marti-
nez.
Architect—W. H. Weeks, 111 Sutter
St., San Francisco.
Contractor—Wallace Snelgrove, Rich-
mond.

Electrical Work—Stinchfield & Glass,
Martinez.

Following is a complete list of bids:
General Work
Wallace Snelgrove, Richmond.....\$13,417
O. K. Smith, Martinez.....18,988
Monson Bros., San Francisco.....20,988

Electrical Work
Stinchfield & Glass, Martinez.....\$1,132

Heating
T. J. Kennedy, Martinez.....\$1,530
R. J. Hershey, Martinez.....1,810

Plans Being Completed.
HEATING SYSTEM Cost, \$—
STOCKTON, San Joaquin Co., Calif.
French Camp.
Convert electric heating system into
steam heating system in six-room
school building.
Owner—French Camp Educational So-
ciety, French Camp Road, Stockton.

Architect—V. Galbraith, Elks Build-
ing, Stockton.
Bids will be advertised for about
August 3.

Contract Awarded.
ADDITION Cont. Price, \$5626
SUNNYVALE, Santa Clara Co., Cal.
Frame school addition (clinic and labo-
ratory).
Owner—Sunnyvale Elementary School
District, Fred T. Butler, clerk.
Architect—W. H. Weeks, Bank of Italy
Bldg., San Jose, and 111 Sutter
St., San Francisco.

Contractor—George D. Huston, Sun-
nyvale.

Lumber Contract Awarded.
ADDITION Cost, \$150,000
SAN JOSE, Santa Clara Co., Calif.
One-story reinforced concrete high
school addition.
Owner—San Jose School District.
Architect—W. H. Weeks, Hunter-Du-
lin Building, San Francisco; 173
Franklin St., Oakland, and Bank
of Italy Bldg., San Jose.
Contractor—E. Nommensen, 28 N 1st
St., San Jose.
Lumber—McElroy-Cheim Lbr. Co., 925
S 1st St., San Jose.
Other awards reported June 28.

Contract Awarded.
SHOP BLDG. Cost, \$7500
TRACY, San Joaquin Co., Cal.
Concrete and brick manual training building.
Owner—Tracy Grammar School District, Thos. Garner, Clerk.
Architect—W. J. Wright, Mail Bldg., Stockton.
Contractor—Samuel Eyre, Eyre Apts. Tracy.

Bids Opened.
ADDITIONS Cost, \$—
SACRAMENTO, Sacramento Co., Cal.
34th and W Sts.
Additions for school.
Owner—Sacramento City School District, Chas. C. Hughes, secretary, Board of Education.
Architect—Chas. F. Dean, 1406 California State Life Building, Sacramento.

Following is a complete list of bids:
Harry Gunther, 1931 D St., Sacramento.....\$5,937
W. L. Chatterton, Sacramento.....6,098
M. R. Petersen, Sacramento.....6,168
Azevedo & Sarmiento, Sacto.....6,400
W. C. Keating, Sacramento.....6,745
F. H. Betz, Sacramento.....7,190
C. J. Hopkinson, Sacramento.....7,325
Bids held under advisement.

FRESNO, Fresno Co., Cal.—Until August 14, 5 P. M., bids will be received by L. L. Smith, secretary, Board of Education, 2425 Fresno St., to furnish and install:

(a) 365 chairs, more or less, (for Roosevelt High School);
(b) 20, more or less, typewriters.
Bidders' surety bond or certified check 10% required with bid. Specifications obtainable from secretary.

HANFORD, Kings Co., Cal.—Trustees of Reece School District have levied a direct tax to finance additions and the purchase of equipment for the present Avenal School. The trustees have \$4600 available for the improvements.

Plans Being Figured—Bids Close Aug. 9th, 10 A. M.
SCHOOL Cost, \$35,000
SIERRA, SIERRA Co., Cal.
One-story reinforced concrete school (6 classrooms).
Owner—Sierraville School District.
Architect—Chester Cole, First National Bank Bldg., Chico.

Low Bidders.
SCHOOL Cost, \$20,000
YOUNTVILLE, Napa Co., Cal.
One-story three-classroom hollow tile Spanish type school.
Owner—Yountville School District.
Architect—Coffman, Sahlberg & Stafford (W. E. Coffman, architect), Forum Bldg., Sacramento and 3529 Emerson St., Oakland.

The bids of George W. Kopp, Oakland, and Gaubert Bros., 4735 Brookdale Ave., Oakland, were identical at \$20,840.

Complete list of bids will be published shortly.

Preparing Working Drawings.
SCHOOL Cost Approx. \$400,000
OAKLAND, Alameda Co., Cal. Fremont High School site.
Fireproof high school (height and type of construction not decided).
Owner—City of Oakland School District.
Architect—Chas. McCall, 1401 Granklin St., Oakland.

OAKLAND, Cal.—Until August 12, 4:05 P. M., bids will be received by John W. Edgemond, Secretary, Board of Education, 104 Administration Bldg., 1025 2nd Ave., to construct Burbank School retaining wall at northeast terminus of 64th Avenue Place,

northeast of Trenor St. Certified check 10% payable to Board of Education required with bid. Plans obtainable from Superintendent of Buildings at the above address on deposit of \$10, returnable.

Additional Sub-Contracts Awarded.
GYMNASIUM Cost, \$225,000
PALO ALTO, Santa Clara Co., Calif.
Stanford University Campus.
Steel frame and reinforced concrete gymnasium (300x250-ft.).
Owner—Stanford University, Palo Alto
Architect—John Bakewell and Arthur Brown Jr., 251 Kearny St., San Francisco.

Contractor—George Wagner, Inc., 151 South Park, San Francisco.
Sheet Metal—Fire Protection Products Co., 1101 16th St., San Francisco.
Mill Work—Pacific Mfg. Co., Santa Clara.
Other awards previously reported.

Contract Awarded.
SHOP BLDG. Cost, \$6059
ALTURAS, Modoc Co., Cal.
Concrete, frame and stucco farm shop building.
Owner—Modoc Union High School District, Mrs. Electa Fogerty, clerk.
Architect—Ralph D. Taylor, 11 Bell Bldg., Alturas.

Contractor—S. Severson, Alturas.
Other bids were: J. A. Nylander, \$5 318; Keene and Ballard, \$6395. Building is to be 40x81-ft. with a 12x30-ft. wing. The shop for wood working, sheet metal work and farm mechanics will occupy a space 39x56. Laboratory and lecture room 23½x32, milk testing room 5½x6½.

Contract Awarded.
KINDERGARTEN Cost, \$12,000
SAN FRANCISCO, Carolina St. and Southern Heights.
One-story and basement frame kindergarten.
Owner—California Synodical Society of Home Missions, 933 De Haro St.
Architect—Julia Morgan, 1135 Merchants Exchange Bldg.
Contractor—A. B. Allen, Palo Alto.

MERCED, Merced Co., Calif.—Until August 7, 5 P. M., bids will be received by Dr. N. S. Peck, clerk, Merced Union High School District, to extend present Livingston municipal water supply to serve the Livingston High School property. Certified check 10% payable to clerk required with bid. Plans obtainable from W. E. Bedesen, engineer, Shaffer Bldg., Merced.

Contract Awarded.
ADDITIONS Cost, \$9847
MORGAN HILL, Santa Clara Co. Cal.
Classroom additions to present school Owner—Live Oak School District.
Architect—W. H. Weeks, 111 Sutter St., San Francisco.
Contractor—Henry DuCody, Morgan Hill.

Complete list of bids follows:
Henry DuCody, Morgan Hill.....\$ 9,847
The Minton Co., Mt. View.....10,062
Geo. Woods, Gilroy.....10,437
J. C. Thorp, San Jose.....10,540
C. N. Swenson, San Jose.....10,924

Bids Opened.
SHOP BUILDING Cost, —
TRACY, San Joaquin Co., Cal.
Concrete and brick manual training building.

Owner—Tracy Grammar School District, Thos. Garner, clerk.
Architect—W. J. Wright, Mail Bldg., Stockton.

Following is a complete list of bids received, all being taken under advisement:

Prop. A—According to plans and specifications.

Prop. B—Omit exterior cement plaster (stucco) (deduct).

Prop. C—Omit shelving from tool room (deduct).

Prop. D—If spray painting is omitted from exterior walls and ceilings (deduct).

Prop. E—Total cost omitting work as specified in Props. B, C, D.

Sam Eyre, Eyre Apartments, Tracy Calif., (a) \$7599; (b) \$365; (c) \$90; (d) \$280; (e) \$6864.

R. D. Toothacre, (a) \$7788; (b) \$410; (c) \$25; (d) \$286.50; (e) \$7067.35.

J. R. Leighton, (a) \$7793; (b) \$445; (c) \$63; (d) \$196; (e) \$7084.

W. J. Scott, (a) \$7320; (b) \$450; (c) \$110; (d) \$300; (e) \$6950.

Ecker & Stegmiller, (a) \$7850; (b) \$445; (c) \$100; (d) \$279.60; (e) \$7025.44.

John Hackman, (a) \$7880; (b) \$400; (c) \$400; (d) \$6980.

Frank P. Guyon, (a) \$7898; (b) \$198; (c) \$75; (d) \$279.60; (e) \$7345.40.

C. E. Toteen, (a) \$8028; (b) \$475; (c) \$100; (d) \$200; (e) \$7253.

Liscom & Salfield (a) \$3163; (b) \$400 (c) \$73.50; (d) \$279.60; (e) \$7410.

Geo. H. Murphy, (a) \$8241.90; (b) \$300; (c) \$80; (d) \$500; (e) \$7361.90.

J. B. Wolf, (a) \$8584.15; (b) \$400; (c) \$135.50; (d) \$196; (e) \$7852.65.

L. Ubells, (a) \$8625; (b) \$400; (c) \$100; (d) \$250; (e) \$7875.

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Bids Opened—Held Under Advertisment ADDITIONS Cost, \$—
CENTERVILLE, Alameda Co., Cal.
 Electric light fixtures and steel shower stalls in high school, additions and extensions to heating plants.
 Owner—Centerville High School Dist.
 Architect—Birge M. Clark, 810 University Ave., Palo Alto.
Steel Partitions for Shower Stalls
 Price Bldg. Specialties Co., 683 Howard St., San Francisco, \$1530.
 Albattross Steel Equip. Co., 557 Market St., San Francisco, \$1577.
 Dwan & Co., 534 6th St., San Francisco, \$1652.
 C. J. Hillard Co., Inc., 19th and Minnesota Sts., San Francisco, \$3395.
Additions and Extensions to Heating Plants

M. G. Moenning, 635 S 1st St., San Jose, \$ 8,700
 F. J. Edwards, 2401 9th Ave., Oakland, 9,770
 Schreiber Bros., 2945 Elmwood, Oakland, 10,277
 San Jose Heating & Ventilating Co., San Jose, 10,283
 O'Mara & Stewart, 218 Clara St., San Francisco, 10,564
 W. H. Picard, 5656 College Ave., Oakland, 10,620
 Pacific Heating and Ventilating Co., 354 Hobart St., Oakland, 10,750
 Geo. C. Bell, 1826 E 15th St., Oakland, 11,190
 Knittle Bros., 224 5th St., S. F., 13,637
Lighting Fixtures
 Newark Electric Co., Newark, \$752
 Roberts Mfg. Co., 663 Mission St., San Francisco, 774
 Thos. Day & Co., 51 Shipley Street San Francisco, 798

July 26, 1930
Plans Being Figured—Bids Close
 August 7, 2:30 P. M.
GARAGE Cost, \$—
 GILROY, Santa Clara Co., Cal.
 Erect school bus garage.
 Owner—Gilroy High School District,
 E. E. Eustice, Clerk.
 Architect—W. H. Weeks, 111 Sutter St., San Francisco, and Bank of Italy Bldg., San Jose.
 Certified check 5% payable to clerk of district required with bid. Plans on file in office of president of board and obtainable from architect.

Plans Being Figured—Bids Close
 August 8, 8 P. M.
SCHOOL BLDGS. Cost, \$—
 McFARLAND, Kern Co., Cal.
 First unit of primary building and improvements to present buildings.
 Owner—McFarland Union Grammar School District, H. J. Hendry, Clerk.
 Architect—Edwin J. Symmes, Habersfelde Bldg., Bakersfield.
 Certified check or bidder's bond of 10% payable to clerk required with bid. Plans obtainable from architect on deposit of \$10, returnable.

General Contract Awarded.
GYMNASIUM Cost, \$—
 TURLOCK, Stanislaus Co., Cal.
 Completion of school gymnasium.
 Owner—Turlock Union High School District, A. G. Crowell, clerk.
 Architect—W. H. Weeks, 111 Sutter St., San Francisco.
General Contract—Nell and Wirtner, Turlock, \$11,248.
 C. A. Hillberg, Turlock, only other bidder on general contract at \$11,340.
 Heating bids taken under advisement, due to various types of installation. Bids were:
 Geo. C. Bell, Oakland, \$3,075
 Murray & Co., San Francisco, 3,323
 Fraser Furnace Co., Stockton, 3,403
 E. N. Wolfe, Turlock, 3,600

FIREBAUGH, Fresno Co., Calif.—
 Firebaugh Elementary School District will levy direct tax to finance erection of a \$5000 classroom addition to the present school.

Plans Being Figured—Bids Close
 August 7, 2:30 P. M.
ALTERATIONS Cost, \$—
 GILROY, Santa Clara Co., Cal. West Section of City.
 Alterations and additions to grammar school.
 Owner—Gilroy School District.
 Architect—W. H. Weeks, 111 Sutter St., San Francisco, and Bank of Italy Bldg., San Jose.
 Certified check 5% payable to H. E. Robinson, president of the board of trustees of district required with bid. Plans on file in office of president of board and obtainable from architect.

Sub-Contracts Awarded.
SCHOOL S. S.
 BEIKELEY, Alameda Co., Cal. Bancroft Way.
 Two 1-story frame temporary schools (5 classrooms, science and drawing room).
 Owner—Berkeley Board of Education.
 Architect—Hardman & Russ, Berkeley Bank Bldg., Berkeley.
 Contractor—Charles McCullough, 1634 Berkeley Way, Berkeley.
Lumber—Tilden Lumber Co., foot of University Ave., Berkeley.
Mill Work—Oakland Planing Mills, 2nd and Washington Sts., Oakland.
Roofing—H. C. Brown Roofing Co., 3267 San Pablo Ave., Oakland.
Plumbing—Coveney & Ehret, 1605 Bonita, Berkeley.
Painting—Wm. McPherson, 5614 Miles, Oakland.
Celotex—Contra Costa Bldg. Materials Co., 808 Gilman St., Berkeley.
Heating—Pacific Heating & Ventilating Co., 354 Hobart St., Oakland.
Wiring—H. & H. Electric Co., 2734 Army St., San Francisco.
Hardware—Sunset Hardware Co., 400 High St., Oakland.

Additional Sub-Contracts Awarded.
SCHOOL Cost, 1st unit, \$700,000
 SAN FRANCISCO. Aptos and West-gates Aves.
 Class A Aptos Junior High School (accommodate approx. 1200 students)
 Owner—City and County of San Francisco.
 Architect—Shea & Shea, 454 Montgomery St., San Francisco
 Contractor—MacDonald & Kahn, Financial Center Bldg., San Francisco.
Blow Pipe—Relss Premier Pipe Co., 546 Third St., San Francisco.
Mill Work—Anderson Bros. Planing Mill Co., Quint and Custer Sts., San Francisco.
Painting—D. Zelinsky & Sons, 165 Grove St., San Francisco.

Marble—Elsele & Dondoro Marble Co., 2895 3rd St., San Francisco.
Vault Doors—Hermann Safe Co., Howard and Main Sts., San Francisco.
Rolling Doors and Partitions—Chas. Christensen Co., 557 Market St., San Francisco.
Terrazzo—Henry Gervais Tile & Terrazzo Co., 1727 Mission St., San Francisco.
Linoleum—W. & J. Sloane Co., 224 Sutter St., San Francisco.
Steel Sash—Truscen Steel Co., Call Bldg., San Francisco.
Glass—W. P. Fuller & Co., 301 Mission St., San Francisco.

General Contract Awarded—Heating Bids Rejected.
ADDITION Cost, \$—
 PACIFIC GROVE, Monterey Co., Cal. Seven-classroom and auditorium brick addition to high school.
 Owner—Pacific Grove High School District.
 Architect—W. H. Weeks, Hunter-Du-lln Bldg., San Francisco; 1736 Franklin St., Oakland, and Bank of Italy Bldg., San Jose.
General Contract—J. J. Grodem & Co., 1028 San Antonio Ave., Alameda, on proposition (b) general contract \$30,000; (d) special fixtures, \$5090 and (e) hardwood flooring, 500.
Electric Work—Chas. A. Langlais, 472 Tehama St., San Francisco, \$2524 (this contract has not been signed, but will be after slight revisions in the specifications).
 Heating bids were rejected and new bids will be asked from revised plans.

Completing Plans.
SCHOOL Cost, \$—
 ELK CREEK, Glenn Co., Cal.
 One-story frame and stucco grammar school (3 classrooms).
 Owner—Elk Creek Grammar School District.
 Architect—O. A. Delchman, 111 Sutter St., San Francisco.

BANKS, STORES & OFFICES

OAKLAND, Calif—Strehlow and La Voe, 600 Central Ave., Alameda, at \$2240 awarded contract by City Port Commission to erect office addition at Hangar No. 3, Municipal Airport.

Contract Awarded.
LOFT Cost, \$10,000
 SAN FRANCISCO. S Harrison St E Fifth Street.
 One-story and mezzanine floor concrete loft.
 Owner—Hilbar Company.
 Architect—Edward A. Eames, 353 Sacramento St., San Francisco.
 Contractor—Burrett & Hulp, 918 Harrison St., San Francisco.

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Plans Being Figured — Blds Close August 4
STORE, ETC. Cost, \$85,000
LONG BEACH, Los Angeles Co., Cal.
 Two-story steel frame and concrete store and offices.
 Owner—Bank of Italy.
 Architect—H. A. Minton, Bank of Italy Bldg., San Francisco.

Plans Being Prepared.
ALTERATIONS Cost, Approx \$10,000
SAN JOSE, Santa Clara Co., Cal. No. 69 S-First Street.
 Alterations to present bank.
 Owner—Guarantee Building & Loan Association, Premises.
 Architect—Albert F. Roller, Crocker First National Bank Bldg., San Francisco.

Plans Being Figured.
KITCHEN EQUIP. Cost, \$—
SAN FRANCISCO, Harding Park Golf Course.
 Furnish and install kitchen equipment for dining pavilion.
 Owner—Park Commission.
 Plans by Owner.

Lumber Contract Awarded.
STORE Cost, \$425,000
SAN JOSE, Santa Clara Co., Cal. 1st and San Carlos Sts.
 Three-story class C reinforced concrete department store.
 Owner—Hale Bros., Fifth and Market Sts., San Francisco.
 Architect—Binder & Curtis, 35 W San Carlos St., San Jose and Swanson & Lane, Chicago, Ill.
 Contractor—Dinwiddie Const. Co., Crocker Bldg., San Francisco.
Lumber—McElroy-Chelm, San Jose.
 As previously reported, excavation awarded to Earl Heple, 494 Delmas St., San Jose; rock, sand and gravel to Central Supply Co., San Jose; Cement to Borchers Bros., 395 N 1st St., San Jose; plumbing to Wm. F. Serpa, 497 N 13th St., San Jose; electrical work to Butcher Elec. Co., 1020 Sherman St., San Jose; pile driving to Raymond Concrete Pile Co., Hunter-Dulin Bldg., San Francisco.

Contract Awarded.
STORE Cost, \$8000
SAN LEANDRO, Alameda Co., Cal. No. 245 Davis Street.
 One-story brick store.
 Owner—Goodschaux Estate.
 Architect—E. W. Cannon, 81 Echo Ave., Piedmont.
 Contractor—C. D. Vezey & Son, 3220 Sacramento St., Berkeley.

Plans Being Prepared.
OFFICES, ETC. Cost, \$825,000
SANTA MONICA, Los Angeles Co.
 Twelve-story Class A reinforced concrete offices, apartments and theatre.
 Owner—C. C. Tatum Bldg., Income Trust Fidelity Bldg., Los Angeles
 Architect—Eng. Dept. of Owner.

Plans Being Prepared.
OFFICE BLDG. Cost, \$1,500,000
LOS ANGELES, Cal. No. 1521 W. Seventh St., Second and Hill Sts., Tenth and Alvarado Sts.
 Twelve-story Class A reinforced concrete hotel (70x107 ft.); 12-story Class A office building (120x165 ft.); 12-story reinforced concrete apartment hotel.
 Owner—C. C. Tatum Bldg., Income Trust Fidelity Bldg., Los Angeles
 Architect—Eng. Dept. of Owner.
 Consulting Architect—Chas. F. Plummer, 1128 Story Bldg., Los Angeles.

Plans Being Completed.
STORE, ETC. Cost, \$17,000
NEWMAN, Stanislaus Co., Cal.
 One-story brick and hollow tile store

and warehouse (50x125 feet).
 Owner—A. M. Souza.
 Architect—Hardman & Russ, Berkeley Bank Bldg., Berkeley.
 Bids will be taken August 5 from a selected list of contractors only.

Contract To Be Awarded.
STORES Cost, \$5000
OAKLAND, Alameda Co., Cal. Location Withheld.
 One-story tile and brick stores.
 Owner—W. C. and Geo. K. Bates.
 Architect—Guy L. Brown, American Bank Bldg., Oakland.
 Contractor—Marshall & Co., 1727 Webster St., Oakland.

Contract Awarded.
ALTERATIONS Cost, \$6000
SAN FRANCISCO, No. 1041 Market Street.
 Alterations and additions to store.
 Owner—Isadore Weinstein.
 Architect—Hyman & Appleton, Foxcroft Bldg., San Francisco.
 Contractor—Barrett & Hilp, 918 Harrison St., San Francisco.

Sub-Contracts Awarded
ALTERATIONS Cost, \$—
SAN FRANCISCO, SW Post St. and Grant Avenue.
 Install modern soda fountain.
 Owner—The Owl Drug Co. (W. M. Berg, Manager).
 Plans by Edwin Du Val, Dalziel Bldg., Oakland.
 Contractor—Edwin Du Val, Dalziel Bldg., Oakland.
Mill Work—Lannom Bros., 326 Magnolia St., Oakland.
Plumbing—Scott Co., 243 Minna St., San Francisco.
Electric—Chas. A. Langlais, 472 Tehama St., San Francisco.

Sub-Contracts Awarded.
STORE Cost, \$150,000
OAKLAND, Alameda Co., Cal. 20th St. and Broadway.
 Three-story class A store.
 Owner—I. Magnin & Co., Grant Ave. and Geary St., San Francisco.
 Architect—Weeks and Day, Financial Center Bldg., San Francisco.
 Contractor—Chas. Heyer, Mills Bldg., San Francisco.
Piles—MacArthur Concrete Pile Co., 58 Sutter St., San Francisco.
Reinforcing Steel—Gunn—Carle, Ltd., 444 Market St., San Francisco.
Excavation—J. Catucci, 1212 18th Ave. Oakland.

Contract Awarded.
STORES Cost, \$—
LOS ANGELES, Cal. Broadway bet. Sixth and Seventh Sts.
 Two two-story and basement steel frame Class A stores.
 Owner—Wm. Fox.
 Architect—F. S. Tilden Norton and Frederick H. Wallis, associated, 1210 Financial Center Bldg., Los Angeles.

Ornamental Iron Contract Awarded
ALTERATIONS Cost, \$—
SANTA ROSA, Sonoma Co., Cal.
 Alterations to present one-story brick store.
 Owner—National Dollar Store, San Francisco.
 Architect—Bernard Joseph, 74 New Montgomery St., San Francisco.
Ornamental Iron—Patterson & Koster Iron Works, 250 13th St., San Francisco.

Sub-Bids Being Taken.
ALTERATIONS Cost, \$15,000
SAN FRANCISCO, 1164 Mission St.
 Alterations and additions to present building.

Owner and Builder—MacDonald and Kahn, Financial Center Bldg.
 Architect—George de Colmesnil, 1016 Nevada Bank Bldg.
 Lessee—Enterprise Electric Co., 1164 Mission St.

Plans Being Figured.
REMODELING Cost, \$—
SANTA CRUZ, Santa Cruz Co., Calif. Pacific and Locust Sts.
 Remodel bank.
 Owner—Farmers & Merchants National Bank, Santa Cruz.
 Architect—W. H. Weeks, Hunter-Dulin Bldg., San Francisco.

Plans Being Figured.
STORE, ETC. Cost, \$12,000
WILLOW GLEN, Santa Clara Co.
 Two-story reinforced concrete store and lodge building.
 Owner—E. W. Brown.
 Architect—Wolfe & Higgins, Realty Bldg., San Jose.
 About two weeks will be allowed for figuring plans.

To Be Done By Day's Work By Owner
MARKET Cost, \$—
SAN FRANCISCO, SW McAllister and Webster Sts.
 One-story reinforced concrete market
 Owner—Samuel Rhind and Irwin Stoff, 150 Post St., San Francisco
 Plans by Peter Fisher, % Owner.
Wrecking—Banks Wrecking Co., 1230 Howard St., San Francisco.
 Bids will be called for shortly.

Contract Awarded.
STORE Cost, \$7950
SAN FRANCISCO, W Seventh St. S Howard St.
 One-story and basement Class C store.
 Owner—Abby F. Bickel, El Cortez Hotel, San Francisco.
 Plans by R. N. Beckel, 12 Geary St., San Francisco.
 Contractor—Richard Harms, 1217 Stanyan St., San Francisco.

Contract Awarded.
OFFICES Cost, \$800,000
LOS ANGELES, Cal. No. 401-11 W. Fifth Street.
 Twelve-story Class A brick and concrete offices (86x119 ft.)
 Owner—Title Guarantee & Trust Co., Title Guarantee Bldg., Los Angeles.
 Architect—John and Donald Parkinson, Title Insurance Bldg., L. A.
 Contractor—P. J. Walker Co., Wm. Garland Bldg., Los Angeles.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$18,000
FRESNO, Fresno Co., Cal. No. 1212 Fulton Street.
 Alterations and additions to present building.
 Owner—Smart Shop, Premises.
 Architect—None.
 Contractor—E. J. Farr & Son, 1296 Linden St., Fresno.
Plastering—M. E. Summers, 1837 Merced St., Fresno.
Tile Work—Fresno Marble & Tile Co., 1511 O St., Fresno.
Wiring—Valley Electric Co., Power Co. Bldg., Fresno.
Glass and Glazing—Tyre Bros., 160 Fulton St., Fresno.
Plumbing—Fred High, 224 Belmont St., Fresno.
Millwork—Fresno Planing Mill Co., H and Monterey Sts., Fresno.
Painting and Decorating—S. C. Whitney, 2204 Harvey St., Fresno.
Builders Hardware—Fresno Hardware Co., 1247 Fulton St., Fresno.

Contract Awarded.
ALTERATIONS Cost, \$5000
SAN JOSE, Santa Clara Co., Cal.
 No. 79-81 S. First St.
 Alterations to Class C business building.
 Owner—Leon Jacobs et al, 275 S. 14th St., San Jose.
 Architect—None.
 Contractor—Wm. Cauldwell, 1241 Hedding St., San Jose.

Sub-Contracts Awarded.
ADDITIONS Cost, \$12,000
SAN FRANCISCO, S Harrison St. E Fourth Street.
 Two-story concrete addition to building.
 Owner—Milo Coffee Company
 Engineer & Builder—James Hjul, 182 Russ St., San Francisco.
 Wiring—American Electric Co., 1702 Washington St.
 Plumbing—Rodoni-Becker Co. 455 10th Street.

Preparing Working Drawings.
ANNEX Cost, \$2,000,000
SAN FRANCISCO, Bush Street near Montgomery St. (50x137-ft.).
 Twenty-two-story class A reinforced concrete annex to building.
 Owner—Mills Estate, Inc. (Curtis D. O'Sullivan, president), Mills Bldg.
 Architect—Louis P. Hobart, Crocker Building.
 Bids will be called for about Sept. 15th.

THEATRES

Bids To Be Taken in One Week.
THEATRE Cost, \$250,000
SAN FRANCISCO, Ocean Avenue bet. Fairfield and Lakewood Aves.
 Class A steel frame and reinforced conc. theatre and (6 or 8) stores; theatre seating 1800.
 Owner—Samuel Levin.
 Architect—Miller & Pfeueger, 580 Market Street.
 Structure will have a seating capacity of 1800 and will contain six or eight stores. It will have a frontage of 182 ft. on Ocean Ave.

Commissioned To Prepare Plans.
THEATRE Cost, \$200,000
SANTA MONICA, Los Angeles Co., Cal. Wilshire Blvd. and Euclid Avenue.
 Class A theatre (Greek type).
 Owner—Harry H. Belden and Ira A. Marshall.
 Architect—John M. Cooper Co., Inc., 321 Rives-Strong Bldg., L. A.
 Contractor—John M. Cooper Co., Inc.

Completing Plans.
THEATRE Cost, \$—
LOS ANGELES, Cal. Vermont Ave. near Hollywood Blvd.
 Masonry theatre (to seat 900)
 Owner—Jacob Sterns & Sons, Haas Bldg., Los Angeles.
 Architect—Morgan, Walls & Clements, Van Nuys Bldg., Los Angeles.

Working Drawings Being Prepared.
THEATRE Cost, \$200,000
MERCED, Merced Co., Cal. Seventh and J Sts. (150x150-ft.).
 Two-story class C steel frame and reinforced concrete theatre, stores and office building (theatre to seat 1700).
 Owner—Golden State Theatres, Inc., 983 Market St., San Francisco.
 Architect—Reid Bros., 105 Montgomery St., San Francisco.
 It is planned to start construction about Sept. 1.

WHARVES AND DOCKS

SACRAMENTO, Cal.—Until August 5, 3 P. M., under Order No. 2217, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver 8,500 linear feet of piling. Specifications obtainable from above office.

LAKEPORT, Lake Co., Cal.—Until August 4, 8 P. M., bids will be received by Fred L. Coles, city clerk, to construct one 20-ft. by 30-ft. large. Certified check or bond of 50% of bid required. Specifications and further information obtainable from city engineer.

LAKEPORT, Lake Co., Cal.—Until August 4, 3 P. M., bids will be received by Fred L. Coles, city clerk, to construct steel and concrete wharf at foot of Third street. Certified check or bond for 50% required with bid. Plans obtainable from city engineer.

Sub-Contracts Awarded.
PIERS, R.T.C. Cost, \$40,526
ALAMEDA, Alameda Co., Cal. Alameda Airport.
 Construct piers and bulkhead for Yacht Harbor.
 Owner—Alameda Airport, Inc.
 Engineer—Private Plans.
 Contractor—Duncanson & Harrelson, Crocker Bldg., San Francisco.
Crescoted Lumber and Piling—Chas. R. McCormick Lumber Co., 215 Market St., San Francisco.
Green Lumber—Smith Lumber Co., Foot 18th Ave., Oakland.

OAKLAND, Calif.—Western Automatic Sprinkler Co., Inc., 114 Sansome St., San Francisco, at \$22,810 awarded contract by City Port Commission to furnish and install complete automatic sprinkler system, fire hose piping and domestic water piping in Transit Shed No. 1, Brooklyn Basin, foot of 9th Ave.

Plans Being Prepared.
PIERS Cost, \$—
MONTEREY, Monterey Co., Cal.
 "Finger" piers off breakwater.
 Owner—City of Monterey, R. M. Dorton, city manager.
 Engineer—Francis B. Smith, 53 Sutter St., San Francisco.

Plans will provide for the construction of finger piers off the breakwater and for use of breakwater to carry sewer line out into the bay.

MISCELLANEOUS CONSTRUCTION

Geo. Koster, 2355 Leavenworth St., San Francisco, is in the market for a water cooling system to be installed at Calistoga, Napa County. System would have a capacity of 25,000 gallons per day. Natural temperature 180 deg. It is proposed to reduce to natural water temperature. All communications must be made by mail to Mr. Koster at above address.

Plans Being Completed—Contract Awarded.
MAUSOLEUM Cost, \$75,000
WILLOWS, Glenn Co., Cal.
 Reinforced concrete mausoleum with marble and bronze interior.
 Owner—North American Mausoleum Co. (Ray L. Johnson, 3701 H St., Sacramento, in charge).
 Architect—Jens C. Petersen, 812 26th St., Sacramento.
 Contractor—McGillivray, Folsom Blvd. and 65th St., Sacramento.

Contract Awarded.
IMPROVEMENTS Cost, \$11,587
BAKERSFIELD, Kern Co., Cal.
 Improvements at Kern County Fair Grounds.
 Owner—County of Kern, F. E. Smith, county clerk, Bakersfield.
 Architect—Edwin J. Symmes, Habersfeide Bldg., Bakersfield.
 Contractor—G. A. Graham, 1927 A St., Bakersfield.

Project involves concrete flooring, grandstand arrangements, erection of rest rooms, gas and water lines.

Complete list of bids follows:
 G. A. Graham \$18,587
 Currie & Duglar, Bakersfield 19,452
 Clark Gramling, Bakersfield 19,769
 Moon and Moon, Bakersfield 19,850
 F. L. Dribble, Bakersfield 21,892
 Opperman & Hullett, Bakersfield 23,200

SAN JOSE, Santa Clara Co., Cal.—Until August 4, 8 P. M., bids will be received by C. B. Goodwin, city manager, to construct asphalt concrete tennis courts in south side of Home St. between Delmas and Willis Aves. Certified check 10% payable to city required with bid. Spec. on file in office of J. J. Lynch, city clerk, and Wm. Popp, city engineer.

TRACY, San Joaquin Co., Calif.—C. B. Whitman, Byron, has started construction of a concrete swimming pool, 45 by 120-ft., with graduated depth of from 3 to 14 ft., with dressing rooms, shower rooms and miscellaneous structures. Will have capacity of 200,000 gals. of water, approximately 5,000 gals. being required per day for operation. The cost is estimated at \$20,000.

Plans Completed—Contracts Awarded.
MEMORIAL BLDG. Cost, \$—
SILVER LAKE, 100 miles north of Stockton.
 One-story granite museum memorial building (four wings, open air court 68 feet square).

Owner—Elmer Reynolds.
 Architect—Jos. Losekann, 931 N. Eldorado St., Stockton.
Lumber—J. A. Allen, 325 E. Market St., Stockton.
Granite and Brick Work—Mr. Riverie Jackson.

A portion of the work has been started and as soon as further funds have been raised to finance same, construction will be finished.

Working Drawings Being Prepared.
ARENA Cost, \$—
SACRAMENTO, Sacramento Co., Cal. L St. and Alhambra Blvd.
 Ice skating and sports arena.
 Owner—Sacramento Ice Hockey Club.
 Architect—Starks & Flanders, Forum Bldg., Sacramento.

The structure will contain facilities for ice hockey, boxing, wrestling, swimming and other athletic events. The ice hockey court is planned to have a seating capacity of 6,000, which may be enlarged to accommodate 2,500 more people in bleachers in the upper promenades. When the ice area is covered over for boxing and wrestling matches, a crowd of 10,500 may be seated.

A large natorium also is to be part of the project. There will be a swimming pool, 60x180 ft. in size, for adults and another pool, 60x40 ft., in area, for children. The children also will be provided outdoor gardens with sandy beaches.

VALLEJO, Solano Co., Cal.—Bureau of Yards and Docks, Navy Department, Washington, D. C., is preparing plans for proposed seawall at Mare Island Navy Yard. Funds to finance will be provided from the \$1,106,000 public improvement bill.

(Continued on Page 24)

Engineering News Section

BRIDGES

EUREKA, Humboldt Co., Cal.—Until Aug. 12, 2 P. M., bids will be received by Fred M. Kay, County Clerk, to construct wooden bridge across North Fork of Mad River at Riverside in Road District No. 3. Certified check 5% required with bid. Plans obtainable from County Surveyor Frank Kelly.

REDDING, Shasta Co., Cal.—J. P. Brennan, Redding, at \$372 awarded contract by county supervisors to construct two wooden bridges on road between Keswick and Iron Mountain; wood and concrete construction, one over Spring Creek 1/4 mile east of site of former Keswick smelter site and another over Keswick Creek, 1/4 mile north of Keswick. Other bids: Rolla Arbuckle, Anderson, \$3890; R. B. McKenzie, Gerber \$4100.

SANTA BARBARA COUNTY, Cal.—Following bids received July 30 by State Highway Commission to construct reinforced conc. girder bridge over Nojoqui Creek, 7 1/2 miles south of Zaca, composed of four 42-ft. 6-inch spans on concrete bents and an abutment:
Silveria & Robins, Ventura.....\$20,152
Geo. J. Ulrich Const. Co., Mo-desto.....23,238
Obergs Bros., Los Angeles.....24,326
Bids held under advisement.

RIVERSIDE, Riverside Co., Calif.—M. H. Slocum, 2064 Dudley St., Pasadena, submitted low bid to county supervisors July 23 at \$20,538 (bidding on steel bridge) to construct highway bridge over San Jacinto river, involving the following approximate quantities:

Steel Bridge—Structural steel, 197,730 lbs.; reinforcing steel, 28,870 lbs.; class A concrete, 272 cu. yds. embankment approaches, 13,400 cu. yds.; surfacing, 1690 cu. yds.

Alternate Plan, Creosoted Pile Bridge

—Douglas fir creosoted piles, 2220 lin. feet; Douglas fir selected common stringers, 35,640 ft. B. M.; Douglas fir selected common struc., 38,593 ft. B. M.; select all-heart struc. redwood, 6108 ft. B. M.; embankment approaches, 13,400 cu. yds.; surfacing, 1690 cu. yds.

The bids follow: M. H. Slocum, (1) steel bridge, \$20,538; (2) alternate plan \$13,015; Robt. Dawson, (1) \$20,879; (2) \$11,015; W. M. Ledbetter, (1) \$20,950, (2) \$11,850; General Const. Co., (1) \$21,050, (2) \$15,235; E. G. Perham, (1) \$23,800, (2) \$12,250. Bids were taken under advisement until August 4.

CHICO, Butte Co., Cal.—Until August 19, bids will be received by Harry H. Hume, city clerk, to widen Main Street bridge: estimated cost \$5000. Reconstruction will provide a bridge 19 ft. wider than the present structure, giving a total width of 44 ft. Six feet of sidewalk will be provided on the west side of the bridge. Plans on file in office of city clerk and obtainable from Martin C. Polk, city engineer.

LOS GATOS, Santa Clara Co., Cal.—A. Contardo, Los Gatos, at \$685.50 awarded contract by city trustees to construct culvert in New York Ave.

TULARE COUNTY, Calif.—W. A. Bechtel Co., 206 Sansome Street, San Francisco, awarded contract by the U. S. Bureau of Public Roads, San Francisco, at \$86,396.00 to construct Lodgepole, Clover Creek and Silliman Creek bridges and approaches between Stas. 223 plus 50 and E 270 plus 67 on Sections C2 and D1 of the General Highway, Route No. 1, Sequoia National Park, involving:

- (1) lump sum, clearing;
- (2) 10,700 cu. yds. excav. unclass.;
- (3) 1030 cu. yds. struc. excav.;
- (4) 3000 sta. yds. overhaul;
- (5) lump sum, finishing earth graded road;
- (6) 770 cu. yds. class A concrete;
- (7) 58,850 lbs. reinf. steel;
- (8) 1532 cu. yds. cem. rubble masonry;
- (9) 30 ft. 18-in. corr. metal pipe in place;
- (10) 210 sq. yds. arch rip facing;
- (11) 85 ft. curb stones;
- (12) 615 sq. yds. membrane waterproofing;
- (13) 4000 cu. yds. selected material for backfill;
- (14) 6000 cu. yds. miles hauling selected materials.

The total bids were:

- (A) W. A. Bechtel Co., \$86,396.
- (B) Dan G. Munro, \$102,956.75.
- (C) Schuler & McDonald, \$126,924.
- (D) Engineer's estimate, \$88,850.25.

The unit bids were:

	(A)	(B)	(C)	(D)
(1)	\$200.00	\$ 250.00	\$ 500.00	\$100.00
(2) ..	1.35	1.30	3.00	1.20
(3) ..	3.00	5.00	4.50	4.90
(4) ..	.05	.04	.05	.03
(5) ..	300.00	1000.00	1100.00	\$50.00
(6) ..	35.00	38.00	35.00	33.00
(7) ..	.07	.085	.08	.08
(8) ..	17.00	22.50	26.00	18.00
(9) ..	2.50	2.25	2.50	2.50
(10) ..	30.00	32.00	35.00	30.60
(11) ..	1.50	2.00	2.50	2.00
(12) ..	1.60	3.00	2.10	.75
(13) ..	.50	1.00	1.00	.75
(14) ..	.30	.30	.25	.50

EUREKA, Humboldt Co., Cal.—Until August 12, 2 P. M., bids will be received by Fred M. Kay, county clerk to construct wooden bridge across Mosley Slough in Road Dist. No. 3. Certified check 10% required with bid. Plans obtainable from county surveyor and on file in office of clerk.

SAN FRANCISCO.—The Hoover-Young San Francisco Bay Bridge Commission has selected the route from Rincon Hill in San Francisco to Goat Island, then by span and trestle to the Key Route fill and along the fill to Yerba Buena Ave. in Emeryville, terminating at San Pablo Ave. in Oakland. The cost of construction is estimated at \$72,000,000. It will require from four to five years to complete the project. Commencing next Monday in the offices of the State Railroad Commission public hearings will be held in connection with the project.

NAPA, Napa Co., Cal.—As previously reported, bids will be received by James A. Daly, county clerk, August 12, 10 A. M., to construct arch extension to Highway bridge near the Myrtle Dale Hot Springs. Project involves:

- (1) 80 cu. yds. struc. excav. unclass.;
- (2) 300 cu. yds. fill approach;
- (3) 142 cu. yds. class A concrete;
- (4) 10,200 lbs. reinforcing steel.

Plans obtainable from County Engineer E. P. Ball at Napa.

REDWOOD CITY, San Mateo Co., Cal.—As previously reported, bids will be received by E. E. Myers, city clerk, August 11, 8 P. M., to construct six bridges in various sections of the city, involving:

- (1) 550 cu. yds. concrete;
- (2) 59,100 lbs. reinf. steel;
- (3) 1,890 cu. yds. excavation;
- (4) 822 cu. yds. filling and backfill;
- (5) 1,405 sq. ft. asphalt. conc. pave.;
- (6) 315 lin. ft. 2-in. galv. iron railing;
- (7) 10 catchbasins;
- (8) 50 lin. ft. 6-in. black dipped steel pipe;
- (9) 50 lin. ft. 8-in. do.;
- (10) 32 lin. ft. 12-in. galv. corr. steel pipe.

Estimated cost \$15,000. Certified check 10%, payable to city required with bid. Plans obtainable from C. L. Dimmitt, city engineer.

LYON COUNTY, Nevada.—As previously reported, bids will be received August 6, 2:30 P. M., by State Highway Commission, Carson City, to construct reinforced concrete bridge, including approaches, over East Walker River at a point 7 1/2 miles south of Yerington. Project involves: 53 cu. yds. excav. unclass.; 300 cu. yds. excav. unclass.; 300 cu. yds. struc. excav.; 40 cu. yds. load, haul and spread gravel; 225 cu. yds. class A concrete; 27,600 lbs. reinf. steel; 750 lbs. bearing plates and rollers; 4 monuments; 2 posts for federal aid markers. Crushed rock or gravel for surfacing roadway furnished by the state in stockpile to the right of station 394 plus 50. Plans obtainable from S. C. Durkee, state highway engineer, Carson City, on deposit of \$15, of which \$10 is returnable. Plans on file in office of U. S. Bureau of Public Roads, 461 Market St., San Francisco. Certified check 5% required with bid.

REDWOOD CITY, San Mateo Co., Cal.—Bids to construct reinforced concrete culverts or bridges in various sections of the city will be opened by the city council August 11, 9 A. M. It was previously reported these bids would be opened August 11, 8 P. M. Quantities involved in the project were published in our issue of July 26.

DREDGING, HARBOR WORKS & EXCAVATIONS

SACRAMENTO, Cal.—City Manager James S. Dean announces that the necessity for holding next year's budget to absolutely essential expenditures will prevent the inclusion of an appropriation for the development of a yacht harbor in the Sacramento River. He suggested that persons interested in having a harbor developed might form an organization and raise the money privately to carry out the project, which, it is estimated, would cost approximately \$50,000.

SACRAMENTO, Cal.—Until August 23, 3 P. M., under Circular Proposal No. 31-30, Specifications No. 2070, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, for dredging approximately 775,000 cubic yards of material in New York Slough. Specifications and further information obtainable from above office.

OAKLAND, Cal.—American Dredging Co., 255 California St., San Francisco, at \$23.21 cu. yd. submitted low bid to U. S. Engineer Office, San Francisco, for dredging in Oakland Harbor. Complete list of bids, all taken under advisement, follows:

American Dredging Co.	23.21
United Dredging Co.	27.88
San Francisco Bridge Co.	30.00
Hydraulic Dredging Co.	33.00

Estimate cost of government engineer with government plant and hired labor, 19.29 cu. yd.

LOS ANGELES, Cal.—Until August 26, 3 P. M., bids will be received by U. S. Engineer Office, 751 S. Figueroa St., for repairing revetment at Reservation Point in Los Angeles Harbor. Specifications obtainable from above.

ALAMEDA, Alameda Co., Cal.—See "Government Work and Supplies," this issue. Contemplated construction for proposed Alameda Air Base for Federal Government.

OAKLAND, Cal.—Until Aug. 4, 4:30 P. M., bids will be received by G. B. Hegardt, secretary, City Port Commission, 424 Oakland Bank Building, for levees for hydraulic fill, located at the west end of 14th St., involving 7,000 lin. ft. earthen dykes, in outer harbor area, approx. 5-ft. in height with a 3-ft. beam on natural slope.

Certified check 10% required with bid. Bond in full amount of the contract price required of successful bidder. Specifications obtainable from secretary on deposit of \$5, returnable.

IRRIGATION PROJECTS

PHOENIX, Ariz.—Verde River Irrigation & Power District, Security Bldg., Phoenix, has received from the Secretary of the Interior, approval of rights-of-way for the Verde project on 80,000 acres of the district lands. The project proposes to develop 85,000 H. P., with necessary canals, laterals, drains, etc. The principal structures planned are a reservoir of 950,000 acre feet at Camp Verde, a dam, at Horseshoe on the Verde River, to impose 240,000 acre feet, and various concrete lined canals and laterals.

STREET LIGHTING SYSTEMS

SANTA BARBARA, Cal.—Until August 7, 1:30 P. M., bids will be received by S. B. Taggart, city clerk, to improve West Cabrillo Blvd., bet. southwest line of State Street extended southeast and the southwest line of Castillo St. extended southeast involving installation of cast iron standards, with certain concrete foundations, lantern units, series transformers, splicing potheads, lamps, conduits, cables, wires, etc., under 1911 Act. Certified check or bond for 10% required with bid. Plans on file in office of clerk.

SANTA BARBARA, Cal.—Until 1:30 P. M., August 7, new bids will be received by the city council to construct lighting system in West Cabrillo Blvd., between State St. and Castillo St., involving cast iron standards, with all appurtenances; 1911 Act. E. B. Brown, city engineer. S. B. Taggart, city clerk. Previous bids rejected.

GLENDALE, Los Angeles Co., Cal.—Until August 19, 3 P. M., bids will be received by City Advisory Committee (Frank C. Ayers), 901 S. Brand Blvd., for equipment in connection with proposed lighting system in

Brand Blvd., involving 254 ornamental combination lighting standards; 608 lighting units. Of the lighting standards, 242 will be required to withstand a side stress of 2000 lbs. at a point 36 ft. above the sidewalk level, and 12 will be required to withstand a similar stress at a point 42 ft. above the sidewalk level. The standards are to be approx. 44 ft. in height above the sidewalk elevation. Bids are desired for the complete standard delivered on the job, and also separately for the pole alone to carry the weight and stress of trolley and other railroad wires, for the jacket alone covering such pole for ornamental lighting purposes; for the lighting unit alone; for the glassware; for the refractor or reflector; for auto or insulating transformer. The estimated cost of the complete system is between \$200,000 and \$250,000. The project was appointed by the city council to report a recommendation upon which the city council is to base its plans and specifications. Further information obtainable from above.

ALAMEDA, Alameda Co., Cal.—See "Government Work and Supplies," this issue. Contemplated construction for proposed Alameda Air Base for Federal Government.

REDWOOD CITY, San Mateo Co., Cal.—City council has started proceedings to install street lighting system in Main St. from Maple St. to El Camino Real, plans having been completed by C. L. Dimmitt, city engineer.

MACHINERY AND EQUIPMENT

GILROY, Santa Clara Co., Calif.—Until August 7, 2:30 P. M., bids will be received by E. E. Eustice, clerk, Gilroy High School District, to furnish and deliver one Reo Modified 2-Ton School Bus Chassis, and for one Barshaw & Falerio School Bus Body for said Reo Modified 2-Ton School Bus Chassis. Further information obtainable from clerk.

VALLEJO, Solano Co., Calif.—Elgin Co., at \$7500, less \$1610 allowance for old sweeper, awarded contract by city council to furnish and deliver a motor pick-up street sweeper. Western Road Machinery Co. only other bidder, offering an allowance of \$1500 on the old machine.

EUREKA, Humboldt Co., Cal.—Until August 12, 2 P. M., bids will be received by Fred M. Kay, county clerk to furnish and install certain laundry equipment for County Hospital. Newton Ackerman, architect, 102 W 4th St., Eureka. Certified check 10% required with bid. Specifications on file in the office of the county clerk.

CHINO, San Bernardino Co., Cal.—Until 6:30 P. M., August 8, bids will be received by Chino High School for furnishing a school bus body.

RAILROADS

LAS VEGAS, Nev.—Union Pacific Railway, according to reports, will be the only railway to construct and operate the proposed line to Boulder Dam site, due to its strategic position in Las Vegas. Bids, however, will probably be asked on a competitive basis. The line will be operated under government contract.

ALAMEDA, Alameda Co., Cal.—See "Government Work and Supplies," this issue. Contemplated construction for proposed Alameda Air Base for Federal Government.

LOS ANGELES, Cal.—Robt E. McKee, 125 Central Bldg., awarded contract by Santa Fe Railway for grade separation work on the railway company's right of way at Avenue 12 and 26 in Los Angeles, involving construction of overhead structures at these points with reinforced concrete abutments and retaining walls and steel bridge work. The piers of the company's bridge across the Los Angeles river will be raised.

NORTHERN CALIFORNIA—W. A. Lechtel Co., 206 Sansome St., San Francisco, and Utah Construction Co., Ogden, Utah, (with branch office in Helian Bldg., San Francisco), bidding jointly awarded contract of Western Pacific Railroad, Mills Bldg., San Francisco, to construct 111 miles of railroad from Keddie, Plumas County, to Bieber, Lassen County, this unit being the Western Pacific's portion of the joint line from Keddie to Klamath Falls, Ore., in connection with the Great Northern R. R. The cost of construction is approximately \$10,000,000. The project involves:

- 392 acres heavy, 394 acres medium clearing;
- 476 acres light, and 217 acres sagebrush;
- 1,264,354 cu. yds. solid rock excavation;
- 788,148 cu. yds. loose rock excavation;
- 779,903 cu. yds. common excavation;
- 256,626 cu. yds. loose rock borrow;
- 560,291 cu. yds. common borrow;
- 3,655,771 sta. yd. overhaul;
- 6500 ft. tunnels, 17x22 ft.;
- 5100 tons struct. steel (vland. and bridges);
- 215,000 ft. B. M. Douglas Fir;
- 3300 ft. piling, 1733 cu. yds. concr. (foot);
- 416,971 Douglas fir cross ties;
- 17,845 tons 85-lb. rail;
- 354,000 cu. yds. gravel or volcanic cinders, also steel and wooden tanks, sidings, line protection.

LOS ANGELES, Cal.—Bids will be asked shortly by county supervisors to furnish 1,200 r.r. ties for Flood Control Department; to be 6x8-in. by 8-ft. No. 1 incised and creosoted O. P. f.o.b. truck's plant of bidder at price per M. B. M.

LOS ANGELES, Cal.—Bids will be asked shortly by county supervisors to lay railway track and furnish and place rip-rap along west levee of Los Angeles river from Louise St. to 52nd St. near North Long Beach, involving: (a) 2,000 ft. r.r. track; (b) 12,500 tons rip-rap.

ROWENA, Oregon.—J. F. Shea Co., Henry Building, Portland, at \$130,000, awarded contract by Oregon-Navigation Railroad and Navigation Co. to construct tunnel in connection with changing route of main line about two

FIRE ALARM SYSTEMS

PHOENIX, Ariz.—Until 10 A. M. August 13, bids will be received by the city manager, Geo. H. Todd, for traffic signal apparatus. All apparatus to operate at 220 volts 60 cycle. Bidders to quote unit prices on articles mentioned under each item, f.o.b. city hall, Phoenix, Ariz.

Item No. 1.—Seventeen bracket type one-way traffic signals, complete with brackets, pile cables, conduits and other fittings, "no left turn" signs, etc., equal to Crouse Hinds Type T. S. V. 11-signal. With lenses lettered as directed. Dimensions of brackets and pole clamps, as later directed.

Item No. 2.—Five traffic signal timers equal in every respect to General Electric Co. T. S. M. 2 A-1-2. Certified check, 10%.

FIRE EQUIPMENT

BERKELEY, Alameda Co., Cal.—Fire Chief George Haggerty, in his annual report, just submitted to City Manager Hollis R. Thompson, recommends the purchase of an \$5 ft. aerial truck, new chief's auto, a 750 gal. pumper and reconditioning of apparatus which has been in service for the past 16 years.

RESERVOIRS AND DAMS

IONE, Amador Co., Calif.—George French, Jr., Cherokee Lane, Stockton, at \$14,300 awarded contract by State Department of Public Works, Division of Architecture, Sacramento, to construct reinforced concrete dam for Preston School of Industry near Ione; dam will measure 192 ft. at the crest and will involve approx. 600 cu. yds. of reinforced concrete.

LAKE CO., Cal.—Martin Judge, Jr., & Co., Crocker First National Bank Bldg., San Francisco, seeks authority of State Department of Public Works, Division of Water Rights, to appropriate 250 cu. ft. per second from the north fork of Cache Creek in Lake County, work involving: concrete dam, 160 ft. high, 600 ft. long on top with capacity of 150,000 ac. ft. Pipe line—235,000 lin. ft. 48-in. concrete pipe. Total estimated cost, \$3,000,000. Authorization is also sought for an appropriation of 175,000 ac. ft. per annum storage for irrigation of 50,000 acres of land in Yolo and Solano counties. Work involves the following: Storage Reservoir—To be located in Indian Valley. Construction of 90,000 lin. ft. of ditch to be 20-ft. wide on top, 8 ft. wide on bottom and with 4-ft. depth of water. Total estimated cost \$1,000,000.

PIPE LINES, WELLS, ETC.

SAN MATEO, San Mateo Co., Cal.—Until August 4, 8 P. M., bids will be received by E. W. Foster, city clerk, to construct sewer in Poplar Ave. bet. Delaware and Humboldt Sts. Certified check 10% required with bid. Plans on file in office of clerk.

STOCKTON, San Joaquin Co., Cal.—Pacific Gas and Electric Co. has authorized \$5429 expenditure to install gas mains in the Boggs Tract, involving 3372-ft. 4½-in. pipe.

OAKLAND, Cal.—Until Aug. 4, 4:30 P. M., bids will be received by G. B. Hagar, secretary, City Port Commission, 424 Oakland Bank Building, to furnish pontoon pipe, delivered Oakland Harbor Terminal:

23 pieces 20-in., 40-ft. long;
2 pieces 20-in., 48-ft. long.

Certified check 10% required with bid. Bond in full amount of the contract price required of successful bidder. Specifications obtainable from secretary on deposit of \$5, returnable.

SEWERS AND SEWAGE DISPOSAL PLANTS

OAKLAND, Calif.—City council has appropriated \$12,000 to finance a 600-ft. extension to the sanitary sewer at the foot of 5th Ave. Walter N. Frickstad is city engineer.

SAN FRANCISCO—Bureau of Engineering, Department of Public Works, completes plans to sewer Brussels St. bet. Mansell and Ward Sts., involving: 510 lin. ft. 8-in. V. C. P. sewer; 485 lin. ft. 12-in. do.; 28 x 6-in. Y or T branches; 23 12x6-in. do.; 7 brick manholes. Estimated cost, \$4,225.

LONG BEACH, Calif.—City council has deferred action on a storm drain system in District No. 8 for about 3 months. New plans, prepared by City Engineer Herbert Paterson, have reduced the estimated cost from \$800,000 to \$575,000, due to the participation of Signal Hill to the extent of \$150,000 and \$75,000 from the oil funds.

NEWPORT BEACH, Orange Co., Cal.—Currie Engineering Co., Anderson Bldg., San Bernardino, commissioned to prepare plans for proposed \$165,000 sewage disposal plant for city. Plant will serve a population of 10,000.

July 29, 1930

ALAMEDA, Alameda Co., Cal.—See "Government Work and Supplies," this issue Contemplated construction for proposed Alameda Air Base for Federal Government.

LOS ANGELES, Cal.—P. J. Ajmadi, 3028 Gilroy St., at \$72,200 submitted low bid to county supervisors to construct san. sewers in Blanchard St. (City Terrace Unit No. 2), involving 37,410 ft. 8-in. vit. main sewer, \$1; 1070 ft. do with concrete cradle, \$150; manholes, etc. . .

STOCKTON, San Joaquin Co., Cal.—E. A. Burns, 1215 North Baker St., Stockton, at \$1368.77 awarded contract by city council to construct sanitary sewer system consisting of main sewer, wye branches, manholes with automatic flush tanks in E Scott Avenue.

MADERA, Madera Co., Cal.—Andrew M. Jensen, consulting engineer, 65 Post St., San Francisco, commissioned by city trustees to prepare plans for sewer system extension for which bonds of \$20,000 have been voted to finance. The bonds are yet to be marketed.

SANTA CRUZ, Santa Cruz Co., Cal.—City council declares intention (460-C) to construct vitrified clay pipe main sanitary sewer with wye branches and brick manholes in Plateau Ave., bet. Woodrow Ave. and Columbia Street, 1911 Act. Hearing Aug. 18. S. A. Evans, city clerk. Roy Fowler, city engineer.

WATER WORKS

LAFAYETTE, Contra Costa Co., Cal.—Steps will be taken at once to organize the Lafayette Water District which proposes to tie-in with the East Bay Municipal Utility District for a water supply. Estimates of cost for a pipe line are now being prepared.

Geo. Koster, 2355 Leavenworth St., San Francisco, is in the market for a water cooling system to be installed at Calistoga, Napa County. System would have a capacity of 25,000 gallons per day. Natural temperature 150 deg. It is proposed to reduce to natural water temperature. All communications must be made by mail to Mr. Koster at above address.

SAN FRANCISCO—Dunham, Carrigan and Hayden Co., Kansas and Division Sts., awarded contract by Board of Supervisors, under Proposal No. 613, to furnish standard wrought steel pipe, galvanized with threads and couplings, random lengths; delivery L. O. B. Salada Beach, San Mateo County, as follows:

13,530 ft. 2 -in.	19.08
13,250 ft. 1½-in.	14.18
525 ft. 4 -in.	59.32
1,805 ft. 3 -in.	39.45
7,810 ft. 2½-in.	30.17

MERCED, Merced Co., Calif.—Until August 7, 8 P. M., bids will be received by Dr. N. S. Peck, clerk, Merced Union High School District, to extend present Livingston municipal water supply to serve the Livingston High School property. Certified check 10% payable to clerk required with bid. Plans obtainable from W. E. Bedesen, engineer, Shaffer Bldg., Merced.

WHITTIER, Los Angeles Co., Cal.—Until 7:30 P. M., Aug. 4, bids will be received by the city council for furnishing equipment and labor for trenching and backfilling 3000 ft. ditch suitable for installation of 30-in. water pipe line. Also alternate proposal for laying and caulking approximately 1,100 ft. class C cast iron pipe. Plans obtainable from M. R. Bowen, water superintendent. Certified check or bond, 10%. Mrs. Debbie E. Allen, city clerk.

BRAWLEY, Imperial Co., Calif.—Burns-McDonnell-Smith Eng. Corp., 422 Western Pacific Bldg., Los Angeles, has estimated the approximate cost of the proposed filtration plant for the municipal water system at \$65,000.

WHITTIER, Los Angeles Co., Cal.—Until 7:30 P. M., Aug. 4, bids will be received by the city council for furnishing at trench side approximately 1100 ft. 30-in. class C cast iron pipe. Also alternate bid for furnishing at trench side 30-in. high tensile cast iron pipe. For further particulars see M. R. Bowen, water superintendent. Certified check or bond 10%. Mrs. Debbie E. Allen, city clerk.

FULLERTON, Orange Co., Calif.—City Engineer C. M. Thorpe preparing estimates of cost for a booster pump and elevated tank for the N Cypress Ave. district.

PALMDALE, Los Angeles Co., Cal.—Until August 22, 5 P. M., bids will be received by Palmdale Irrigation District to furnish 8,000-ft. 14-gauge, 12-in. welded Toncan iron pipe with valves, etc. Specifications obtainable from H. P. Schoeller, engineer for district.

PALMDALE, Los Angeles Co., Cal.—Until August 22, 5 P. M., bids will be received by Palmdale Irrigation District, to furnish and install one 1,350-G. P. M. turbine pump, complete with motor; one 900-G. P. M. horizontal booster pump complete with motor. Specifications obtainable from H. P. Schoeller, engineer for district.

FRESNO, Fresno Co., Calif.—Until August 15, 2 P. M., bids will be received by D. M. Barnwell, county clerk to construct Water distributing system in Fresno County Water Works District No. 1. Project involves: 7000 ft. 4-in., 25,000 ft. 6-in. and 7000 ft. 8-in. pipe line. Bonds of \$55,000 voted to finance. Perry F. Brown, engineer, 512 Griffith - McKenzie Bldg., Fresno. Certified check 10% payable to Fresno County for use and benefit of Fresno County Waterworks District No. 1 or bidder's bond required with bid. Plans obtainable from engineer on deposit of \$5, returnable.

ONTARIO, San Bernardino Co., Cal.—Until August 4, 8 P. M., bids will be received by D. B. Wynne, city clerk, to furnish 10-in. welded steel pipe, 12-gauge and necessary fittings. Specifications obtainable from above.

PLAYGROUNDS & PARKS

SAN FRANCISCO—Tennis Club of San Francisco is seeking a site for a new clubhouse and tennis courts. The proposal to establish the club at the southwest corner of Laurel Hill Cemetery has been abandoned due to the

protests of property owners and the failure of the City Planning Commission to rezone the district to permit such construction.

MILL VALLEY, Marin Co., Calif.—Until August 18, 8 P. M., bids will be received by Francis P. Seitz, clerk, Mill Valley School District, to pave portion of the playground at the Old Mission School, specifically that part known as Utility Court. Specifications obtainable from the clerk.

SAN JOSE, Santa Clara Co., Calif.—W. L. Biebrach, president of the city council, has been authorized to select a committee of 15 citizens to make a recreational survey with the object of establishing a recreation department in the city government to develop a system of supervised playgrounds.

SAN JOSE, Santa Clara Co., Calif.—Until August 4, 8 P. M., bids will be received by C. B. Goodwin, city manager, to construct asphalt concrete tennis courts in south side of Home street, between Delmas and Willis Aves. Certified check 10% payable to city required with bid. Specifications on file in office of J. J. Lynch, city clerk, and Wm. Popp, city engineer.

STREETS AND HIGHWAYS

REDWOOD CITY, San Mateo Co., Calif.—City council rejects bid of W. A. Dontanville, Salinas, at \$4,493 (M-9) to improve Maple Street bet. Main Street and Dillers Addition, involving grading; 6-in. hydraulic cement concrete surface pavement; 3-in. broken stone base and 1-in. sand cushion; hydraulic cement concrete curbs; 4-inch hydraulic cement concrete sidewalks; two hydraulic cement concrete storm water inlets; cement concrete gutters. Bond Act 1915. Improvement Act 1911. New bids will be opened August 11, 8 P. M. Specifications obtainable from C. L. Dimmitt, city engineer.

PLUMAS COUNTY, Calif.—Until August 14, 2 P. M., bids will be received by C. H. Sweetser, district engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, to furnish and apply oil to 12,046 miles of Quincy-Beck with National Forest Highway, Plumas National Forest, involving:

- (a) 12,046 miles mixing oil treated crushed rock surfacing;
- (b) 181,500 gals. asphaltic oil, furnished and applied.

Specifications obtainable from engineer on deposit of \$15, returnable, checks for same to be made payable to Federal Reserve Bank of San Francisco.

MANHATTAN BEACH, Los Angeles Co., Calif.—Until Aug. 7, 8 P. M., bids will be received by M. J. Crandall, city clerk, to improve El Camino Real, between the north and south city limits, involving in the main 159,600 sq. ft. 4-in. asphalt conc. base with 2-in. National asphalt conc. surface; 137,000 cu. yds. excavation including shaping and removal of trees and stumps; curbs, walks, gutters. Work under A and I No. 1. Plans obtainable from engineer, L. C. Lull, 1127 W. Washington St., Los Angeles.

EUREKA, Humboldt Co., Calif.—County Supervisors petitioned to construct new road from McCann to Alderpoint, following the west bank of the Eel river. Preliminary estimates place the cost at \$22,500. Frank Kelly, county surveyor.

BERKELEY, Alameda Co., Calif.—City Engineer Harry L. Goodridge, preparing specifications for pathway

between Hilldale and Euclid Aves., at the Regal Road.

SALINAS, Monterey Co., Calif.—W. A. Dontanville, Salinas, at \$53,616.61 awarded contract by city council to widen California Ave. bet. El Camino Real and Alma St., involving curbs, gutters, walks; paving.

PLACER COUNTY, Calif.—Following bids received July 30 by State Highway Commission to grade and pave with Portland cement concrete 1.7 miles through Lincoln:

N. M. Ball, Porterville.....	\$62,253
Hannahan Co., San Francisco.....	64,807
C. W. Woods, Stockton.....	66,073
Mathews Const. Co., Sacto.....	66,205
Fredrickson and Watson Const. Co., Oakland.....	66,692
Clark & Henery, San Francisco.....	76,832

Bids held under advisement.

RICHMOND, Contra Costa Co., Calif.—Until August 11, 8 P. M., bids will be received by A. C. Faris, city clerk, (476) to improve Pullman Ave. bet. Cutting Blvd. and Panhandle Blvd., and Panhandle Blvd. bet. Pullman Ave. and Del Norte Place, and portions of Cutting Blvd., 45 th, 47th and Monterey Sts., involving grading; pave with 4-inch broken stone cushion with 3-course asphalt concrete pavement, consisting of 2-course base of 6-inch asphalt conc. and 2-in. asphalt conc. surface; cement concrete curbs with gully steel curb bars; cement concrete gutters, walks; corr. iron pipe inlets; corr. iron and cement concrete culverts. 1911 Act. Certified check 10% payable to city required with bid. Plans obtainable from E. A. Hoffman, city engineer.

SAN BERNARDINO CO., Calif.—Following bids received July 30 by State Highway Commission to grade and surface with oil treated crushed gravel or stone, 9.5 miles between 1½ miles southwest of Dunn and Cornish Valley:

H. W. Rohl Co., Los Angeles.....	\$187,325
Southwest Paving Co., L. A.....	188,937
C. U. Heuser Co., Glendale.....	210,307
New Mexico Const. Co., Albuquerque, New Mexico.....	210,877
Skeels & Graham, Roseville.....	213,918
Healy-Tibbitts Const. Co., San Francisco.....	276,203

Bids held under advisement.

MENDOCINO COUNTY, Calif.—Following bids received July 30 by State Highway Commission to grade and surface with untreated crushed gravel or stone and construct timber bridges on two miles between McDonald and Wendling:

E. C. Coates, Sacramento.....	\$5,289
Kennedy Bayless Const. Co., Biggs.....	97,573
W. C. Colley.....	105,351
Jr's-Knapp Co., Oakland.....	114,970
F. P. Holland, San Francisco.....	120,505
Fredrickson and Watson Const. Co., Oakland.....	124,062

Bids held under advisement.

SAN BERNARDINO COUNTY, Calif.—Gilmore Oil Co., 2423 East 28th Street, Los Angeles, at \$1.63 per bbl. submitted low bid to District Engineer, State Highway Commission, San Bernardino, to furnish and apply to shoulders heavy fuel oil on 3.43 miles between San Bernardino and Victorville.

REDWOOD CITY, San Mateo Co., Calif.—City council rejects bid of W. A. Dontanville, Salinas, at \$4,526 (M-9) to improve Chestnut St. bet. Heller and Stambaugh Sts., involving grading; 6-in. hydraulic cement concrete surface pavement; 3-inch broken stone base and 1-inch sand cushion; cement concrete curbs, gutters, sidewalks.

Bond Act 1915. Imp. Act 1911.

New bids will be opened August 11, 8 P. M. Specifications obtainable from C. L. Dimmitt, city engineer.

LOS ANGELES, Calif.—Bids will be asked shortly by county supervisors to improve Main St. south of Artesia from Orange-Thorpe Ave. south to Central road, etc., (18,600 lin. ft.), involving in the main 32,545 cu. yds. excavation; 435,000 sq. ft. 9x7x7.5-in. conc. pave; 180,000 sq. ft. 4-in. D. R. pave. with rock and oil surface; 495,000 sq. ft. 5-in. D. R. and old macadam or broken conc. base; culverts, etc., with alternate bids for 480,000 sq. ft. 6-in. asphalt conc. base and 480,000 sq. ft. 1½-in. asphalt conc. surface pave.

WILLOWS, Glenn Co., Calif.—Until August 6, 2 P. M., bids will be received by W. B. Sale, county clerk, to construct portion of Fruto-Willocks road, for a distance of approximately 6 miles. Certified check 10% payable to Chairman of Board of Supervisors required with bid. Plans obtainable from County Surveyor Bayard Knock.

LOS ANGELES, Calif.—Bids will be asked shortly by county supervisors to improve Richfield and Ocean Aves., in vicinity of Hynes and Logan Aves., involving in the main: 13,500 cu. yds. excavation; 230,000 sq. ft. 9-7-7.5-in. conc. pave; 245,000 sq. ft. 5-in. D. R. and old macadam base with alternate bids for 230,000 sq. ft. 6-in. asphalt conc. base; 230,000 sq. ft. 1½-in. asphalt conc. surface; 245,000 sq. ft. 5-in. D. R. and old macadam base.

RIVERSIDE COUNTY, Calif.—Following bids received July 30 by State Highway Commission to grade and surface with untreated crushed gravel or stone, 16.2 miles between Desert Center and 9¼ miles west of Hopkins Well:

Bert Noble, San Diego.....	\$256,609
Jahn & Bressi Const. Co., L. A.....	256,815
Yglesias Bros., Inc., San Diego.....	263,636
Lang Transportation Co., L. A.....	264,674
H. W. Rohl Co., L. A.....	265,284
Hodgeman and McViear, Pasadena.....	294,300
Southwest Paving Co., L. A.....	297,823
Skeels & Graham, Roseville.....	301,503
New Mexico Const. Co., Albuquerque, New Mexico.....	317,016
Healy-Tibbitts Const. Co., S.F.....	367,061

Bids held under advisement.

MARYSVILLE, Yuba Co., Calif.—Central-California Roads Co., 28th and Poplar Sts., Oakland, awarded contract by city (37) to improve portions of 12th St. E. St., R. St., involving removal of concrete curbs and sprinkler system, remove trees, grading; pave with 2½-in. Warrentite-Bit surface; conc. curbs, gutters.

ALTURA, Modoc Co., Calif.—City council declared intention (3) to improve Main St. bet. Carlo and Twelfth Sts. Project involves:

- (1) 29,000 cu. yds. asphalt conc. pave.
- (2) 4,600 cu. yds. crushed rock sub-base;
- (3) 8,000 linear feet curbs and gutters (hyd. cement conc.);
- (4) 4,600 sq. yds. hyd. cement concrete sidewalks;
- (5) 1,300 lin. ft. 4- and 6-in. water mains with fittings.

1911 Act. Bond Act 1915 City will pay \$25,000 of total cost from General Fund in city treasury. Bidding Aug. 4. E. E. Elliott, city clerk. S. A. Musher, city engineer.

ALAMEDA, Alameda Co., Calif.—See "Government Work and Supplies," this issue. Contemplated construction for proposed Alameda Air Base for Federal Government.

SHASTA CO., Cal.—State Highway Commission rejects lone bid of A. Teichert and Son, Sacramento, at \$27,789 to apply seal coat and bituminous surface treatment on 35.8 miles of highway, of which 18.8 miles lies between Lamoine and north boundary and 17 miles between Montgomery Creek and the Haynes Ranch. New bids will be asked shortly.

SAN FRANCISCO.—Until August 11, 10 A. M., under Schedule No. 928-31, bids will be received by Quartermaster Supply Officer, Fort Mason, to furnish and deliver 500 bbls. road asphalt, grade C, 2-30 penetration. Further information obtainable from above.

NAPA, Napa Co., Cal.—As previously reported, bids will be received by James A. Daly, county clerk, August 12, 10 A. M., to grade and surface road through Peryessa Valley. Project involves grading, nine miles in length. Approximate quantities involved follow:

- (1) 23,000 cu. yds. grading, unclass.;
- (2) 9,000 cu. yds. crushed rock surfacing, in place.

Specifications obtainable from County Engineer E. P. Ball at Napa.

EUREKA, Humboldt Co., Cal.—Until August 12, 2 P. M., bids will be received by Fred M. Kay, county clerk, to furnish and deliver 1,000 or more cubic yards of crushed rock on the Fickle road near Arcata, in Road District No. 5. Certified check 5% required with bid. Specifications obtainable from county surveyor at Eureka.

KING CITY, Monterey Co., Cal.—Due to protests of property owners, city council has abandoned proceedings under Res. of Intention No. 5, to improve portions of Mildred Ave., 7th and Bassett Sts., etc., involving grading; 5-in. hyd. conc. pave.; hyd. cem. conc. curbs, catchbasins, culverts.

PACIFIC GROVE, Monterey Co., Cal.—City council declares intention (3225) to improve 3rd, 5th, 7th, 8th, 9th and 16th Sts., between Ocean View Ave. and Lighthouse and 4th and 6th Sts. bet. Central and Lighthouse Aves. involving cement concrete gutters with integral curbs and oiled macadam surface, using "Duremulse" emulsified asphalt; surfacing to be laid on a 4-in. crushed rock base). 1911 Act. 1915 Bond Act. Hearing Aug. 21. W. G. Stubbs, city clerk.

SAN MATEO COUNTY, Cal.—Basich Bros., Title Insurance Bldg., Los Angeles, successful bidder at \$402,982, to grade and pave with cement concrete, 5.2 miles between South San Francisco and Burlingame, have awarded a contract to the South City Lumber & Supply Co., South San Francisco, to furnish rock, sand, cement and lumber in connection with the project. The work involves: 85,000 cu. yds. imported borrow; 300 cu. yds. struc. ex-

cavation; 123,100 sq. yds. subgrade for pave.; 32,050 cu. yds. class A Portland cem. conc. (pave.); 1025 tons asphalt conc.; 14,500 tons crusher run base (shoulders); 200 cu. yds. class A Port. cem. conc. (struc.); 876,000 lbs. bar reinf. steel (pave. and struc.); 2100 bbls. light fuel oil; 300 tons screenings; 2250 lin. ft. furnishing untreated Douglas fir piles; 50 each driving Douglas fir piles; 2.5 M ft. b.m. No. 1 common Douglas fir timber; 3000 tons light rip-rap; 660 each, remove add reset timber guide posts; 277 sta. finish rdwy.

SOLANO COUNTY, Calif.—A. Mitchell, Sacramento, submits low bid to district engineer, state highway commission, to construct property fences, etc., between Creston and Vacaville. See page five for tabulated listing of bids on this project.

LYON COUNTY, Nevada—As previously reported, bids will be received August 6, 2 P. M., by State Highway Commission, Carson City, to grade, construct structures and place surfacing material on 23.22 miles between 3 miles north of Wells and Thousand Springs Creek. Project involves: 154,500 cu. yds. excav., unclass.; 163411 yds. sta. overhaul; 23.21 miles prepare subgrade and shoulders; 50,600 cu. yds. crushed rock or crushed gravel in place; 500 cu. yds. crushed rock or crushed gravel in stockpile; 225 cu. yds. class A concrete; 194 cu. yds. class B concrete; 2694 lin. ft. install 18-in., 772 lin. ft. 24-in., 762 lin. ft. 30-in. and 324 lin. ft. 36-in. corr. metal pipe; 240 cu. yds. riprap; 80 monuments; 2 posts for Federal Aid markers; 750 lbs. bearing plates and rollers. The State of Nevada, Dept. of Highway, will furnish corrugated metal pipe culverts 1, o. b. cars, Mellandco Siding, Elko County. Plans obtainable from S. C. Durkee, state highway engineer at Carson City on deposit of \$15, of which \$10 is returnable. Plans on file in office of U. S. Bureau of Public Roads, 461 Market St., San Francisco. Certified check 5% required with bid.

PALO ALTO, Santa Clara Co., Cal.—In addition to the improvement of California Ave., involving an expenditure of \$130,000, the city council plans to improve two miles of streets, representing an area of 330,000 square feet, the cost of which is \$70,000. The projected paving program includes: Palo Alto Ave. from Fulton to Everett; Hale from Palo Alto Ave. to University; Dana in the Duffield subdivision; Forest in the same subdivision; Addison from Channing to Fife; alley in block B, bet. High and Alma, Addison and Lincoln Sts.; Santa Rita from Waverley to Cowper; Princeton from Cambridge to Stanford; Harvard from Stanford to California; Webster from Melville to Embaradero; Pope from Hamilton to University; Sherman from Second to

Thrd; Oberlin from College to California; Harker from Melville to Hutchinson, and Embaradero from Alma to Kingsley. J. F. Byxbee, Jr., is city engineer.

SANTA BARBARA, Cal.—Western Motor Transfer Co., 116 State St., submitted low bid to the city council at \$13,154.79 to improve Salo St., bet. San Andres St. and Mountain Ave. involving:

- (1) 45,995 sq. ft. 5-in. asph. concr. paving;
- (2) 28.4 ft. curb;
- (3) 195.4 sq. ft. gutter;
- (4) 9 ft. 6-in. sewer connections;
- (5) 9951 ft. 2-course walk;
- (6) 1 lampole and 4 manholes to be lowered.

The total bids were:

(A) Western Motor Transfer Co., \$13,154.79.

(B) Hunter & Richardson, \$13,530.03.

(C) Cornwall Constr. Co., \$13,448.56.

The unit bids were:

	(A)	(B)	(C)
(1)	\$215	\$22	\$22
(2) .....	.75	.80	.70
(3) .....	.23	.24	.22
(4)	35.00	37.00	40.00
(5) .....	.19	.20	.19
(6)	15.00	20.00	10.00

SAN FRANCISCO—Bureau of Engineering, Department of Public Wks., completes specifications to improve Quesada Ave. bet. Quint St. and Silver Ave., including crossing of Quesada Ave. and Quint St., involving:

- 500 cu. yds. excavation;
- 550 cu. yds. embankment;
- 475 lin. ft. unarmored conc. curb;
- 150 lin. ft. 6-in. V. C. P.;
- 150 lin. ft. 10-in. V. C. P.;
- 115 lin. ft. 2x8-in. redwood headers;
- 2,600 sq. ft. 1-course conc. sidewalk;
- 5 brick catchbasins;
- 13,700 sq. ft. asph. conc. pave., consisting of 2-in. asph. concrete surface with 6-in. class F concrete base.

Estimated cost, \$6,050.

SAN RAFAEL, Marin Co., Calif.—Until August 12, 11 A. M., bids will be received by Rob E. Graham, county clerk, to improve Lucas Valley road from the County Farm to the Big Rock, a distance of 3.6 miles, involving:

- (1) 18,000 cu. yds. excav. unclassified;
 - (2) 18,000 sta. yds. overhaul;
 - (3) 1,068 lin. ft. 12-inch corr. metal pipe;
 - (4) 180 lin. ft. 18-in. do.;
 - (5) 128 lin. ft. 24-in. do.;
 - (6) 150 lin. ft. 6-inch drain tile in place;
 - (7) 23 cu. yds. class A Portland cement concrete (headwalls);
 - (8) 400 lbs. reinf. steel (headwalls).
- County will furnish corr. metal pipe. Plans obtainable from County Surveyor Rodney Messner, Courthouse, San Rafael.

SAN FRANCISCO—Bureau of Engineering, Department of Public Wks., completes specifications to improve 22nd St. bet. Kansas and Rhode Island Sts., including crossing at Kansas St., involving:

- 500 cu. yds. excavation;
- 113 lin. ft. armored concrete curb;
- 90 lin. ft. 10-in. V. C. P.;
- 21 lin. ft. 6-in. V. C. side sewers;
- 554 sq. ft. 2-course conc. sidewalks;
- 525 sq. ft. 6-in. class C conc. pave.;
- 3 brick catchbasins;
- 4,684 sq. ft. asph. conc. pave., consisting of 2-in. asph. conc. surf. with 6-in. class F conc. base.

Estimated cost \$2,375.

GUSTINE, Merced Co., Calif.—City trustees cancel proceedings to improve various streets due to protests of property owners. The work was estimated to cost \$60,000. A. E. Cowell city engineer.

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PLACER COUNTY, Cal.—Until Aug. 1, 2 P. M., bids will be received by C. H. Whitmore, district engineer, State Highway Commission, 502 State Office Bldg., Sacramento, to apply bituminous surface treatment on 2.9 miles between Roseville and Rocklin. See call for bids under official proposal section in this issue.

LYNWOOD, Los Angeles Co., Cal.—Until Aug. 5, 8 P. M., bids will be received by city council to improve Lewis Road, Standard Ave., etc., involving 90,400 sq. ft. 3-in. D. R. sub-base; 90,400 sq. ft. rock and oil surface pavement; water system complete; curbs, gutters, walks. 1911 Act. Bond Act 1915. Specifications obtainable from A. J. Bateman, city engineer, on payment of \$3.

MODOC COUNTY—State Highway Commission rejects bids received July 16 to grade and surface with untreated crushed gravel and stone, about 1.4 miles between 3 mi. and 4.4 mi. east of Alturas. C. N. Chittenden, Napa, at \$51,532 and Dunn & Baker, Klamath Falls, Ore., at \$74,875 were the only bidders.

SAN LUIS OBISPO COUNTY, Cal.—Until August 8, 2 P. M., bids will be received by L. H. Gibson, district engineer, State Highway Commission, Bank of Italy Bldg., San Luis Obispo, to grade and apply heavy fuel oil to shoulders on 9.4 miles between Paso Robles and Atascadero. Spec. obtainable from district engineer.

MARTINEZ, Contra Costa Co., Cal.—County Surveyor R. R. Arnold is making surveys to route the proposed industrial highway from Antioch to Richmond. Proposed roadway will be 40 ft. wide of a very heavy type of pavement. One proposal is that the present highway be followed from Antioch to a point east of Martinez, where a new highway would be built running south of Martinez and connecting with the Franklin Canyon highway near Muir station. Franklin Canyon would then be followed to the main highway and thence along the state highway to a point at the Tank Farm hill, from which point the road would swing into Richmond and connect with the proposed industrial highway from Richmond to San Jose along the waterfront.

NEVADA CITY, Nevada Co., Cal.—County Surveyor J. F. O'Connor is making surveys for new Colfax road. Three routes are proposed in connection with the project to eliminate the Woodpecker Creek horseshoe turn without cutting a new road through the Law or Henderson orchards.

SAN FRANCISCO—Until July 20, 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to improve:

Portions of Rousseau, Bosworth, Lyell Sts., etc., involving construction of artificial stone sidewalks; estimated cost \$400.

Portions of 18th Ave., 5th Ave., Diamond St., etc., involving construction of artificial stone sidewalks; estimated cost \$800.

Southwest half of Mission St. near Lowell St., involving removal of sand from roadway and construction of bulkhead, 3-ft. high; estimated cost \$400.

South half of Trumbull St. near Craut St., involving removal of sand roadway and construction of bulkhead, 3-ft. high; (2 projects), cost each \$100.

Certified check 10% payable to the Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall.

ALTURAS, Modoc Co., Cal.—City council declares intention (3) to improve Main St., bet. Carlo and Twelfth Sts., involving grading; hyd. cem. conc. sidewalks, curbs and gutters; corr. metal culverts; hyd. cem. concrete catchbasins; asphalt concrete pavement with crushed rock sub-base; c. l. water pipes and fittings. 1911 Act. Bond Act 1915. City will pay \$25,000 of total cost from General Fund in city treasury. Hearing August 4. E. E. Elliott, city clerk. S. A. Mushen, city engineer.

ALAMEDA COUNTY, Calif.—Until August 1, 3 P. M., bids will be received by John H. Skeggs, district engineer, State Highway Commission, State Bldg., San Francisco, to furnish and install perforated metal pipe underdrain between Dublin and Hayward.

See call for bids under official proposal section in this issue.

RIVERSIDE, Riverside Co., Calif.—The county supervisors have selected the Pinon Flats route for the proposed desert-mountain highway down the east slope of the San Jacinto Mountains. According to the county surveyor, A. C. Fulmer, the route selected will save about \$20,000 in construction costs over the Palm Canyon route. The Pinon Flats route will cost about \$384,000. The board's action followed the recommendations of the county surveyor.

SAN BERNARDINO COUNTY, Cal.—Until July 31, 3 P. M., bids will be received by E. Q. Sullivan, district engineer, State Highway Commission, 247 Third St., San Bernardino, to furnish and apply fuel oil as a dust layer on 23.8 miles between Sawmill and Bear Lake. Specifications obtainable from above.

SALINAS, Monterey Co., Cal.—Until August 4, 7:30 P. M., bids will be received by M. R. Keef, City Clerk, (90) to improve portions of Archer St., Homestead Ave., Buena Vista St. and Central Ave., involving grading; hydraulic cement concrete curbs; 5-in. hydraulic cement concrete pavement; 3½ in. hydraulic cement concrete sidewalks. Bond Act 1915. Imp. Act 1911. Certified check 10% payable to city required with bid. Plans on file in office of clerk at obtainable from Howard Cozzens, city engineer.

MARIPOSA COUNTY, Cal.—George Pollock, Forum Bldg., Sacramento, at \$65,937.75 submitted low bid to U. S. Bureau of Public Roads, San Francisco, to grade Section B, Fish Camp, Fourmile of Route 47, Oakhurst National Forest Highway in Sierra National Forest, 2,648 miles in length, involving: 17.3 acres clearing; \$5,240 cu. yds. unclassified excavation; 405 cu.

yds. unclassified excavation for structures; 12,705 sta. yds. overhaul; 2,648 miles finish earth graded road; 34 cu. yds. cement rubble masonry; 1,420 lin. ft. corr. galvanized metal culvert pipe in place; maintenance of existing road and 8 in. road accepted for traffic, estimated cost \$1500; 74 right of way monuments. Three low bids and engineer's estimate follow:

Geo. Pollock, Sacramento	\$67,937
Lewis Const. Co., Los Angeles	72,564
T. E. Connelly, San Francisco	77,093
Engineer's estimate	72,625

SALINAS, Monterey Co., Cal.—Until August 4, 7:30 P. M., bids will be received by M. R. Keef, City Clerk, (89) to improve Spring St., bet. Griffin and Summer Sts., involving grading hydraulic cement concrete curbs; 5-in. hydraulic cement concrete pavement; 3½ in. hydraulic cement concrete sidewalks. Bond Act 1915. Imp. Act 1911. Certified check 10% payable to city required with bid. Plans on file in office of clerk and obtainable from Howard Cozzens, city engineer.

MARIPOSA COUNTY, Cal.—George Pollock, Forum Bldg., Sacramento, at \$205,875 submitted low bid to U. S. Bureau of Public Roads, San Francisco, to grade 7.08 miles of Mariposa Grove Section of Wawona Route in Sierra National Forest, involving: 55.28 acres clearing; 320,000 cu. yds. unclassified excavation; 1346 cu. yds. structural excavation; 94,765 sta. yds. overhaul; 7.08 miles finishing; 121 cu. yds. cement rubble masonry; 5550 lin. ft. corrugated metal pipe in place; 195 cu. yds. hand laid riprap; maintenance of detours (est. cost, \$250); 0.5 mile moving existing fences. Three low bids and engineer's estimate follow:

Geo. Pollock, Sacramento	\$205,875
Lewis Const. Co., Los Angeles	208,017
Granfield, Farrar and Carlin	254,268
San Francisco	254,268
Engineer's estimate	271,369

SANTA BARBARA, Cal.—Until August 7, 1:30 P. M., bids will be received by S. B. Taggart, city clerk, to improve Cota Street, bet. Milpas St. and Soledad St. and Voluntario St., bet. Cota St. and Haley St., by grading, concrete cement pavement, cement concrete driveways, cement concrete sidewalk, vitrified salt glazed pipe side connection sewers, etc., under 1911 Act. Certified check 10% required with bid. Plans on file in office of clerk.

MILL VALLEY, Marin Co., Cal.—Until August 18, 8 P. M., bids will be received by Francis F. Seitz, Clerk, Mill Valley School District, to pave portion of the playground at the Old Mission School, specifically that part known as Utility Court. Specifications obtainable from the clerk.

CONTRACTORS' MACHINE WORKS

SPECIALISTS ON REPAIRING AND REBUILDING OF

Bunkers, Hoppers, Chuting, Conveyors, Rollers, Mixers, Hoists, Shovels, Tractors, Pavers, Crushers, Drag Lines, Elevators, Car Unloaders, and other Road and Building Equipments;

BLACKSMITHING AND WELDING

Builders of Rosenberg Portable Car Unloaders

CREAR & BATES

57 Zoe St., bet. 3rd and 4th, off Brannan St.
Phone GARfield 4374 San Francisco

SAN FRANCISCO.—Until July 30, 2:30 P. M., bids will be received by S. J. Heister, secretary, Board of Public Works, to improve:

Pennsylvania Ave. Ect. 433 ft. north of 23rd St. and 36-ft. south from 25th St., etc., involving vit. clay pipe sewers with wye branches, side sewers; brick manholes. Est. cost \$6,000.

Joost Ave. bet. Detroit and Edna Sts. (where not) involving armored concrete curb; art. stone walks; brick catchbasin; 12-in. ironstone pipe sewers; 6-in. conc. base pave. with 1½-in. asph. conc. surface. Est. cost \$2,800.

Certified check 10% payable to the Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall.

SAN FRANCISCO.—Until July 30, 2:30 P. M., bids will be received by S. J. Heister, secretary, Board of Public Works to improve portions of streets in the Castro Street Addition and Glen Park Terrace, involving grading; armored concrete curbs; concrete walks; 2-in. asph. conc. surface pave. on 6-in. class F concrete base; brick catchbasins and manholes; side sewers. Estimated cost \$52,000.

Certified check 10% payable to the Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall.

SANTA CRUZ, Santa Cruz Co., Cal.—Granite Const. Co., Watsonville, at \$5913 awarded contract by county supervisors to pave with oil bound macadam portions of Mandanona Road, Calabasas Highway and Brown Valley Road.

GILROY, Santa Clara Co., Calif.—City council rejects bids to improve portions of Hanna St., First St., Sixth Street, Alexander St., etc., involving grading; asphalt concrete pavement; cement concrete curbs, gutters, and walks; storm water sewer. Work under 1911 Act and Bond Act 1915. Additional streets will be included in the program and a new call for bids will be issued. Bids received under the last call were: Hanrahan Co., San Francisco, \$54,955; Union Paving Co., San Francisco, \$56,465; P. S. Harless, San Rafael, \$59,131; California Road and Street Imp. Co., Fresno, \$59,238; Central-California Roads Co., Oakland, \$64,384. Ray Fisher is city engineer.

BAKERSFIELD, Kern Co., Calif.—Until August 4, 5 P. M., bids will be received by V. Van Riper, city clerk, to construct concrete sidewalks in 18th St. bet. the Kruse Tract and point 132-ft. west of R St. Certified check 10% payable to city required with bid. Plans on file in office of clerk.

LOGGING OPERATIONS SLOW

Portland, Ore., reports that logging operations will slow up for a couple of months. There are now 300,000,000 ft. of logs in the Columbia river waiting to be sawn. Most of these have been sold, however, and are not a factor in the market prices now prevailing.

DOWD CONCRETE FORM SYSTEM IS PURCHASED

Masonite Corp., Chicago, Ill., has bought outright the Dowd Concrete Form System, Inc. The Dowd form system, utilizing Masonite Presswood, will be made available to all contractors, without charge. This service will be under the management of E. B. Bushnell, head of the concrete form department.

(Continued from Page 17)

MISCELLANEOUS CONSTRUCTION

FRESNO, Fresno Co., Cal.—Giant Manufacturing Co., Council Bluffs, Iowa, at approximately \$12,000 awarded contract by David E. Brown of Fresno, promoter, to install night lighting facilities in Firemen's Baseball Park. The system will involve the installation of 70 ft. poles furnishing 180,000 watts. The installation will be made under the supervision of I. D. Valentine, district manager for the Giant Company.

MISCELLANEOUS SUPPLIES AND MATERIALS

SEBASTOPOLE, Sonoma Co., Cal.—Until August 14, 7:30 P. M., bids will be received by J. B. Bridgeford, clerk, Andy Union High School District, to furnish tires and tubes for school automotive equipment for year 1930-31. Specifications and further information obtainable from clerk.

OAKLAND, Cal.—Until Aug. 4, 4:30 P. M., bids will be received by G. B. Hegardt, secretary, City Port Commission, 424 Oakland Bank Building, to furnish 32 cast steel 20-in. ball joints; Plummer or equal. Delivered to Oakland Harbor Terminal.

Certified check 10% required with bid. Bond in full amount of the contract price required of successful bidder. Specifications obtainable from secretary on deposit of \$5, returnable.

GLENDALE, Los Angeles Co., Cal.—Until 10 A. M., Aug. 7, bids will be received by the city council for delivering f.o.b. warehouse, Glendale: Item 1: Transite, in accordance with drawing No. 1360-E, sheet 14; Item 2: Ebony asbestos, in accordance with drawings No. 1360-E, sheets 17, 18 and 19. Cert. check 10%. G. E. Chapman, city clerk.

TOMALES, Marin Co., Calif.—Until August 12, 8 P. M., bids will be received by A. L. Cunningham, clerk, Tomales Joint Union High School District, to furnish and deliver (1) 5000 gallons of gasoline; (2) 15 truck tires and tubes, size 32x8, include specifications with the bid; (3) 20 tons of best grade furnace coal. Further information obtainable from clerk.

BUSINESS OPPORTUNITIES

SAN FRANCISCO—Names and addresses of the individuals or firms concerned in these opportunities will be furnished on request to the Business Opportunity Department of Daily Pacific Builder, 545-547 Mission Street, Phone Garfield 8744.

20334—Slate. Genoa, Italy. Manufacturers of slate for roofing, billiard tables, blackboards, etc., are desirous of forming connections with importers of these commodities in San Francisco. Price list and samples are available.

20335—Marble. San Francisco, Cal. Shippers of white and colored granulated marble produced in northern Italy, desire to communicate with interested firms in San Francisco. Price list and samples are available.

20336—Interweaving Machinery. San Francisco, Cal. Italian manufacturer of new type of machine for interweaving desires to communicate with firms interested in its importation. Catalogue on file.

20340—Machinery for Refining Soya Bean Oil. Tokyo, Japan. Company desires to get in touch with manufacturers of machinery or refining veg-

etable oils, particularly soya bean oil. Catalogs, price lists requested.

20341—Lumber. Washington, D. C. Party representing a Manila lumber firm is interested in finding local market among large wholesale dealers.

20342—Representation. Montevideo, Uruguay. Party located in Uruguay is desirous of representing local firms there.

20344—Yarn and Thread Machinery. Sinaloa, Mexico. Party desires to obtain modern machinery for manufacture of yarn and thread.

Harry N. Burhans, 75 Young Bldg., Honolulu, T. H., merchandise manager of a concern established in Hawaii, is desirous of securing the distributorship of high grade paint and varnish brushes for automobiles; also cheaper grade paint and varnish brushes, sand and emery paper and small paint sprays, in that territory. If interested communicate with Mr. Burhans direct.

C. C. King, Tacoma, Wash., desires to locate goods of National reputation to be sold in the Northwest direct from the manufacturers to the retailers. If interested communicate with him direct.

PEAVEY COMPANY TAKES OVER FLAX-LI-NUM COMPANY

Controlling interest in the Flax-linum Insulating Co., St. Paul, Minn., has been acquired by F. H. Peavey & Company, a grain marketing organization. The change in ownership has already taken effect.

H. B. Harden, for many years associated with the Johns-Manville Corporation, has been appointed general manager and sales director. J. B. Gillilan, president of Van Dusen-Harrington Co., one of the Peavey controlled corporations, has been made president. Harden is vice-president and general manager, and Frank Evans, secretary-treasurer.

The Flax-linum Insulating Company recently developed a new product, Bi-Flax, a new type of insulating plaster base. Bi-Flax is a combination of Flax-linum insulation, building paper and expanded metal lath. It enables the builder to handle metal lath and insulation as one unit.

RECESSED TYPE BATHROOM CABINET ANNOUNCED

The lighting of the bathroom is an important item in the modern home, apartment, and hotel—scientifically arranged light fixtures must be placed just right to give perfect vision for Dad's morning shave, for Bobby's "scrub," or for Mother's wave set—there must be no dark spots.

A new steel bathroom cabinet—recessed type—has been designed by the Welded Products Corp. of Kansas City, Mo., which provides these necessary lights as built-in fixtures. One at each side, these light fixtures—chromium plated—are placed to cast the best light reflection on the mirror—and are controlled by an individual switch. This modern electrical service also provides a "convenience" receptacle plug for attaching curling iron, heater, fan, or other electrical appliances.

All four outlets are serviced by a single electrical box. The cabinet, completely wired, eliminates the usual high cost of installing electrical fixtures. Finest French plate glass—plain or polished bevel—is used for the mirror door of the cabinet. Generously proportioned, the cabinet is electrically welded of 18 gauge steel.

The "Duotex" finish—durable and none-staining—may be had in standard white or in colors. The cabinet may also be had without the electrical fixtures if desired.

Contracts Awarded

Liens, Acceptances, Etc.

BUILDING PERMITS

SAN FRANCISCO COUNTY

946	Weinstein	Barrett	4000
947	California	Allen	1000
948	Ilerzig	Owner	5000
949	Ijlul	Owner	1000
950	Lowey	Barrett	2000
951	Pasqualetti	Owner	4000
952	Peterson	Owner	3500
953	Rogers	Owner	4000
954	Stark	Ingermann	4000
955	Eickel	Harms	5550
956	Nt. Zion	Barrett	12000
957	Cereal	Coburn	2000
958	Kirrane	Owner	1800
959	Schoeneman	Delucchi	1200
960	Milne	Acme	3500
961	Scharff	Ohlsen	2000
962	Hinkel	Owner	8000
963	Cox	Owner	6000
964	Swanson	Owner	4000
965	Hilbar	Barrett	7000
966	Tay	Owner	8000
967	Knutsen	Owner	1500
968	Battersby	Owner	4000
969	Amatore	Owner	3750
970	Castle	Horn	6500
971	McCarthy	Owner	3800
972	Stoneson	Owner	14000
973	Hurder	Owner	3500
974	Standard	Owner	3000
975	Standard	Owner	1000

ALTERATIONS

(946) 1041 MARKET ST.; alterations and additions to store.
Owner—Weinstein Co., 1041 Market.
Architect—Hyman & Appleton, Foxcroft Bldg.
Contractor—Barrett & Hilp, 918 Harrison St. \$4000

KINDERGARTEN

(947) W CAROLINA 100 N Southern Heights; one-story and basement frame kindergarten.
Owner—California Synodical Society of Home Missions, 933 De Haro St.
Architect—Julia Morgan, 1135 Merchants Exchange Bldg.
Contractor—A. E. Allen, Palo Alto. \$10,000

DWELLING

(948) E SAN ALESO 200 N Upland; one-story and basement frame dwelling.
Owner—A. J. Herzig, 1945 Ocean Ave.
Plans by D. E. Jackle, Call Bldg. \$5000

ALTERATIONS

(949) S HARRISON ST. 73 W First; alterations for mezzanine floor.
Owner—J. H. Hjul, 128 Russ St.
Plans by Owner. \$1000

REPAIRS

(950) 878 McALLISTER ST.; repair fire damage.
Owner—E. J. Lowey, 130 Sutter St.
Architect—None.
Contractor—Barrett & Hilp, 918 Harrison St. \$2000

ALTERATIONS

(951) SE ASHTON & Holloway; remove stores and alter for three apt. flats.
Owner—J. A. Pasqualetti, 1745 Filbert.
Architect—A. H. Larsen, 447 Sutter Street. \$4000

DWELLING

(952) S PARADISE 56 E Elk St.; 1-story and basement frame dwelling.

Owner—E. Peterson, 5463 Mission St.
Architect—None. \$3500

DWELLING

(953) E 22nd AVE. 225 S Rivera; 1-story and basement frame dwelling.
Owner—J. W. Rogers, 1693 21st Ave.
Plans by R. Irvine, New Call Bldg. \$4000

DWELLING

(954) W 22nd J. VE. 240 N Vicente; 1-story and basement frame dwelling.
Owner—T. L. Stark, 1261 10th Ave.
Architect—C. Strothoff, 2274 15th St.
Contractor—C. Ingermann, 2395 20th Avenue. \$4000

STORE

(955) W SEVENTH ST. 275 S Howard St.; one-story and basement class C store.
Owner—Abby Frink Bickel, El Cortez Hotel.
Architect—R. H. Bickel, 12 Geary St.
Contractor—R. Harms, 1217 Stanyan Street. \$5950

ALTERATIONS

(956) NW POST & SCOTT STS.; alterations and additions to hospital.
Owner—Mt. Zion Hospital, 2200 Post.
Architect—A. Brown, Jr., 251 Kearny Street.
Contractor—Barrett & Hilp, 918 Harrison St. \$12,000

REPAIRS

(957) 729 FULTON ST.; repair fire damage.
Owner—Cereal Prod. Co., 712 Hearst Building.
Architect—None.
Contractor—L. W. Coburn, 712 Hearst Building. \$2000

DWELLING

(958) W WISCONSIN 450 E 22nd St.; one-story and basement frame dwelling.
Owner and Builder—J. Kirrane, 801 Wisconsin St.
Plans by Owner. \$1800

ALTERATIONS

(959) 1259 FRANCISCO ST.; alterations to apartments.
Owner—R. Schoeneman, 1259 Francisco St.
Architect—None.
Contractor—J. J. Delucchi, 1526 Powell Street. \$1200

DWELLING

(960) W CAINE 175 S Lake View; 1-story and basement frame dwelling.

CAPITAL CITY TILE COMPANY

J. C. PALEN

Manager

914 Seventh Street

Sacramento - - - California

Owner—L. R. Milne.

Plans by Builder.

Contractor—Acme Const. Co., 301 Evergreen Ave. \$3500

ALTERATIONS

(961) 360 LINDEN AVE.; repair fire damage.
Owner—E. E. Scharff, 60 Sansome St.
Architect—None.
Contractor—A. H. Ohlsen, 2869 Harrison St. \$2000

DWELLINGS

(962) E FAXON 525 N Halloway, two 1-story and basement frame dwellings.
Owner—Hinkel Bros., 1204 Castro St.
Architect—None. \$4000 each

FLATS

(963) W 22nd AVE. 125 N Geary St.; two-story and basement frame (2) flats.
Owner—E. J. Cox, 228 21st Ave.
Architect—None. \$6000

DWELLING

(964) W 20th AVE. 225 N Taraval; two-story and basement frame dwelling.
Owner—N. Swanson, 2162 20th Ave.
Architect—None. \$4000

LOFT

(965) S HARRISON 142 E 5th St.; 1-story and mezzanine concrete loft.
Owner—Hilbar Co., cnre architect.
Architect—E. A. Eames, 353 Sacramento St.
Contractor—Barrett & Hilp, 918 Harrison St. \$7900

ALTERATIONS

(966) NE EIGHTH & Natoma Sts.; alterations and additions for office.
Owner—Tay-Holbrook, Inc., care architect.
Architect—J. E. Kraft & Sons, Phyllan Bldg. \$8000

DWELLING

(967) W 44th AVE. 100 N Judah St.; one-story frame dwelling.
Owner—Knutt Knutsen, 1383 44th Ave.
Architect—None. \$1500

DWELLING

(968) N RUSSIA 25 W Munich; one-story and basement frame dwelling.
Owner—G. M. Battersby, 478 Munich.
Architect—None. \$4000

DWELLING

(969) W HAMPSHIRE 35 N 26th St.; one-story and basement frame dwelling.
Owner—F. Amatore, 1392A Hampshire Street.
Architect—None. \$3750

DWELLING

(970) W SAN BENITO 62 N Ocean; two-story and basement frame dwelling.
Owner—Castle Bldg. Co., 830 Market Street.
Architect—None.
Contractor—H. Horn, 830 Market St. \$6500

DWELLING

(971) E 12th AVE. 150 S Kirkham; 1-story and basement frame dwelling.
Owner—L. J. McCarthy, 1340 Funs-ton Ave.
Architect—None. \$3500

DWELLINGS

(972) S NAVAJO 125 E Delano; four one-story and basement frame dwellings.
Owner and Builder—Stoneson Bros. & Thorlinton, 279 Yerba Buena.
Architect—C. F. Strothoff, 2274 15th Street.
each \$3500

DWELLING

(973) N ARLETA 75 E Rutland; one-story and basement frame dwelling.
Owner—J. H. Hurder, 805 Vermont St.
Architect—C. F. Strothoff, 2274 15th Street. \$3500

SERVICE STATION

(974) SW COR. THIRD and Mariposa St.; one-story steel frame service station.
Owner—Standard Oil Co., 225 Bush St.
Architect—None. \$3000

REST ROOM

(975) NW POLK and McAllister; 1-story steel frame rest room.
Owner—Standard Oil Co., 225 Bush St.
Plans by Owner. \$1000

BUILDING CONTRACTS**San Francisco County**

158 Dun	Hayes	14800
159 Mayes	Argonaut	35500
190 California	Allen	10000
161 Stark	Ingerman	6715
162 Bickel	Harmes	7950

STORE & FLATS

(155) N BRENHAM PLACE 39-6 S Washington; all work on 3-story concrete stores and flats.

Owners—Frank W. and Jeanette W. Dun.
Engineers—Fred J. Mesher and W. Adrian, 417 Market St.

Contractor—Daniel Hayes, 22 Brady.
Filed July 24, '30. Dated July 22, '30.
1st floor joists in place.....\$3200
Ready for plaster & roof on.....3200
Completed and accepted.....3200
Usual 35 days.....3200
Deed of trust on ppy.....2000
TOTAL COST, \$14,800
Limit, 120 days. Plans and Spec. filed.

APARTMENTS

(159) SE CHESTNUT and Kearny E 40 S 63; all work on three-story and basement frame apartments.

Owner—Carolyn S. Mayes.
Architects—C. O. Clausen and F. F. Amandes, Hearst Bldg.

Contractor—Argonaut Investment Co.
Filed July 24, '30. Dated July 3, '30.
On execution of this agreement deed of trust for.....\$9500
Frame up.....6500
Brown coated.....6500
Completed and accepted.....6500
Usual 35 days.....6500
TOTAL COST, \$35,500
Limit, 90 days after July 10, Plans and Spec. filed.

KINDERGARTEN

(160) W CAROLINA 100 N Southern Heights; all work on one-story and basement frame kindergarten.

Owner—California Synodical Society of Home Missions, 933 De Haro St.
Architect—Julia Morgan, 1135 Merchants Exchange Bldg.

Contractor—A. B. Allen, Palo Alto.
Filed July 24, '30. Dated July 23, '30.
8th day of each month.....75%
Usual 35 days.....25%
TOTAL COST, \$10,000
Plans and Spec. filed.

RESIDENCE

(161) W TWENTY-SECOND AVE 240 N Vicente N 30xW 120. All work for one-story and basement frame residence.

Owner—Theodore L. and Daisy L. Stark.

Architect—Chas. F. Strothoff, 2274

15th St., San Francisco.

Contractor—C. Ingerman, 2395 20th Avenue.

Filed July 28, '30. Dated July 24, '30.
Roof sheathing on.....\$1678.75
Brown coated and scratch coat on.....1678.75
Completed and accepted.....1678.75
Usual 35 days.....1678.75

TOTAL COST, \$675.00
Bond, \$3357.50. Surety, Albin Warden and Martin Nelson. Limit, 90 days. Forfeit, none. Plans and specifications filed.

BUILDING

(162) W SEVENTH 275 S Howard S 47-6xW 65. All work for one-story Class C reinforced concrete building.

Owner—A. F. Bickel.
Architect—R. H. Bickel, 12 Geary St., San Francisco.

Contractor—R. Harms, 1217 Stanyan St., San Francisco.
Filed July 28, '30. Dated July 25, '30.
Concrete forms up.....1/4
Fire wall finished.....1/4
Completed and accepted.....1/4
Usual 35 days.....1/4

TOTAL COST, \$7950
Bond, \$7950. Surety, The Fidelity & Casualty Co. of New York. Limit, 50 days. Forfeit, none. Plans and specifications filed.

COMPLETION NOTICES**San Francisco County**

Recorded Accepted

July 29, 1930—S ELLIS 87-6 W Larkin W 50x120. George Gibbs to J G Kincanon.....July 26, 1930

July 29, 1930—S HILL 235 E Noe E 25 S 114. Marshall T Struthers to Gerald J Conway.....July 29, 1930

July 29, 1930—SW SHAFTER AVE NW Ingalls 50x100. Luigi Ruggio, and Cesare Faggioni to Faggioni & Ruggio.....July 21, 1930

July 26, 1930—LOT 10 BLK 255 St. Mary's Park. The Roman Catholic Archbishop of S. F. to Andrew R Johnson.....June 23, 1930

July 29, 1930—N JUDSON AVE 100 E Genessee N 125. Chas L Nelson to whom it may concern.....July 29, 1930

July 26, 1930—N SENECA 50 W Mission N 50 x W 43 Blk 10 Heyman & Bros Sub pin West end map No 1 Bernal Rancho. M & E Huraglia to E Evangelisti.....July 24, 1930

July 26, 1930—LOT 181 Map Spring Valley Hd Assn. Jesse Horn to whom it may concern.....July 25, 1930

July 26, 1930—E 15th AVE 45 7-6 S Taraval St, known as 2476 15th Ave. John Micheal and Christian Bommer to whom it may concern.....July 21, 1930

July 26, 1930—E 42nd AVE 250 S Judah S 50 x E 120. Mabel Ahrens to Frank Almquist, Otto Ohlson.....July 23, 1930

July 25, 1930—LOT 1A BLK 3262 Balboa Terrace corner Darien Way and San Alejo, 538 Darien Way. George W and Josephine Stanley to whom it may concern.....July 25, 1930

July 25, 1930—SE HAIGHT ST and Fillmore 90-6x85-6. Jacob Weissbein, Inc to whom it may concern.....July 24, 1930

July 25, 1930—LOTS 138 and 139 map Spring Valley Road. James T and Mary P Keeley to whom it may concern (two completions).....June 24, 1930

July 25, 1930—LOT 17 BLK 57, Reis Tract. Emil Speckhahn to P Fetz.....July 24, 1930

July 24, 1930—S CHESTNUT 93-6 E Broderick. Donald S Kavanagh to whom it may concern.....July 24, 1930

July 24, 1930—W THIRTY-EIGHTH AVE 225 S Judah S 25xW 120. Julia L Kurth to whom it may concern
July 24, 1930—55 W 21st AVE on S Ulloa, 2325 Ulloa St. Ralph E Prentiss to whom it may concern.....July 24, 1930

July 23, 1930—N LONDON 175 W Avalon Ave 25x100. E Castell to D Delucchi & Son.....July 23, 1930

July 23, 1930—N JACKSON Inter E Gough N 135-2 1/4 x E 85-5. Edward Jose to whom it may concern.....July 23, 1930

July 23, 1930—N 26th AVE 64 E York 2832 26th Ave. John Lambros to Frank Amatore.....July 21, 1930

LIENS FILED**San Francisco County**

Recorded Amount

July 21, 1930—S CHESTNUT 169 E Van Ness Ave E 30 x S 110 WA 42. Angus MacKillop as Mackillop Hdwe Store vs Anne Lescinski, Edward Ballaris and Victor Sund as Ballaris & Sund.....\$74.90

July 13, 1930—SW BUSH & Franklin W 144-9 x S 120. Truscon Steel Co vs Ray Schwartz.....\$100

July 26, 1930—W HARVARD 100, 125 and 150 N Silliman. N A Straub vs L A Booker.....\$53

July 24, 1930—E BAKER 25-8 1/4 N Sacramento N 25-6 x E 102-6 WA 542. W B Jefferson as The Great-er City Lumber Co vs Elsie and Herman G Sonnenschein and G H Augustine.....\$62.80

RELEASE OF LIENS**San Francisco County**

Recorded Amount

July 25, 1930—N PINE 31-3 E Lyon E 25 x N 80. Geo A Wara to A C O'Donnell and A C and T O'Donnell, Thos McDonald.....\$350

July 24, 1930—E FOLSOM ST 75 N Ripley N 25 x E 90. Geo Sterling to Mary Klein.....\$350

July 22, 1930—E MONTGOMERY 120-6 S Bush S 33-6 E 77-6 in or L Gunn, Carle & Co, Ltd. to S B Fagge, Industrial Constr Co and the Lurie Co.....\$7261

July 23, 1930—1901 OR 42 NORTH Greenwich 75-6 W Gough W 11x N 108 Ginsberg Tile Co to A F Meyers (as Meyers Mfg Co) and Chas Martin.....\$69.35

BUILDING PERMITS**Alameda County**

932 Lodge	Lodge	4500
933 Holmes	Bissell	3800
934 Wilson	Hopper	2150
935 Hansen	Rose	2000
936 Lyon	Muller	1000
937 Black	Anderson	4900
938 Oakland	U S Bldg	3000
939 Papin	Morilhat	1000
940 Pendelton	Owner	6500
941 Nilson	Owner	3000
942 Benetto	Nunes	3500
943 Duren	Owner	1600
944 Anderson	Owner	1500
945 Gray	Owner	1000
946 Cutter	Schmidt	12000
947 Armstrong	Andersen	1000
948 Placke	Thrams	9600
949 Weaver	Owner	6900
948 Goodchaux	Vezezy	6085
950 Bond	Gosset	5500

DWELLING

(932) 921 GLEN DRIVE, SAN LE. ANDRO; 5-room frame and stucco dwelling.
Owner and Builder—C. F. Lodge, 763 Collier Drive, San Leandro.
Architect—None. \$4500

DWELLING

(933) 9121 SCOTT ST., OAKLAND;
two-story 4-room dwelling.
Owner—M. S. Holmes, 2223 Telegraph
Ave., Oakland.
Architect—None.
Contractor—R. A. Bissell, 9115 Scott
St., Oakland. \$3800

ALTERATIONS

(934) 6257 ACACIA AVE., OAKLAND;
alterations and repairs.
Owner—R. O. Wilson.
Architect—None.
Contractor—Marshall Hopper, 1749
Pleasant Valley Ave., Oakland. \$2150

ALTERATIONS

(935) NO. 2000 SAN PABLO AVE.,
BERKELEY. Alterations.
Owner—B. T. Harsen, 1977 Hopkins
St., Berkeley.
Architect—None.
Contractor—A. H. Rose, 478 25th St.,
Oakland. \$2060

ALTERATIONS

(936) NO. 25 CROCKER AVE.,
PIEDMONT. Alterations.
Owner—H. B. Lyon, 306 Sheridan
Ave., Piedmont.
Architect—None.
Contractor—F. A. Muller, 805 Syndi-
cate Bldg., Oakland. \$1000

ALTERATIONS

(937) NO. 49 SIERRA AVE., PIED-
MONT. Alterations.
Owner—B. W. Black, M. D., 10 Mesa
Ave., Piedmont.
Architect—None.
Contractor—C. M. Anderson, 1853 9th
Ave., Oakland. \$4000

ALTERATIONS

(938) SE COR. 17th & BROADWAY,
OAKLAND; alterations.
Owner—Oakland Bank Trustee, 12th
and Broadway, Oakland.
Architect—None.
Contractor—U. S. Bldg. & Loan Assn.,
1440 Broadway, Oakland. \$3000

ADDITION

(939) 1420 SIXTH AVE., OAKLAND;
brick addition.
Owner—M. Papin, 1420 6th Ave., Oak-
land.
Architect—None.
Contractor—P. Morilhat, 1719 14th Ave.
Oakland. \$1000

DWELLING

(940) 1650 TRESTLE GLEN ROAD,
OAKLAND; 2-story 7-room dwell-
ing.
Owner and Builder—H. C. Pendleton,
19 Downey Place, Oakland.
Architect—None. \$6500

RESIDENCES

(941) NO. 1235-37-39 EVELYN AVE.,
BERKELEY. Three one-story 3-
room residences.
Owner—R. E. Nilson, 2212 Eunice
Ave., Berkeley.
Architect—None. \$3000

DWELLING

(942) W SANTA ROSA 50 N Mag-
dolena St., SAN LEANDRO. Five
room rustic and stucco dwelling
with porch.
Owner—J. Repetto.
Architect—None.
Contractor—A. F. Nunes, 37 Castro
St., San Leandro. \$3500

ADDITION

(944) 4523 BOND ST., OAKLAND;
addition to apartments.
Owner and Builder—E. H. Duren, 4523
Bond St., Oakland.
Architect—None. \$1600

DWELLING

(945) 2550 SCHOOL ST., OAKLAND;
one-story 3-room dwelling.

Owner and Builder—H. Anderson, 2850
School St., Oakland.
Architect—None. \$1500

ALTERATIONS

(943) 406 HAIGHT AVE., ALAME-
DA; alterations.
Owner and Builder—S. J. Gray, 403
Central Ave., Alameda.
Architect—None. \$1000

ALTERATIONS

(946) 720 PARKER ST., BERKE-
LEY; alterations to class C fac-
tory.
Owner—The Cutter Laboratory, prem-
ises.
Architect—None.
Contractor—A. E. Schmidt, 720 Ray
Bldg., Oakland. \$12,000

ADDITION

(947) 305 LONGRIDGE ROAD, OAK-
LAND; addition.
Owner—L. E. Armstrong, 895 Long-
ridge Road, Oakland.
Architect—None.
Contractor—C. M. Andersen, 1853 9th
Ave., Oakland. \$1000

DWELLING

(948) W ALLSTON 500 N Acacia,
OAKLAND; two-story six-room
dwelling.
Owner—G. F. Placke, 6049 Claremont
Ave., Oakland.
Architect—Swartz & Ryland, Monte-
rey.
Contractor—C. H. Thrums, 28 Home
Place West, Oakland. \$9600

DWELLING

(948) NO. 801 LEE AVE., SAN LE-
ANDRO. Seven-room frame and
stucco dwelling.
Owner—P. B. Weaver.
Architect—S. B. Hood, 710 Lee Ave.,
San Leandro.
Contractor—P. B. Weaver, 4683 San
Sebastian Ave., San Leandro. \$6900

STORE

(949) NO. 245 DAVIS ST., SAN
LEANDRO. One-story brick store
Owner—Goodchaux Estate.
Architect—E. W. Cannon, 51 Echo
Ave., Piedmont.
Contractor—C. D. Vezey & Son, 3220
Sacramento St., Berkeley. \$6085

DWELLING

(950) WOODLAND AVE., Bet. Hass
and Begier Sts., SAN LEANDRO.
Six-room frame and stucco dwell-
ing.
Owner—L. A. Bond, Sunny Side Dr.,
San Leandro.
Architect—None.
Contractor—C. A. Gosset, 327 Davis
Court, San Leandro. \$5500

BUILDING CONTRACTS

Alameda County

128 Regents	Symon	800
134 Southern	Boiler	5349
135 Kaiser	Schuler	37669
136 King	Courtright	1108

STACK

(134) FRUITVALE Power House,
Oakland; replacing portion of steel
stack on power house.
Owner—Southern Pacific Company.
Architect—None.
Contractor—Boiler Tank & Pipe Co.,
876 75th Ave., at E 10th St., Oak-
land.
Filed July 25, '30. Dated July 17, '30.
Monthly 75%
Usual 35 days..... Balance

TOTAL COST, \$5349
Bond, \$5349. Sureties, U. S. Guar-
antee Co. Limit, 21 days. Plans and
Spec. filed.

LOADING PLANT

(139) AT RADUM near Livermore
All work for gravel washing,
screening and loading plant
Owner—Kaiser Paving Co., 1522
Lotham Square Bldg., Oakland.
Architect—None.
Contractor—Schuler & McDonald, Inc.
Filed July 26, '30. Dated July 23, '30.
5th and 20th of each month 75%
Usual 35 days..... Balance

TOTAL COST, \$37,669
Bonds Labor and materials, \$37,669
performance, \$37,669. Surety, Com-
mercial Casualty Co. Limit, 60 days
Forfeit, plans and specifications, none

ALTERATIONS

(136) NO. 1065 ASHMOUNT AVE.,
Piedmont. All work for altera-
tions and additions to dwelling.
Owner—Mrs. C. H. King, Premises.
Architect—Miller & Varnecke, Fi-
nancial Center Bldg., Oakland.
Contractor—T. D. Courtright.
Filed July 29, '30. Dated July 29, '30
When plastered \$554
When accepted 277
Usual 35 days..... 277

TOTAL COST, \$1108
Bond, none. Limit, 30 days. Forfeit,
none. Plans and specifications filed.

CONTRACTOR'S BOND

ALAMEDA COUNTY

July 25, 1930—Emilia A Belgrano,
owner, John J Moore & Co, Con-
tractor. Central West Casualty Co of
Detroit, surety.....\$17,890

COMPLETION NOTICES

Alameda County

Recorded Accepted
July 26, 1930—W WEBSTER ST.
near entrance to Posey Tube,
Alameda, San Francisco Bay Air-
drome, Inc to Lindgren & Swin-
erton, Inc.....July 24, 1930
July 26, 1930 — PLEASANTON.
Southern Pacific Co to Hutchin-
son Co.....July 18, 1930
July 26, 1930—LOT 27 BLK J, Du-
rant Manor, Oakland. Theodore
Hackbarth to whom it may con-
cern.....July 25, 1930
July 26, 1930—NO. 1723 MILVIA
St., Berkeley. William F.
and Augusta O Roth to Albin Leino
.....July 18, 1930
July 26, 1930—LOT 42 BLK 3, Thous-
and Oaks Heights, Berkeley.
Ethelwyn Wing to O C Armstrong
and George D Gates.....July 12, 1930
July 25, 1930—LOTS 10, 11, 12, 13,
14, 15 and W 20 ft Lot 16, map
of the Benton Property, Berkeley
International House (a corp.) to
Latourrette-Fical Co.....July 15, 1930
July 25, 1930—LOTS 10, 11, 12, 13,
14, 15 and W 20 ft Lot 16, map
of the Benton Property, Berkeley.
International House (a corp.) to
Malott & Peterson; NePage-Mc-
Kenny Co; Cyclops Iron Works (2
completions).....July 15, 1930
July 25, 1930—NW MONTGOMERY
St 249-95 ft NE of Ridgeway Ave
Oakland. Harry Schuster to whom
it may concern July 22, 1930
July 25, 1930—LOT 14, Avenue Ter-
race, Oakland. Alton R Lapham
to whom it may concern July 25, 1930
July 25, 1930—3268 GOLDEN GATE
Ave, Oakland. Ralph L Olivi to
whom it may concern. July 19, 1930
July 25, 1930—LOT 28 BLK 20, map
of Blocks 20, 21, 22, 23 and 24,
Thousand Oaks, Berkeley. O M
French to Self.....July 24, 1930
July 25, 1930—S CHANNING WAY
62-20 ft W of California St, Berke-
ley, Charles Tammi to whom it
may concern..... July 24, 1930

July 23, 1930—CASTLEWOOD Country Club, near Pleasanton. Castlewood Country Club to F C Stoitte..... July 14, 1930

July 24, 1930—LOT 34 BLK G, Claremont Mines, Oakland. Sadle M Hunter to Matthew Hunter..... July 23, 1930

July 23, 1930—ON PTY of Manuel R Ferreira. State Highway bet. Hayward and Niles. Dept of Public Works, Division of Highways, State of California to Rufus Gonzales..... July 18, 1930

July 23, 1930—LOTS 43 and 44 BLK 26, map No 6 of Regents Park, Albany. Gussie Hunter to whom it may concern..... July 18, 1930

July 26, 1930—LOT 11 and PTN Lot 12 Blk 1, Clifton Park, Oakland. Lloyd R Riser to Fred T Dooley..... July 25, 1930

July 26, 1930—CAMPUS OF UNIVERSITY of California, Berkeley. The Regents of the University of California to Phoenix Day Co..... July 24, 1930

July 26, 1930—SE EIGHTY-SECOND Ave and Hillside St., Oakland. Henry McCarrick to H Allen..... July 19, 1930

July 23, 1930—LOT 1 BLK 4, Shaw Tract, Berkeley. Edw and Edith O Faucett to F W Thacker..... July 21, 1930

July 23, 1930—1163 SANTA FE Ave, Albany. Marcus A Peel to whom it may concern..... July 24, 1930

LIENS FILED

ALAMEDA COUNTY

Recorded	Amount
July 23, 1930—E VALDEZ ST 220 ft N of 24th St, etc, Oakland. McGrath Steel Co vs Tillie R Spear, E Flenner.....	\$2312.55
July 23, 1930—E LINE VALDEZ 220 ft 24th St, Oakland. Maxwell Hdw Co, \$35.20; Tilden Mill & Lbr Co, \$275.65, vs Tillie R Spear and E Flenner.....	
July 28, 1930—5406 PRINCETON ST, Oakland. Chris Blome vs James J and Rose Whitaker.....	\$49

RELEASE OF LIENS

ALAMEDA COUNTY

Recorded	Amount
July 24, 1930—PTN OF THAT CTN 267-46 acre piece of land first described in deed from John H Spring et al to The Realty Syndicate June 2, 1909 and recorded in Vol 1610 of Deeds page 123, Oakland. Aladdin Heating Corp to James N and Rose J Bostick, Paul J Peters, R S Booth.....	\$135.51

BUILDING CONTRACTS

SANTA CLARA COUNTY

SCHOOL

COR. SECOND AND MISSION Sts., San Jose. Excavation and grading, concrete work, structural steel brick work, carpentry and mill work for San Jose Junior High School.

Owner—San Jose High School District of Santa Clara County.

Architect—John J. Donovan, 1916 Broadway, Oakland.

Contractor—W J. Ochs, American Trust Bldg., San Jose.

Filed July 23, '30. Dated June 5, '30.

As work progresses..... 75%

Usual 35 days..... 25%

TOTAL COST, \$179,343

Bonds, (2) \$89,672 each. Surety, American Surety Co. of New York. Limit, not later than March 2, 1931. Forfeit, none. Plans and specifications, filed.

SHEET METAL WORK ON ABOVE

Contractor—Wm. Ehlers, 954 The Alameda, San Jose.

Filed July 23, '30. Dated June 10, '30.

Payments same as above.....

TOTAL COST, \$11,805.80

Bonds (2) \$5992.90 each. Surety, Globe Indemnity Co. Limit, not later than Dec. 1, 1930. Forfeit, none. Plans and specifications filed.

HEATING AND VENTILATING ON ABOVE.

Contractor—Pacific Heating & Ventilating Co., 354 Hohart St., Oakland.

Filed July 23, '30. Dated June 9, '30.

Payments same as above.....

TOTAL COST, \$23,270

Bonds (2) \$11,635 each. Surety, not later than Jan. 3, 1931. Forfeit, none. Plans and specifications filed.

LATHING AND PLASTERING ON ABOVE.

Contractor—S. Greenback.

Filed July 23, '30. Dated June 12, '30.

Payments same as above.....

TOTAL COST, \$23,500

Bonds (2) \$11,750 each. Surety, United States Fidelity & Guaranty Co. Limit, not later than Jan. 3, 1931. Forfeit, none. Plans and specifications filed.

TILE AND TRAVERTINE WORK ON ABOVE.

Contractor—Rigney Tile Co., 666 Mission St., San Francisco.

Filed July 23, '30. Dated June 13, '30.

Payments same as above.....

TOTAL COST, \$7147

Bonds (2) \$3573.50 each. Surety, Standard Accident Insurance Co. Limit, not later than Jan. 3, 1931. Forfeit, none. Plans and specifications filed.

ELECTRICAL WORK ON ABOVE.

Contractor—Guilbert Bros. Electric Co., 286 W-Santa Clara St., San Jose.

Filed July 23, '30. Dated June 9, '30.

Payments same as above.....

TOTAL COST, \$8092

Bonds (2) \$4046 each. Surety, Commercial Casualty Insurance Co. Limit, not later than Feb. 2, 1930. Forfeit, none. Plans and specifications filed.

GLASS AND GLAZING ON ABOVE.

Contractor—Cobbledick Kibbe, 666 Howard St., San Francisco.

Filed July 23, '30. Dated June 10, '30.

Payments same as above.....

TOTAL COST, \$2447

Bonds (2) \$1223.50 each. Surety, Globe Indemnity Co. Limit, not later than Jan. 10, 1931. Forfeit, none. Plans and specifications filed.

ARCHITECTURAL METAL WORK ON ABOVE.

Contractor—R. Hellwig's Iron Works, 407 Vine St., San Jose.

Filed July 23, '30. Dated July 12, '30.

Payments same as above.....

TOTAL COST, \$2359

Bonds (2) \$1179.50 each. Surety, Glens Falls Indemnity Co. Limit, not later than Jan. 3, 1931. Forfeit, none. Plans and specifications filed.

WINDOW SHADES ON ABOVE.

Contractor—McKenley-Glans Furniture Co., 88 E-Santa Clara St., San Jose.

Filed July 23, '30. Dated June 10, '30.

Payments same as above.....

TOTAL COST, \$1111.70

Bonds (2) \$555.85 each. Surety, Globe Indemnity Co. Limit, not later than Jan. 31, 1931. Forfeit, none. Plans and specifications filed.

PAINTING WORK ON ABOVE.

Contractor—Patterson Bros.

Filed July 23, '30. Dated June 9, '30.

Payments same as above.....

TOTAL COST, \$9300

Bonds (2) \$4650 each. Surety, Glens Falls Indemnity Co. Limit, not later than Jan. 31, 1931. Forfeit, none. Plans and specifications filed.

TILE, COMPOSITION ROOFING and dampproofing on above.

Contractor—W. J. Porter, 1229 W-San Carlos St., San Jose.

Filed July 23, '30. Dated June 9, '30.

Payments same as above.....

TOTAL COST, \$5548

Bonds (2) \$2774 each. Surety, Indemnity Insurance Co. of North America. Limit, not later than Nov. 2, 1930. Forfeit, none. Plans and specifications filed.

FINISH HARDWARE ON ABOVE.

Contractor—San Jose Hardware Co., 56 W-San Fernando St., San Jose

Filed July 23, '30. Dated June 19, '30.

Payments same as above.....

TOTAL COST, \$5007

Bonds (2) \$2503.50 each. Limit, not later than Oct. 10, 1930. Forfeit, none. Plans and specifications filed.

PLUMBING WORK ON ABOVE.

Contractor—A. J. Peters & Son, 455 E-Washington St., San Jose.

Filed July 23, '30. Dated June 9, '30.

Payments same as above.....

TOTAL COST, \$21,667

Bonds (2) \$10,833.50 each. Surety, The Fidelity & Casualty Co. of New York. Limit, not later than Jan. 3, 1931. Forfeit, none. Plans and specifications filed.

SCHOOL SITE OF ROOSEVELT JUNIOR

High School, San Jose. Furnish and install all glass and glazing for school.

Owner—S. Jose High School District of Santa Clara County.

Architect—W. H. Weeks, 111 Sutter St., San Francisco; 1736 Franklin St., Oakland, and Bank of Italy Bldg., San Jose.

Contractor—S. L. Diet and R. French (as Garden City Glass Co.), 451 S-First St., San Jose.

Filed July 23, '30. Dated June 27, '30.

As work progresses..... 75%

Usual 35 days..... 25%

TOTAL COST, \$1842

Bonds (2) \$921 each. Surety, The Fidelity & Casualty Co. of New York. Limit, 15 working days after notice to proceed with work. Forfeit, none. Plans and specifications filed.

ERECT AND COMPLETE TWO

wings to main building and erect and complete gymnasium for Roosevelt Junior High School, all according to Proposition No. 1 in Notice to Bidders in General Specifications and in accordance with bid submitted.

Contractor—E. Nommensen, 28 N-First St., San Jose.

Filed July 23, '30. Dated July 15, '30.

Payments same as above.....

TOTAL COST, \$116,171

Bonds (2) \$58,085.50 each. Surety, National Surety Co. Limit, 200 working days after July 15, 1930. Forfeit, none. Plans and specifications filed.

FURNISH AND INSTALL ALL

sheet metal work on above.

Contractor—Superior Metal Products Co., Inc., 4400 Market St., Oakland.

Filed July 23, '30. Dated June 27, '30.

Payments same as above.....

TOTAL COST, \$4258

Limit, 60 working days after notice to proceed with contract. Forfeit, none. Plans and specifications filed.

notice to proceed with contract
Forfeit, none. Plans and specifications filed.

San Francisco

Bond, \$5024.50. Surety, Commercial Casualty Co. Limit, as required. Forfeit, \$25. Plans and specifications filed.

ELEVATOR ON ABOVE.

Owner—Pacific Elevator & Equipment Co., 45 Rausch St., San Francisco.

Filed July 23, '30. Dated July 21, '30. Payments same as above.

TOTAL COST, \$6530

Bond, \$3265. Surety, Union Indemnity Co. Limit, as required. Forfeit, none. Plans and specifications filed.

PLUMBING, SEWERING AND GAS fitting on above.

Contractor—Scott Co., 243 Minna St., San Francisco.

Filed July 23, '30. Dated July 21, '30. Payments same as above.

TOTAL COST, \$19,904

Bond, \$9952. Surety, New Amsterdam Casualty Co. Limit, as required. Forfeit none. Plans and specifications filed.

BUILDING PERMITS

SAN MATEO

RESIDENCE, \$3000; Lot 21 Blk 17, S Delaware St., San Mateo; owner and contractor, Charles D. Ellis, 123 2nd Ave., San Mateo.
RESIDENCE, \$5000; No. 711 Fifth Ave., being Lot 9 Blk 30, San Mateo; owner and contractor, Joe Ballouf, 705 5th Ave., San Mateo.

BUILDING PERMITS

BURLINGAME

MINIATURE golf course, \$3000; Lots 4, 5 and 6 Blk 6, Lorton St., Burlingame; owner and contractor, Jack M. Wigal.
BUNGALOW, \$6500; Lot 50 Blk 6, B. H. Hall, Burlingame; owner and contractor, Buchanan & Jackson.

BUILDING PERMITS

SAN JOSE

RESIDENCE, 5-room frame, \$4750; McDaniel Ave., near Park St., San Jose; owner and contractor, Wm. H. O'Neil, 1500 McDaniel Ave., San Jose.

ALTER for heating plant, \$6800; Julian and Terraine Sts., San Jose; owner, San Jose School Department, San Fernando St. at Sixth St., San Jose; contractor, San Jose Heating Co., Gummer Arcade Bldg., San Jose.

ALTER Class C business building, \$3000; No. 79-81 S. First St., San Jose; Jesse, Leon Jacobs et al. 275 S. Fourteenth St., San Jose; contractor, Wm. M. Caldwell, 1241 Hedding St., San Jose.

RESIDENCE, 5-room frame, \$2900; Sixth St. near Keyes St., San Jose; owner, Frank Terra, Milpitas; contractor, A. P. Vargas, 421 N-Eighth St., San Jose.

RESIDENCES (2) 6-room frame, \$5125 each; McDaniel Ave. near Park St., San Jose; owner, and contractor, Wm. H. O'Neil, 1500 McDaniel Ave., San Jose.

BUSINESS building, 3-story concrete Class A, \$300,000; First and San Carlos Sts., San Jose; owner, Hale Bros., 140 S-First St., San Jose, and 5th and Market Sts., San Francisco; architect, Binder & Curtis, 35 W-San Carlos St.,

San Jose; contractor, Dinwiddle Constr. Co., 1101 Crocker Bldg., San Francisco.

BUILDING PERMITS

PALO ALTO

DWELLING, frame and stucco, \$6000 No. 2377 Ramona St., Palo Alto; owner, Frances E. Dowdy; contractor, House & Osmonson, 156 University Ave., Palo Alto.

RESIDENCE, frame and stucco, \$5000 No. 2220 Ramona St., Palo Alto; owner, Alfred Johnson, 275 Santa Rita Ave., Palo Alto

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded Accepted
July 21, 1930—LOT 21 BLK 24, Belmont. Albert Lone to whom it may concern. July 19, 1930
July 22, 1930—LOT 51, Peninsula Manor, San Mateo. G. L. Smith et al to Joseph Fee. July 22, 1930
July 22, 1930—LOTS 12 AND 13 BLK 22, Crocker Tract, San Mateo. Lee Hager to whom it may concern. July 22, 1930
July 22, 1930—PART LOT 16 BLK 2, Menlo Oaks. Eric J Silva to Eric J Silva. July 21, 1930
July 22, 1930—LOT 3 BLK 25, Milbrae Highlands. Edmund J Hargrave to whom it may concern. July 17, 1930

July 23, 1930—LOT 38, Oak Knoll Heights, San Mateo. G A Stryker to whom it may concern. July 22, '30
July 23, 1930—PART LOT 56, Stanford Park, San Mateo. Clementine B Guernsey to Santa Clara Bldg Co. July 19, 1930
July 23, 1930—NE POPLAR AND C Sts., San Mateo. San Mateo Association for Prevention of Tuberculosis to G W Williams Co. July 18, 1930
July 24, 1930—PART VILLA LOT 12 Mezesville. James J Fagon to Guss Waller. July 21, 1930
July 24, 1930—DORCHESTER RD, San Mateo Park. H T Dupont to Max Hartzsche. July 17, 1930
July 25, 1930—LOT 45 BLK 4, San Bruno August Meurer to whom it may concern. July 22, 1930
July 25, 1930—LOT 44 BLK 4, San Bruno. Otto Lander to whom it may concern. July 22, 1930
July 25, 1930—PART LOTS 4, 5 & 6 Blk 36, Central Park, San Mateo. Louis Foss to Sam B Gars. July 18, 1930

LIENS FILED

SAN MATEO COUNTY

Recorded Amount
July 22, 1930—KATE JOHNSON Estate, Menlo Park. Merner Lumber Co vs J E Levy et al. \$1293 53
July 23, 1930—LOTS 12 AND 13 BLK 27, City of Visitation. F W Eanks et al vs Alice Blake. \$351.55

RELEASE OF LIENS

SAN MATEO COUNTY

Recorded Amount
July 21, 1930—LOCATION NOT Given. George W Martin to whom it may concern. July 19, 1930
July 23, 1930—PART LOTS 3 AND 4 Blk 9, Burlingame Land Co Steelform Co, \$421; San Mateo Feed & Fuel Co, \$— to J K Moore et al

COMPLETION NOTICES

SANTA CLARA COUNTY

Recorded Accepted
July 19, 1930—LOT 19 BLK 8, Los Gatos Park. Francis J Mallet et al to whom it may concern. July 18, 1930
July 21, 1930—LOT 6 BLK 5, Claremont Subd., San Jose. Robert Laroeca to whom it may concern. July 21, 1930
July 21, 1930—LOTS 35 AND 36 and part Lot 34, Spaulding Garden Tract also part Lots 25 to 31, also Lot 17 Blk 1, John R Chase Garden Villa Lots, San Jose. Garden Valley Canning Co to whom it may concern. July 19, 1930
July 22, 1930—S ½ LOTS 52, 53 and 54, Sanderson Garden Tract, San Jose. Frank Canilla et al to whom it may concern. July 19, 1930
July 22, 1930—LOT 23 BLK 2, French Residence Park, San Jose. Edward A Slough et al to whom it may concern. July 21, 1930
July 23, 1930—3.75 ACRE ON LOS Gatos and Saratoga Road. Muriel Helen McCants to whom it may concern. July 22, 1930
July 23, 1930—LOTS 20 AND 21 BLK 9, Morris & Greenwood Subd., Palo Alto. R M Sullivan to whom it may concern. July 18, 1930
July 23, 1930—S STATE HIGHWAY Old Mt. View. V Manfredi to whom it may concern. July 21, 1930
July 24, 1930—SE DAVIS ST. 120 SW Chapman St., San Jose. T L Hubbard to whom it may concern. July 22, 1930

LIENS FILED

SANTA CLARA COUNTY

Recorded Amount
July 22, 1930—LOT 45 SUBD. OF Blk 100, Palo Alto. Tilden Lumber & Mill Co, \$662 07; Merner Lumber Co, \$23.63; Merner Lumber Co, \$225 vs Harry L Sandow Inc. July 18, 1930
July 23, 1930—LOT 45 SUBD. OF Blk 100, Palo Alto. Sunset Lumber Co vs Harry L Sandow. Inc. \$214
July 23, 1930—LOT 13 BLK 12, Evergreen Park, Palo Alto. John L Ingram vs A W and Mary E Hausch. \$750

RELEASE OF LIENS

SANTA CLARA COUNTY

Recorded Amount
July 21, 1930—LOT 12 BLK C Vista Grand Subdivision No 1, San Jose. Alfred Lindquist to C S Henderson. \$392
July 22, 1930—17.164 ACRE ON E White Road 13,36 chs N Story Road, San Jose. Glenwood Lumber Co; Henry Ribbs to Angelina Canilla. July 19, 1930
July 24, 1930—SW FULTON 50 SE Everett SE 50xSW 100 Part Subd 19 Blk 48, J S Lakin, Subd., Palo Alto. Jas H Daly to Sigrid Stevenson

BUILDING CONTRACTS

MARIN COUNTY

DWELLING
MARIN HEIGHTS. All work for dwelling.
Owner—W. C. Foster.
Architect—None.
Contractor—R. D. Hood, 10 Miller Ave., Mill Valley.

Filed July 19, '30. Dated July 18, '30.	
Frame up	1/4
Plastered	3/4
Accepted	3/4
Usual 35 days	3/4
TOTAL COST, \$3100	
Bond, none. Limit, October 31, 1931.	
Forfeit, none. Plans and specifications filed.	

RESIDENCE

ROSS. All work for one-story residence.

Owner—Helen T. Austin.

Architect—None.

Contractor—R. Leonhart, 56 Tamalpais Ave., San Anselmo.

Filed July 17, '30. Dated July 16, '30.	
Lumber on ground	\$608.75
Building enclosed	680.75
Completed and accepted	680.75
Usual 35 days	680.75
TOTAL COST, \$2723.00	
Bond, none. Limit, 60 days. Forfeit, none. Plans and specifications filed.	

COMPLETION NOTICES**MARIN COUNTY**

Recorded	Accepted
July 23, 1930—FAIRFAX. Georgia R. Graces to whom it may concern.	
June 30, 1930	
July 23, 1930—ROSS. Mr and Mrs Jos Stewart to Otis H Smith.	
July 23, 1930	

RELEASE OF LIENS**MARIN COUNTY**

Recorded	Amount
July 25, 1930—MARINA Highlands, San Rafael. Ben Johnson, C H Vantrease, San Rafael Mill and Lumber Co, Henry Hess Co, Jas Ghilotti, Michel & Pfeffer, L M Black, Weik Bros, E W Riggs and San Anselmo Lumber Co to Ralph C Brehl	

BUILDING CONTRACTS**CONTRA COSTA COUNTY**

DWELLING	
LOTS 129 and 132, Unit No 2, Haciendas del Orinda; all work on 2-story, basement and garage frame dwelling.	
Owners—Mr. and Mrs. Chas. P. Hubbard, Orinda.	
Architect—None.	
Contractor—James E. Sullivan, Orinda	
Filed and Dated July 28, 1930.	
When frame is up	\$3072
1st coat of plaster	3072
On completion	3072
Usual 35 days	3072
TOTAL COST, \$12,288	
Limit, 90 working days after Aug. 1, 1930. Plans and Spec. filed.	

COMPLETION NOTICES**CONTRA COSTA COUNTY**

Recorded	Accepted
July 28, 1930—PTN LOT 2 BLK R, town of Todos Santos. E F Seaward to whom it may concern.	
July 26, 1930	
July 25, 1930—W 20 FT LOT 4 and E 20 ft of lot 5 in Blk 37, Antioch. George Z Smith to whom it may concern.	
July 24, 1930	

July 22, 1930—TWO PARCELS IN Rancho Los Medanos. California Water Service Co to Ben C Gerwick. Inc.	
July 19, 1930	
July 22, 1930—LOT 8 BLK C, Schmidt Village. Josephine Ely to Fred Ely	
July 19, 1930	
July 24, 1930—LOT 20 AND S 1/2 Lot 19 Blk 24, Walls Harbor. Mercantile Building & Loan Associa-	

tion to whom it may concern.	July 19, 1930
July 21, 1930—CROCKETT. Southern Pacific Co to Hutchinson Co (grade for oil macadam).	
July 8, 1930	
July 21, 1930—RICHMOND. Southern Pacific Co to Hutchinson Co. (installing and repairing roads)	
July 18, 1930	
July 24, 1930—LOT 12 BLK 27, Richmond Annex. Etta L and H A Sammet to Alice Donaldson	
July 18, 1930	

LIENS FILED**CONTRA COSTA COUNTY**

Recorded	Amount
July 26, 1930—N HALF OF LOTS 7 and 8 in Blk 77, Original Survey. Martinez, Manuel De Silva vs Serafina Gabellini.	\$55
July 26, 1930—W HALF OF LOTS 7 and 8 Blk 77, Original Survey. Martinez, A A McMahon vs J D DeSilva, Jr, L Rossi and S Gabellini	\$71.75
July 26, 1930—PTN BLKS 25 and 26, Sunnyside Terrace Exten. V G Blake, doing business as V G Elec Co vs Martinez Hospital Assn, owner, and Wallace Snelgrove, general contractor	\$954.53
July 22, 1930—W 1/2 LOTS 7 AND 8 Blk 77, Original Survey, Martinez. Louis Rossi vs J D DeSilva Jr and S Gabellini	\$340
July 22, 1930—N 1/2 LOTS 7 AND 8 Blk 77, O. S. Martinez. John De Silva Sr vs Serafina Gabellini.	\$172
July 22, 1930—W 1/2 LOTS 7 AND 8 Blk 77, O. S. Martinez. Diamond Match Co vs J D DeSilva Jr; L Rossi and S Gabellini.	\$222.33

LIENS FILED**SONOMA COUNTY**

Recorded	Amount
July 22, 1930—1/2 MILE S OF Geyserville on Redwood Highway. A F Stevens Lumber Co vs J W McAllister and William A Blake	\$588.76
July 25, 1930—FITCH MOUNTAIN near Healdsburg. Guy Rose; Fred Stevenson (as Rose & Stevenson) vs Thomas Seoble and Del Rio Properties, Inc.	\$887.54

BUILDING CONTRACTS**MONTEREY COUNTY**

DWELLING	
LOT 3 BLK 164, Carmel Woods, Carmel; one-story dwelling.	
Owners—Gabriel and Mary B. Burnette, Carmel.	
Architect—Not Given.	
Contractor—Hugh W. Comstock, Carmel.	
Filed July 25, '30. Dated July 21, '30.	
On completion	90%
Usual 35 days	10%
TOTAL COST, \$3600.53	
Limit, 50 working days. Spec. filed.	

COMPLETION NOTICES**MONTEREY COUNTY**

Recorded	Accepted
July 24, 1930—LOTS 16 AND 18 Blk 2, Map Sunshine Park Tract. Monterey. W G O'Bryan to H R O'Bryan.	
July 23, 1930	
July 25, 1930—S SIDE 17 MILE Drive, Pebble Beach. W W Holt to Mattock & Peasey.	
July 17, 1930	
July 28, 1930—CASTROVILLE. Lucia Franco to Carl N Svenson	
July 18, 1930	

July 29, 1930—LOT 6 map Park Addition No 1 J Frank Laughton to whom it may concern	July 29, 1930
July 29, 1930—LOT 22 BLK 26, map of Kellogg and Eckhard Addn to Salinas, also 5 acre tract on the SE corner of J D Cochran tract. Donald A and Agatha Graham to H B Mohr	July 21, 1930

LIENS FILED**MONTEREY COUNTY**

Recorded	Amount
July 25, 1930—LOTS 1 AND 2 BLK 3, Homestead Addition to Salinas City Tynan Lumber Co. \$104.08; Salinas Planning Mill. \$121.05; M P McGuire, \$327 vs Joseph Scarpa	

BUILDING PERMITS**MARTINEZ**

RESIDENCE, 4-room, stucco, \$2500; Lots 5 and 6 Blk 18, Arriba and Willow Sts., Martinez; owner, V. E Carter; contractor, Joseph L Granquist, 2533 13th Ave., Oakland.	
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BUILDING PERMITS**STOCKTON**

REMODEL building and install elevator, \$6000; No. 540 E-Market St., Stockton; owner, Record Publishing Co., Premises; contractor, J. A. Allen, 525 E-Market St., Stockton.	
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BUILDING CONTRACTS**SAN JOAQUIN COUNTY**

ADDITION	
WEST PARK Grammar School, Tracy; all work on 2-story brick addition to manual training room, paint shop and tool rooms, etc.; also solarium or rest room.	
Owner—Tracy Grammar School Dist.	
Architect—None.	
Contractor—Samuel Eyre, 57 W 10th St., Tracy.	
Filed July 25, '30. Dated July 28, '30. Limit, 35 working days.	

COMPLETION NOTICES**SAN JOAQUIN COUNTY**

Recorded	Accepted
July 23, 1930—LOT 11 BLK 2, Map of North Oaks. James E Mahin to whom it may concern	
July 19, 1930	
July 22, 1930—LOT 11 BLK 210 E of Center St. and located at SW Corner Wilson Way and Oak St., Stockton. Texas Co to J A Allen	
July 12, 1930	

LIENS FILED**SAN JOAQUIN COUNTY**

Recorded	Amount
July 25, 1930—W HALF OF SW 1/4 of the SE 1/4 of Sec 6 T 2 S R 8 E and the W 1/2 of the E 1/2 of the SW 1/4 of the SE 1/4 of Sec 6 T 2 S R 8 E. Hayward Lbr and Inv Co vs A B Dentz	\$84.89
July 29, 1930—E 43.75 ACRES of the W 1/2 74 acres of the N 1/2 of the NW 1/4 of Sec 2 6 T 1 S R 6 E. Hayward Lbr & Inv Co vs A L D's R's	\$272.15

BUILDING PERMITS

SACRAMENTO

SERVICE Station, \$7562; 3800 J St. Lot A Tuller Tract; owner, The Texas Co., Sacramento; contractor, J. A. Saunders, 1045 45th Street, Sacramento.

RESIDENCE, 5-room, \$1500; No. 1833 51st St., Sacramento; owner, A. C. Kendrick, 1611 12th St., Sacramento; contractor, C. C. Ruby, 4800 T St., Sacramento.

RESIDENCE, 6-room, \$4000; No. 1025 Santa Ynez Way, Sacramento; owner, Eleanor Bennett, 1025 46th St., Sacramento; contractor, F. Richards, Hagginwood, Sacramento.

RESIDENCE, 6-room, \$1400; No. 5132 J St., Sacramento; owner, Joseph Pesce, 5209 Folsom Blvd., Sacramento.

COMFORT stations (2) \$5250; Curtis Park and McKinley Park, Sacramento; owner, C. J. Hopkinson, 1810 25th St., Sacramento.

WOOD shed, \$4500; No. 4330 8th Ave., Sacramento; owner, C. J. Junior, Premises

REPAIRS, general, \$2500; 1300 I St.; owner, Moeller Auto Sales, 1300 I St., Sacramento; contractor, P. W. Moore, 1500 15th St., Sacramento.

APARTMENT house, \$22,500; 1620-22 P St.; owner and builder, Charles Mackrell, 1517 17th St., Sacramento.

COMPLETION NOTICES

SACRAMENTO COUNTY

Recorded Accepted
 July 23, 1930—N 20 FT LOT 5, M, N, 3rd and 4th Sts., Sacramento. James Chikuda to whom it may concern..... July 1, 1930

July 23, 1930—S 1/4 LOTS 25 AND 26 T St. Addn, Sacramento. Esther C and Herbert C Brush to whom it may concern..... July 10, 1930

July 21, 1930—PART LOT 3 BLK 41, Sub No. 8, Sacramento. Mrs. Emma C Spaulding and Mrs. Ida H Hume to whom it may concern..... July 18, 1930

July 21, 1930—N 55 FT. LOT 1942 and S 5 ft. Lot 1941 W, & K Tract, Sacramento. F A Reichert to whom it may concern..... July 19, 1930

LIENS FILED

SACRAMENTO COUNTY

Recorded	Amount
July 26, 1930—BUTLER TRACT, Sacramento. C U Martin versus Golden State Asparagus Co.	\$1000
July 29, 1930—LOT 7 W & K Sub 34. Geo W Townsend vs Julia and George Bergh.	\$271

BUILDING PERMITS

FRESNO

PUMP house, \$3000; Air Port, Fresno owner, The Texas Co.

OFFICIAL PROPOSALS

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received by the Department of Public Works, Division of Highways, at the office of the District Engineer, Dis-

trict IV, Room 211 State Building, San Francisco, California, until 3 P. M. on Monday, August 4th, 1930, at which time they will be publicly opened and read, for performing work as follows:

Alameda County (IV-Ala-5-B), between Dublin and Hayward, perforated metal pipe underdrain to be furnished and installed.

Plans may be seen, and forms of proposal, bonds, contract and specifications may be obtained at the above address.

No bid will be received unless it is made on a proposal form furnished by the District Engineer. Each bid must be accompanied by a cash or a certified or cashier's check made payable to the Director of Public Works, for an amount equal to at least ten (10) per cent of the amount bid, such guaranty to be forfeited should the bidder to whom the contract is awarded fail to enter into the contract.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

DEPARTMENT OF PUBLIC WORKS, DIVISION OF HIGHWAYS.

C. H. PURCELL,

State Highway Engineer.

By JNO. H. SKEGGS,

District Engineer, Dist. IV.

Dated: July 24th, 1930.

(July 26; Aug. 2)

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received by the Department of Public Works, Division of Highways, at the office of the District Engineer, 502 State Office Building, Sacramento, California, at 2:00 o'clock P. M., on August 11, 1930, at which time they will be publicly opened and read, for

performing work as follows:

Placer County, between Roseville and Rocklin, (III-Pla-17-A), a distance of about two and nine-tenths (2.9) miles, bituminous surface treatment to be applied.

Plans may be seen, and forms of proposal, bonds, contract and specifications may be obtained at the above address.

No bid will be received unless it is made on a proposal form furnished by the District Engineer. Each bid must be accompanied by cash, or a certified check made payable to the Director of Public Works, for an amount equal to ten (10) per cent of the amount bid, such guaranty to be forfeited should the bidder to whom the contract is awarded fail to enter into the contract.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

DEPARTMENT OF PUBLIC WORKS, DIVISION OF HIGHWAYS.

C. H. PURCELL,

State Highway Engineer.

By C. H. WHITMORE,

District Engineer, Dist. III.

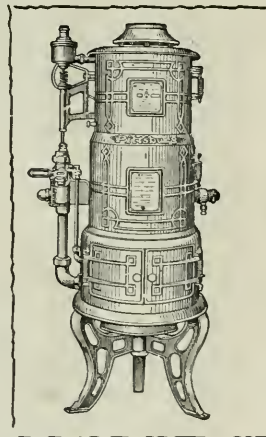
Dated: July 28, 1930.

LABOR LEADERS DECIDE TO CUT WORKING HOURS

A five-day week with working hours cut two hours was the agreement reached at the Washington State Federation of Labor convention held at Spokane last week, according to Geo. D. Earley, secretary of the Seattle Building Trades Council.

An effort was made to reduce the working day to six hours generally, but since some trades were working as high as 10 hours a day it was decided to cut two hours from the present day. Thus, 10-hour days will be cut to eight, and eight-hour days to six.

Earley said trades in Seattle would not be immediately affected since the question was one for negotiation with employers.



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BUILDING *and* ENGINEERING NEWS

Publication Office
547 Mission Street

SAN FRANCISCO, CALIF., AUGUST 9, 1930

Thirtieth Year, No. 32
Published Every Saturday



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Devoted to the Architectural, Building, Engineering and Industrial Activities on the Pacific Coast

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Building and Engineering News will be sent to subscribers until ordered stopped and all orders to discontinue must be sent in writing to this office.

THIRTY DAYS OR \$100 BUCKS FINE—NO STATE LICENSE

"Those persons who regard the contractors' registration law of California as perfunctory, or merely a gesture on the part of the lawmakers of the state, will please take note of the conviction of a plumbing contractor of Beverly Hills who failed to comply with it," says Southwest Builder and Contractor. "A fine of \$100 or thirty days in jail was the punishment imposed by the Municipal Court of Los Angeles County upon the offending plumber. Sentence was suspended and the contractor was admonished by the court not to undertake any more contracts until he has secured a state license."

"This is the first prosecution undertaken for violation of the law. Perhaps the next offender will not be so lucky as to draw a suspended sentence. It should be a warning to any who think they can engage in the contracting business without a license and not be tripped up. The statute has been in effect now for almost a year and the Registrar of Contractors has given everyone amenable to its provisions an opportunity to comply with them. Many have been disposed to regard him as too lenient in his dealings with recalcitrants, but we are inclined to believe that his policy of persuasion has been more effective in creating a wholesome respect for the law than to have gone after all offenders roughshod."

"The chief purpose of the Contractors' Registration Law was to weed out the irresponsible and incompetent persons lured into the business by prospects of easy money and ready to take advantage of every opportunity to turn a dollar at the expense of the private owner or the public. This purpose has been achieved to a greater extent, we believe, than even the most optimistic regarded as possible at the outset. A millenium has not been created by the statute, but the results of the first year's operation have been so satisfactory to the construction industry and to the public that there has been no thought of anything except to strengthen some of the weak points that have developed so that there may be no loophole for anyone to evade his responsibility."

Simplified practice recommendations on Structural, Roofing and Blackboard Slate have been reaffirmed, by their respective standing committees of the industry, without change, for another year, according to a recent announcement by the Division of Simplified Practice of the Bureau of Standards, Department of Commerce. Surveys of the 1929 production of these commodities indicated that 64 per cent of the Structural Slate, and 95 per cent of both the Roofing and the Blackboard Slate, conformed to the simplified schedules.

STATE BUILDERS TO CONVENE AT RICHMOND

The annual convention of the California State Builders' Exchange will be held in Richmond, Contra Costa County, August 30, it is announced by Harry R. Cayford, secretary of the state organization.

The morning session will be called to order at 9:30 by P. M. Sanford of Richmond, president of the state body, and will be occupied chiefly with receiving reports from the various standing committees, such as Industrial Relations, Educational, Law and Legislative, Building Code and Finance.

During the afternoon session in short addresses will be heard. Time will also be allotted to open forum.

Officers of the California State Builders' Exchange are: P. M. Sanford of Richmond, president; Wm. T. Loesch of Pasadena, first vice-president; Dr. Geo. S. Plitcock of Berkeley, second vice-president; Harry R. Cayford of Fresno, secretary; Lou E. Webster of Los Angeles, treasurer; W. S. Fultz of Santa Barbara, sergeant-at-arms.

LASSEN LUMBER COMPANY CUTS WAGES

The Lassen Lumber & Box Company, operating at Susanville, cut the wages of all employees ten per cent on August 1.

Officials of the company announced that the wage slash affected all of the company's employees, to the number of approximately 200.

A statement accompanying the announcement of the reduction attributed the slash to depreciation of the lumber market.

The wage cut is the second to be announced by the lumber interests in California. The first was that of the Red River Lumber Company at Westwood, which put a 15 per cent wage cut in effect July 28.

Officials of the latter company stated that the wage cuts would be made generally by lumber companies on the Pacific Coast.

WEYERHAUSER LUMBER MILL REDUCES WAGES

The Weyerhaeuser Lumber Mills at Klamath Falls, Ore., one of the largest industries of its kind on the Pacific Coast, placed into effect its second wage cut this summer on Aug. 1.

The action of the Weyerhaeuser Co. follows similar action taken by the Lassen Lumber and Box Company in Susanville, and the Red River Lumber Company of Westwood.

All lumber mills in Klamath Falls are operating and some have put on ten-hour shifts. Several of the smaller logging companies in this vicinity have ceased operations until the lumber market improves.

The general feeling is that lumber will start moving more rapidly in October.

RED RIVER LUMBER CUTS WAGE SCALE 15%

Wages of 2,150 employees of the Red River Lumber Company at Westwood, Calif., in the various logging camps operated by the company, in the planing mill of the corporation at Reno, Nev., and in the lumber yards at Chicago, Minneapolis and Los Angeles, were reduced fifteen per cent on July 28.

The move is declared by officials of the company to be the forerunner of similar wage reductions to be made by all of the Pacific Coast lumber companies.

At Westwood the wage cut was accompanied by an order by the Red River Lumber Company reducing the cost of rent in the company's houses, and price reductions in the company's various mercantile and amusement enterprises in Westwood, from 15 to 20 per cent.

Under the new wage scale various classifications of labor employed by the lumber company and known generally as "common labor," will be paid at the rate of 30 cents an hour instead of 32½ cents an hour as formerly. Up to yesterday that classification of labor in Westwood was employed in an eight-hour-day basis for five days each week. Under the new order all labor will be employed 10 hours per day for six days each week.

JULY BUILDING IN SAN FRANCISCO REGISTERS \$1,086,936

Building construction undertaken in San Francisco during the month of July, 1930, involved an expenditure of \$1,086,936, according to figures compiled by John B. Leonard, superintendent of the Municipal Bureau of Building Inspection. Leonard's estimate is based on the building permits issued by his office. During July 484 permits were granted, of these 357 being for alterations and repairs costing \$133,322. The balance of the operations covered the erection of new structures.

July, 1929, operations called for the issuance of 575 permits for work costing \$3,973,981.

During the past seven months, Leonard reports 3,895 permits have been issued for improvements, aggregating an expenditure of \$15,635,765 as compared with 4,297 permits for the corresponding period in 1929 when the estimated cost of the improvements registered \$22,194,342.

Following is a segregated report of the July, 1930, activities:

Class	No. of Permits	Est. Cost
A	—	\$
B	2	67,000
C	11	130,375
Frames	112	536,495
Alterations	357	313,322
Public Bldgs.	2	39,644
Total	484	\$1,086,936

SURETY NOT RELIEVED BY FAILURE TO HOLD RETAINED PERCENTAGE, HIGH COURT RULES

If a retained percentage of the money involved in a contract is paid to the contractor contrary to its provisions, the surety company guaranteeing its completion is not released from its responsibility to finish the work in event of default or abandonment by the contractor, but is entitled to a credit of the amount that should have been retained. This ruling, says the Southwest Builder and Contractor, was made by the supreme court of the State of North Carolina in the case of J. L. Crouse vs. R. T. Stanley and Guy L. Dazey, trading as Stanley & Dazey, et al (No. 408, Supreme Court of North Carolina). The case presents some unusually interesting features set forth in the written opinion of the supreme court published herewith—Editor.

Statement of Facts Involved
The plaintiff is a contractor living in Guilford County, North Carolina, and on Nov. 1, 1917, made a contract to erect a high school in the city of Tampa, State of Florida.

The defendants were partners and engaged in the business of painting contractors.

On Nov. 1, 1927, the plaintiff entered into a contract with the defendants to the effect that the defendants would furnish all materials and perform all work necessary to complete the painting of the high school at Tampa, Fla. The contract price for said work was \$20,000 and required the giving of a surety bond to guarantee the faithful performance thereof. Thereupon, the defendants secured a bond from the Fidelity & Casualty Company of New York in the penal sum of \$10,000.

The sub-contract between the plaintiff and the defendants provided that payments should be made as follows: "Eighty per cent of all labor and material which has been placed in position by said sub-contractor, to be paid on or about the first of the following month, except the final payment, which the said contractor shall pay to the sub-contractor within 30 days after the sub-contractor shall have completed his work to the full satisfaction of said architect."

Contract Abandoned

The plaintiff alleged and offered evidence tending to show that the defendants abandoned the contract, "making it necessary for the plaintiff to take over the work and complete the same." There was evidence tending to show that the defendants abandoned the contract on or about Oct. 4, 1928, and notice was given to the surety company by the plaintiff on or about Oct. 8, 1928.

The plaintiff brought a suit against the defendants, Stanley & Dazey, sub-contractors, Greensboro Paint Co., the Fidelity & Casualty Co. of New York, and J. E. Comer. The amount claimed was \$6060.12, which said claim was made up of the following items: (a) Cost of completion in excess of contract price, \$2425.38; (b) 60 days' delay at \$20 per day, \$1200; (c) cost of materials, \$2434.74—total, \$6060.12.

The defendant, Stanley & Dazey, filed an answer denying the right of plaintiff to recover and alleging a

counterclaim in the sum of \$3500. The defendant, surety company, filed an answer denying liability and alleged that it was released as bondsman for the sub-contractors for the reason that the plaintiff contractor failed and neglected to preserve the retained percentage of 20 per cent.

Retained Percentage Not Preserved
Upon this contention the evidence tended to show that the retained percentage would have amounted to approximately \$4202.82.

The evidence further showed that the plaintiff had paid to the defendants or to banks and other parties for the benefit of defendants approximately the entire contract price. The plaintiff, admitting that the retained percentage was not preserved, explained that he "had guaranteed bills for them. I did not keep in hand 20 per cent until the work was finished and completed, for I could not under the conditions."

At the conclusion of the evidence the trial judge sustained the motion of nonsuit made by the defendant, casualty company, and other defendants, retaining the cause as to the defendant, Stanley & Dazey.

The jury answered the issues against the contentions of defendant, Stanley & Dazey, and awarded the plaintiff the sum of \$6060.12.

No evidence was offered connecting the defendant, Greensboro Paint Co., or J. E. Comer with the controversy.

Discussion by the Court

Brogden, J.—Did the failure of the plaintiff to preserve and hold the retained percentage release the defendant surety from any and all obligation upon its bond?

The legal status of retained percentage in contracts of the kind involved in this controversy has been thus declared in Insurance Co. vs. Durham County, 190 N. C., 58, 128 S. E., 469: "The contract provision that 85 per cent of the value of labor and material used during the previous month, as estimated by the architect, shall be paid by the owner to the contractor at the dates specified during the progress of the work creates in the 15 per cent reserve balance an equity in which the surety has a substantial right. While the owner also has an equity in this reserved balance, he has no right, without the consent of the surety to waive it, or to exceed the provisions of the contract in making payments to the contractor. The retained balance is well calculated to induce the contractor to complete the building, and it is valuable security against loss when a breach occurs." *Prairie State Bank vs. U. S.*, 164 U. S., 227, 41 L. Ed., 412; *Hamilton vs. Republic Casualty Co.*, 135 S. E., 259; *Williston on Contracts*, Vol. II, Section 1243.

Tendency To Hold Surety

Williston, supra, summarizing the decisions upon the subject, states: "Such payments in larger amounts, or at earlier times than the contract between the principal and his employer fixed discharges the surety. But the basis of the rule is equitable, and it should not be pushed beyond equitable limits, and especially in recent years the courts have shown a tendency to hold the surety where it

sufficiently appears that the overpayment of the principal has caused no loss." 115 N. W., 24; *Wakefield vs. American Surety Co.*, 95 N. E. 350.

Second, if the excess payments are made to satisfy the valid claim of laborers and materialmen who are included within the terms of the bond, the surety is not relieved. *U. S. Fidelity & Guaranty Co. vs. Trustees of Baptist Church*.

Attitude of Courts Differs

An examination of the authorities bearing upon the subject discloses that the courts have adopted various attitudes with respect to the application of the principle of releasing the surety from his obligations. First, some courts have held that, if the owner overpays the contractor upon forged or mistaken estimates or by reason of fraudulent substitution of inferior materials, the surety is not thereby released. *Van Buren County vs. American Surety Co.*, 102 S. W., 325. Third, a surety is not discharged by overpayment unless it is shown that such overpayment resulted in loss. *Lloyd Investment Co. vs. Illinois Surety Co.*, 160 N. W., 58; *Maine Central Railroad Co. vs. National Surety Co.*, 94 Atl. 929. Fourth, if the owner fails to retain the specified percentage, the surety is discharged pro tanto upon the theory that such reserve percentage creates a right in the surety to apply the same in exoneration of the loss sustained by the failure to pay laborers and materialmen. *Mfg. Co. vs. Blaylock*, 192 N. C., 407, 135 S. E. 136.

Surety Entitled To Credit

This court has adopted the pro tanto theory; that is to say, that in contracts of the kind involved in this case, the surety in obedience to equitable principles is discharged and relieved to the extent of the loss actually suffered and no further. Therefore, the final determination of the rights of the parties depends upon whether the surety suffered a loss in the case at bar.

When Stanley & Dazey defaulted it was the duty of the defendant surety company to complete the work in accordance with the terms of the contract. If the owner had complied with the agreement entered into between the parties he would then have in hand to turn over to the surety the sum of \$4202.82, and thereupon the surety would be entitled to said sum to apply upon the completion of the work. No such amount was available, and thus the surety was deprived a credit to which it was entitled under the law.

No evidence was offered connecting the defendant, Greensboro Paint Co., or the defendant, Comer, with the transaction, and the judgment of nonsuit as to such defendants is upheld. The judgment of nonsuit as to defendant surety company is reversed, and the cause remanded for trial in accordance with the rules of liability declared in this opinion.

HUGE POPLAR TREE

A giant yellow poplar tree near Asheville, N. C., has a circumference of 36 feet at a point six inches above the ground, and its first limb is 100 feet off the ground.

BUILDERS ORGANIZE TO AID CONSTRUCTION

A permanent organization for the purpose of solving the various problems confronting the construction industry was formed at a meeting of industrialists and financial leaders at Chicago July 30.

Julius H. Barnes, head of the national building survey formed by President Hoover after the market crash last fall, was named head of a committee chosen to perfect details of organization. The new group will be called the national conference on construction.

Barnes will enlist governmental cooperation in the work.

"The meeting was held for the purpose of reviewing the principal inter-group problems of the construction industry and to determine the practicability of developing a continuing organization to assist in the solution of such problems," said Barnes. "Aspects of realty finance, including problems of legislation, appraisals of property, methods of home financing and credit practices, were discussed. Possible means of securing greater stabilization of the industry, a number of aspects of taxation and practical methods of introducing economies in the building and financing of residences and income properties, were considered."

"The conference will be for the purpose of reviewing the outstanding common problems of the business and other interests identified with such construction to determine upon a program of activities, including factual studies of such problems and agree upon recommendations to the co-operating agencies, public and private, looking toward the solutions of the problems."

The movement, he explained, will bring the 67 branches of the industry into a machine which will function more promptly than they have been able to do separately in the present general business depression.

Among those at the meeting was Myers H. Holtby of Los Angeles, Cal., first vice-president, U. S. Building & Loan League.

NEW OFFICE EQUIPMENT FIRM ORGANIZED

The partnership of Coe, Howard & Di Vecchio consisting of Lynn S. Coe, J. H. P. Howard, Jr., and Emil T. Di Vecchio has been organized and appointed the exclusive agent for San Francisco and San Mateo counties, as distributors of Berloy and Van Dorn steel office equipment.

This appointment came from the Berger Manufacturing Company of Canton, Ohio, which firm is a wholly owned subsidiary of the Republic Steel Corporation of Youngstown, O., third largest of its kind in the United States.

Coe and Di Vecchio have both had many years' experience in the office equipment line; the former having resigned from A. Carlisle and Company, former Van Dorn agents, where he held the position of manager of the furniture department to enter the present partnership; and the latter having resigned from Yawman & Erbe Manufacturing Company for the same purpose. J. H. P. Howard, Jr., is a newcomer to the office equipment field, having left the American Trust Company where he served as assistant credit manager. In the new partnership he will take over the general office management and internal control, while his two partners will be in charge of the sales force.

In addition they are handling the Alby Laboratory Company line of metal laboratory equipment.

A. G. C. SCENIC CONVENTION TOUR TO S. F. IN 1931

A transcontinental tour by special train, with stops at the outstanding scenic attractions of the west is to feature the transportation to the Twelfth Annual Convention of the Associated General Contractors of America in San Francisco next January. By arrangement with the Santa Fe Railroad, an A. G. C. Special Flyer, made up of specially selected all steel coaches, compartment and drawing room cars, will pick up the assembled delegates at Chicago and points en route.

Among the sights, which already have been arranged for convention tourists to see will be the Garden of the Gods, the Seven Falls, the Cave of the Winds and South Cheyenne Canyon during the stop over at Colorado Springs. With the big special train as a base contractors with their wives and families will be provided with plenty of time to explore the Pike's Peak country in the first break in the train ride enroute to the Golden Gate.

At Santa Fe, New Mexico, the big train is again to be parked while contractors are afforded an opportunity to visit the hitherto almost inaccessible Puye and Frijoles Cliff Dwellings, the inhabited Indian Pueblos, the Black Mesa Potteries and scores of other attractions now readily available in the vicinity of the ancient Spanish city, since highway contractors recently paved the way.

The A. G. C. Special Train is also to be halted on the brink of the Grand Canyon from sunrise till after sunset for a full day while its occupants get their fill of one of the greatest spectacles afforded by nature.

In addition to these great sights, those attending the convention are to have a full twelve hours at Los Angeles, in which they can swim at Long Beach, visit the movie studios at Hollywood, sample Los Angeles night life or repose quietly in their berths or staterooms in the Santa Fe train. To cap the climax the last leg of the journey, from Los Angeles to San Francisco, is to be over the beautiful coastal route of the Southern Pacific.

Of the greatest of the scenic attractions of the west there will still remain the Yosemite valley to intrigue the convention arrival at San Francisco.

By equipping the A. G. C. special train with the highest grade locomotive and rolling stock the Santa Fe has provided transportation equipment which enables that railroad to pledge its ability to provide time for the leisurely stopovers, side trips and explorations that are planned and still deliver the convention delegates at their destination within 122 hours after leaving the Chicago station.

PLUMBING FIXTURES

June wholesale prices of standard plumbing fixtures for a 6-room house, as collected by the U. S. Department of Commerce from reports of 12 representative manufacturers and wholesalers, were \$39.25, as compared with \$105.93 in May and \$97.54 in June 1929.

There were only 142 miles of paved roads in the United States in 1904. This is compared with more than 600,000 miles of paved highways at the present time. Most of the paving in 1904 was brick, representing 126 miles of the total.

UNFAIR COMPETITIVE METHODS BANNED BY MANUFACTURERS

Details of fifteen agreements to discontinue unfair competitive methods signed by that many companies and individuals have been made public by the Federal Trade Commission. These stipulation proceedings cover organizations dealing in a variety of commodities, including building materials.

Names of the respondents are not made public as is the rule in all cases where they have signed agreements to cease and desist from the practices charged in lieu of formal proceedings.

In one case which involves a manufacturer of paints and varnishes, the details of the stipulation agreements are, briefly, as follows:

Paints and shellacs sold by a manufacturer will no longer be labeled as strictly pure, which means composed wholly of shellac, when such is not true, according to the stipulation agreement signed by this manufacturer.

Paints and varnishes will no longer be advertised by a manufacturer by means of the words, "lead" or "zinc," so as to deceive buyers into believing that the products so described are composed of white lead or of zinc or that white lead or zinc is the principal element therein, when such is not the fact.

In another case the agreement provides that window screens which roll up like a curtain to disappear into the window casing will not be advertised by a company manufacturing them in a way that would mislead buyers into the belief that the company is part of or connected with a competitor company.

INCREASE NUMBER OF HOME OWNERS IS PLAN OF MEET

Leaders of civic and trade organizations will meet at Washington soon to plan the conference called by President Hoover designed to increase the number of home owners and at the same time to relieve unemployment in the building trades.

These leaders will fix a date and frame the program of the conference which President Hoover desires should seek especially to improve present methods of financing home ownership. The credit system in home building "is not as soundly organized as other branches of credit," the president said. The conference is to be privately financed, but the source of the funds was not disclosed. From home ownership, the conference will branch out into such fields as design, equipment, city planning and transportation, with the prospect of development of new ideas in these related subjects.

SWIMMING POOL BOOKLET

"Swimming Pools" is the title of a 32-page illustrated booklet issued by the Portland Cement Association.

Factors influencing the selection of site, determination of size and shape, as well as the general arrangement of pool facilities are given detailed attention. Text devoted to ways of controlling condensation and a brief discussion of the acoustical treatment of the walls and ceilings of indoor pools add further to the booklet's practical value. Underwater and overhead lighting, pool sanitation, and the different methods of filtration and sterilization are outlined.

Copies of "Swimming Pools" may be obtained without cost from the Portland Cement Association, 33 West Grand Avenue, Chicago.

THE OBSERVER

What He Hears and Sees on His Rounds

During the month of July, 1930, the Los Angeles city building department issued 2748 permits with an estimated valuation of \$5,841,626 as compared with 2457 permits with an estimated valuation of \$7,942,133 issued during the same month a year ago. For June, 1930, the number of permits issued was 2524 and the estimated valuation was \$5,485,138. Los Angeles building total for 7 months of the current year was \$45,554,527 as compared with \$62,013,732 for the corresponding period in 1929.

The "own your own home" drives of building and loan associations will be supplemented shortly by efforts to help home-builders get more for their money. The American Building Association News, national organ of the loan companies, plans to distribute a book of Standard Specifications for Residential Construction.

Most builders of small and medium-sized homes are completely inexperienced in the intricacies of construction. Smaller contractors and designers, more expert, are still not so efficient in giving the home-builder as much as his money should provide. And there are irresponsible contractors and designers to add to his troubles.

With all this in mind, the loan associations have had standard specifications drawn up by a large group of expert architects. Numerous plans are included in their book, which may be ready for distribution to building and loan companies throughout the country within three or four weeks.

The associations, having almost all of their nine billion dollars assets invested in mortgages on thousands of homes throughout the country, have a selfish interest in seeing that builders get the most possible for their money. The rapid depreciation of a poorly constructed home injures all parties interested in it.

The extent to which the associations will use the booklet will vary. It was originally intended simply as a guide and adviser to the prospective builder. However, some associations may set up the standard specifications as a criterion for use in considering loan applications.

The projected power development and expansion program of the California-Oregon Power Company is one of the biggest hydro-electric undertakings on the Pacific Coast this year. This is indicated by its application, filed at Salem, Oregon.

It estimates \$27,000,000 expenditures, creating 245,420 horsepower in a fifteen-mile stretch of the Klamath River.

The main development is on the Oregon side of the line, southwest of Klamath Falls. Some of the work will be on the California side.

The undertaking is known as the Grant power site development. It will include six power plants. It is expected it will take twenty years to complete the system. The original application has been pending since 1924. It proposed to develop 70,000 horsepower, at an estimated cost of \$7,000,000.

Five additional applications have been filed with the Oregon state engineer. Each asks for 1500 second feet of water.

One application proposes the utilization of a 200-foot fall and the development of 34,091 horsepower, at a cost of \$4,000,000.

The second application proposes to utilize a fall of 214 feet to produce 36,477 horsepower, at an estimated cost of \$4,500,000.

The third application would use a fall of 384 feet to produce 65,465 horsepower, at an estimated cost of \$5,500,000.

The fourth application would use a fall of 100 feet to produce 17,045 horsepower, at an estimated cost of \$2,600,000.

The fifth application would use a fall of 166 feet to produce 22,295 horsepower at an estimated cost of \$4,000,000.

State Engineer Luper of Oregon says there is no doubt the applications will be granted, with the reservations to protect the irrigation interests above the power sites.

The California-Oregon Power Company has before the federal power commission the applications for rights-of-way on the federal land. It is understood it will be granted as soon as the state approval of the applications is received. The Oregon applications were accompanied by a \$5850 filing fee.

"Recession in building activity throughout the country is gradually ebbing, but if the public is to build more homes, steps must be taken to improve the character and lower the costs of American domiciles," said Thomas S. Holden, vice-president of the F. W. Dodge Corporation, New York City, speaking before the recent convention of the United States Building & Loan League at Grand Rapids, Michigan.

The appointment of N. Max Dunning of Chicago, Illinois, fellow of the American Institute of Architects, as chairman of a sub-committee to prepare a booklet which will acquaint prospective home buyers with the various points which should be considered in purchasing a house, is announced by Secretary of Commerce R. P. Lamont, who is chairman of the National Committee on Wood Utilization. The preparation of this booklet has been made one of the special projects of the National Committee on Wood Utilization.

"A better understanding on the part of the home-buying public in regard to the principal structural and architectural features of a house would give a decided impetus to home ownership," said Mr. Dunning, in commenting on the project for which his committee was organized. "The purchase of a home is the most important investment the average person undertakes. An understanding of materials and workmanship and of what constitutes good architecture, therefore, is of vital importance to him in safeguarding his investment. These factors and many others are to be studied in detail by the sub-committee, and the results of their findings incorporated in a bulletin under the title 'How to Judge a House.'"

The National Committee on Wood Utilization, which was organized by

Herbert Hoover as Secretary of Commerce, has for its object the furthering of efficient wood-using practices. The preparation of the Committee's bulletin on "How to Judge a House" is a logical step in this direction. This publication will discuss the planning, designing and construction of houses costing less than \$15,000 in connection with which wood is used as an important structural or finishing material.

National Ornamental Iron & Bronze Co., Inc., has filed application for membership in the San Francisco Builders' Exchange. San Jose Brick and Tile Company, manufacturers of common brick, and Nils E. Johanson, general contractor, are new members in the organization.

TRADE NOTES

Bolinders oil engines of the two-cycle, low-pressure type in sizes from 6 to 600 hp. are described in a series of leaflets issued by Bolinders Co., Inc. 33 Rector St., New York City. The engines are made in Sweden and are distributed through an American branch.

Connecticut Telephone & Electric Corp., Meriden, Conn., has issued an extensive catalog covering its signal systems and intercommunicating telephones. This catalog may be obtained by application to the Connecticut Telephone & Electric Corporation at Meriden, Conn.

In an elaborate and well-illustrated book of 72 pages, "The Protection of Oil and Gas Lines," the Wales Dove-Hermiston Corp., 17 Battery Place, New York City, discusses the necessity for pipe protection, the products available for this purpose and the methods used in application. Data is given on a number of important pipe lines protected with the products of the company.

The library of the National Bureau of Casualty and Surety Underwriters, New York, has issued in multigraphed form "Tentative List of State Regulations, Orders, Advisory Pamphlets and Labor Laws Relating to Safety in Industry." It is arranged under the names of the states in alphabetical order. Nearly 300 titles are listed.

Data explaining the theory, characteristics, operation and installation of centrifugal pumps are given in bulletin 401, a 48 page publication issued by Goulds Pumps, Inc., Seneca Falls, N. Y. This presents in more comprehensive, compact and up-to-date form the material contained in bulletins 122 and 124 of the same company, issued several years ago. The material has been compiled by F. G. Switzer, professor of hydraulic engineering at Cornell University.

Russell Ray was elected president of Santa Barbara Chapter, American Institute of Architects, for the ensuing year at the annual meeting of the Chapter. Harold Burket of Ventura, was chosen vice-president; E. Keith Lockard, secretary, and Leonard A. Cooke, treasurer.

A continuation of lectures sponsored by the Chapter to be offered the public through educational organizations in the chapter's territory is planned.

Members of Southern California Chapter will be entertained by the Santa Barbara group next month.

ALONG THE LINE

George Smith Long, vice-president of the Weyerhaeuser Timber Co., died suddenly at Klamath Falls, Ore., Aug. 2. Death was due to a heart attack.

Los Angeles Harbor Commission re-elected Walter B. Allen, president, and J. A. Crawford, vice-president, for the coming year.

Hugh McGuire, for ten years a member of the Board of Public Works of Los Angeles, has been re-elected president for another year. Carl Wirsching was re-elected vice-president.

O. A. Plier, chief assistant city engineer, has been appointed acting city engineer of Seattle. W. D. Barkhuff, city engineer, died July 26 as the result of injuries received in an automobile accident.

Ralph R. Arnold, county engineer of Contra Costa County, has been appointed a member of the Board of Trustees of the Alhambra Union High School District, succeeding T. S. Duane, chairman of the Board.

With the sanction of the directors of the San Francisco Builders' Exchange, William H. George, president of the organization, has filed his candidacy for the Board of Freeholders who are to be elected on August 26 to frame a new charter for the city of San Francisco.

A. J. Judge, Jr., for twenty years associated with the sales department of the Berger Manufacturing Company, selling building products, died in San Francisco August 4, following a brief illness. Mr. Judge had a wide circle of friends in the construction fraternity and notice of his death comes as a shock to his business associates.

Porter H. Albright, consulting engineer of Los Angeles; R. V. Melick, chief engineer of Turlock Irrigation District, and Franklin Thomas, professor of engineering at California Institute of Technology, Pasadena, have been selected to check the Los Angeles County Flood Control District's estimates of excavation made for a dam at The Forks in San Gabriel river. Appointment of the committee of experts was strongly urged by E. C. Eaton, chief engineer of the flood control district, in answer to claims that the actual amount of excavation was less than shown by the estimates on which payments to the contractors, Flisher, Ross, MacDonald & Kahn, Inc., were based.

PAGE FENCE CATALOG

Page Steel & Wire Company, an associate company of the American Chain Company, New York, has issued a new catalog, No. 534, featuring in picture and descriptive matter the "Galvanized After Weaving" Chain Link Fence and Aluminum Fences. Page fencing is used extensively for industrial plants, institutions, municipal property, estates and of late has entered the airport fields. The catalog also contains details of Page fencing and miscellaneous parts used in connection therewith.

Michel & Pfeffer Iron Works, Harrison and Tenth Sts., are Northern California distributors and erectors of Page fencing.

HERE — THERE — EVERYWHERE

Fall meeting of the American Welding Society will be held September 22-27 in New York City.

Washington State Good Roads Association will hold its annual convention at Wenatchee, Wash., November 21-22.

Semi-annual meeting of the Concrete Reinforcing Steel Institute will be held at Briarcliff Lodge, N. Y., on October 20-22.

Annual meeting of the National Safety Congress (Chicago), will be held in Pittsburgh, Pa., September 29 to October 3.

J. F. Shepherd, general contractor of Stockton, accompanied by his wife and son, sailed from San Francisco on the Steamer President Polk July 26 to tour Eastern cities. They will travel by the way of the Panama Canal and will be gone about 2 months. Shepherd, Jr., will not return to the Pacific Coast but will remain in Kansas City where he proposes to complete his schooling.

Geo. S. Pittock and Son, Ltd., capitalized at \$10,000, has filed articles of incorporation with the secretary of state. The company will engage in the construction business and will market building materials. Directors are: George S. Pittock of Berkeley; Paul M. Jones of Oakland; Ira S. Lillick of Atherton, and Frank J. Foran and J. C. Ewing of San Francisco.

STATE BUILDERS' EXCHANGE INCORPORATES

Organized to protect interests of the building trades industry, the California State Builders Exchange, Ltd., has filed articles of incorporation with Frank C. Jordan, secretary of state. The organization will be state-wide in scope and will include various builders' exchanges.

Objects are to protect welfare of the industry, to maintain efficiency and a high technical standard of workmanship, to promote public relations and to aid in the solution of disputes between capital and labor.

Directors are: William T. Loesch, Pasadena; Ralph E. Hermann, Los Angeles; W. H. George, San Francisco; H. C. Anderson, Berkeley; W. Milton McGrew, Long Beach; T. M. Robinson, Fresno; E. H. Grogan, Stockton; Carl S. Petersen, Santa Barbara; P. M. Stanford, Richmond; Wm. J. Moore, San Jose, and M. H. Golden, San Diego.

MYERS HEADS U. S. BUILDING AND LOAN LEAGUE

R. Holtby Myers of Los Angeles, was elected president of the United States Building and Loan League at the closing session of the annual convention in Grand Rapids, Mich., July 31. Myers succeeds Ernest A. Hale of Boston. Philadelphia was chosen as the 1931 convention city.

Other officers of the league are: Wm. E. Best, Pittsburgh, first vice-president; Ward B. Whitlock, Springfield, Ill., second vice-president, chosen under the policy of advancing officers each year. Directors elected were: John Warren, Jersey City, N. J.; L. P. McCullough, Columbus, Ohio; George E. McKinnis, Shawnee, Okla., and Lee C. Stidd, Portland, Ore.

TRADE LITERATURE

Paramount Building Corp., Ltd., of San Francisco, has been incorporated with the principal place of business in San Francisco. Incorporators are: S. A. Gulati, Don Itay and Charles Itay.

Independent Pneumatic Tool Co., Chicago, Ill., has opened a branch sales office in Los Angeles, in charge of Vernon Job, formerly manager of the San Francisco office. He will be assisted by B. J. Herron.

A petition to dissolve the corporation of the Merritt Concrete Products Company has been filed in the superior court at San Jose. The petition states that the dissolution is agreeable to all stockholders and directors, H. H. Patterson, Ernest O. Billwiller and C. V. Whalley.

Inertol Company, Inc., manufacturer of waterproofing compounds and paints, with headquarters' offices in New York City, and factory in Newark, New Jersey, has established Western headquarters at 447 Sutter street. A complete stock of products is carried here in several warehouses, a distribution will be made to all the Western territory from this branch. B. W. Mueller, is Pacific Coast Manager.

The appointment of A. H. Schaffert as vice-president has been announced by the Truscon Steel Company. Mr. Schaffert is manager of the main plant at Youngstown, Ohio, and has contributed much to the efficient production and superior quality of Truscon products. He is well known as an authority in mechanical engineering and as a genius in practical plant management.

PLAINTIFFS WIN MONOLITH CEMENT SUIT

Patent rights in a secret formula for making plastic cement are involved in a suit which Superior Judge Guerin of Los Angeles has decided for the plaintiffs, E. B. Wyman and E. G. Melklejohn, cement merchants, against Hans Olson, the inventor, and the Monolith Portland Cement Company.

Wyman and Melklejohn asserted that Olson obtained a patent on his process and in 1920 signed an agreement giving them sole rights to manufacture plastic cement by his formula. Later they continued the Monolith concern began to manufacture cement by this process without paying them royalty.

The defendants contended that because Wyman and Melklejohn failed to establish a plant the patent reverted automatically to the inventor, Olson. Judge Guerin ordered an accounting of royalties due after giving judgment for the plaintiffs.

STEEL FURNITURE

June shipments of steel-furniture stock goods, as reported to the U. S. Department of Commerce by 34 manufacturers in the "business group," totaled \$2,123,441 as compared with \$2,342,097 in May, \$2,544,037 in June 1929, \$3,008,239 in June 1928 and \$2,519,512 in June 1927. June shipments of shelving, compiled from reports of 10 companies, totaled \$705,041 as compared with \$751,521 in May, \$920,355 in June 1929, \$720,253 in June 1928 and \$657,927 in June 1927.

ARBITRATION IS PRACTICAL— SHOULD BE PROVIDED BY LAW

By Tom W. Holman, Attorney For
Pacific Northwest Branch, A. G. C.
of America

The question of arbitration clauses in construction contracts has long been one of serious discussion and one advocated by the Associated General Contractors of America. Opposition to arbitrating has grown from the belief that a mutually fair basis for a start cannot be reached. This is particularly true with public officials inexperienced in applying arbitration provisions. The difference toward considering the subject probably grows principally out of the fact that most of the states carry archaic provisions for arbitration in former days, one example from a midwestern state even providing that the fee of the arbitrator shall be \$2 per day.

The modern businessman, like the modern lawyer, has learned that there is no economy in a lawsuit. Litigants, who are best fitted for a part in the daily routine of industry, when dragged into court lay aside their duties and fly at each other's throats. An economic loss must certainly result to both parties concerned.

An extended correspondence with the highway engineers of the states of the Union has shown that arbitration in fact is being used to the benefit of the public over litigating.

The American Association of Highway Officials promulgated a clause on arbitration for insertion in public contracts. Several of the states, notably Georgia, have enacted legislation in support of this provision and the clause now inserted in all public contracts in Georgia requires that both parties agree as a condition precedent to commencing any action in court on a contract that the differences shall be referred to a board of arbitration consisting of three members, one selected by the contractor, one by the public official concerned, and the third selected by such two members, and that the results of the arbitration have the same general effect as a jury's or referee's finding of fact.

This has eliminated thousands of

dollars in preparation of technical data for trial and in heavy expenditure for expert testimony. Likewise, it has resulted in a saving of time incalculable in dollars and cents.

Minnesota, under its 1921 law, Section 2384, Mason's Minnesota State, 1927, carries this provision with respect to state highway contracts:

Subdivision 17 as provided: That controversies arising out of any contract for construction or repair of highways entered into by the commissioner of highways, or by his authority, shall be submitted to arbitration if the parties cannot otherwise agree. Three persons shall compose the arbitration board unless a lesser number is agreed on. If a lesser number is not agreed on each party shall name one arbitrator and those two shall name a third. This statute further provides for

an expeditious and thorough determination of the differences and elimination of the wastefulness and loss of time as resultant of litigation.

Public officials are falling in step with the progressive demands of modern business and are recognizing that a record victory, even with a subsequent recovery against the contractor or his surety of a fixed sum of money, does not make a satisfactory substitute for expeditious settlement during the progress of the work and a good will attitude in its performance. The rush of present day business will not tolerate the delay, the uncertainty and the ineffectual substitute of a law suit for the physical accomplishment desired.

The time has come when intelligence directs that differences shall be adjusted and forgotten and that the work shall progress. Concerted efforts on the part of this association can and should now bring about adequate provisions for arbitration in public contracts, the same as already adopted in every large private undertaking. Economy dictates and common sense supports it. Arbitration is practical and must be had.

SKILLFUL TIMING OF PUBLIC WORK VITAL TO ECONOMIC BALANCE

Skillful timing in the use of a comparatively small margin of public construction is far more important for practical influence on the economic balance than initiating new undertakings, in the opinion of the Committee on Recent Economic Changes of the President's Conference on Unemployment, expressed in a report just made public at Washington.

"As an unplanned form of emergency relief for unemployment," says the report, "public construction has long been tried and found in great measure wanting. Nor does it appear practicable or necessary on any large scale to withhold expenditures on public construction during years of prosperity in order to accumulate a reserve of work during business depressions."

Referring to the volume of contracts awarded for public works and utilities this year, the committee says that "to turn the course of public construction from a depressing to a stimulating influence is of the very

essence of usefulness of public works as a balancing factor," and "it is promptly and comprehensively expediting work on projects already planned, rather than initiating new undertakings, that the key to the problem lies."

Fact-Finding Survey

The committee's report is based on a fact-finding survey of the whole public construction situation, begun last July at the suggestion of President Hoover and carried on by the National Bureau of Economic Research of New York, with the assistance of the Department of Commerce. The survey was prepared by Dr. Leo Wolman of the staff of the research bureau.

The survey is a continuation of the study of post-war economic changes made by the National Bureau and issued a year ago, together with a report of the committee.

It is pointed out in the report that about \$3,500,000,000 is expended annually on public construction, employ-

ing approximately 900,000 workers, and that the trend is rising. These public expenditures represent, it is estimated, from 25 to 40 per cent of the total of all construction in the country.

Public roads in 1929, the largest single item, cost more than \$1,500,000,000. It was noted, and more than one-third of the public works outlay of the Federal government was expended on roads and more than one-half of the total on roads and shipbuilding together.

State governments spent most on road-building, grade crossings and public buildings, and cities spent their moneys largely on transportation facilities, schools and hospitals and on water supply and sewage disposal, according to the statement.

Improvement Programs Lag

"Today the principal spending agencies are behind in their programs for permanent improvements," says the report. "It is impossible to make a statistical estimate of the public expenditure on public works in the next few years, but it would appear that communities whose growth continues must make programs of construction requiring substantial outlays for traffic relief, water supply, sewage disposal and hospital and educational facilities. Though per capita debt burdens have increased in recent years, sampling studies of the margins of unused borrowing power indicate no financial embarrassment on the part of most of our governmental units."

"There are great public works to be built, there is money to do it, and in this country where future projects of permanent public improvements are so fixed and well defined, it is unnecessary to resort to makeshifts for additional work. Never have programs of poor relief or charity colored, to any appreciable extent, the American policy toward public works in relation to unemployment, and advocates of long-range planning favor active prosecution of projects which are economically desirable at the most desirable time. From the standpoint of the taxpayers, who provide the funds, and from that of labor, which may be employed upon the work, noneconomic reasons for public construction have not been favored."

"That declines in public works started during periods of depression have continued even after general business has revived is indicated by studies of the National Bureau of Economic Research. In recent months, however, this tendency has been measurably counteracted and public construction has been increased. Contracts awarded for public works and public utilities in the first four months of 1930 showed an increase of 30 per cent over the corresponding period of 1929. This is striking evidence of acceleration."

Trend of Public Construction

"Left to themselves contracts for public construction are not highly sensitive to the cyclical movements in business. Having started to decline during periods of depression, public works have continued to decline, sometimes all the way through the revival of the next cycle."

"To offset this natural tendency, to turn the course of public construction from a depressing to a stimulating influence, is of the very essence of the usefulness of public works as a balancing economic factor. And it is in promptly and comprehensively expediting work on projects already planned, rather than in initiating new undertakings, that the key to the problem lies."

"The amount of public construction which it is possible to rush forward in order to influence employment and the trend of business in a period of recession is less important than the timing of the acceleration. The psychological effect of advancing public construction at the right time suggests that here is to be found an im-

portant factor in the problem of maintaining a reasonable economic balance.

"If properly timed, as the pendulum of employment starts to swing in an unfavorable direction, the influence of the prompt expedition of public works is effective out of all proportion to its size. Timeliness multiplies the effectiveness of each project accelerated."

"Prompt action, before conditions become serious, can be assured only as there is developed a practical method of gauging the economic situation, so that unfavorable trends which threaten adversely to influence the economic balance may be anticipated and compensating factors influenced earlier than would be the case if natural forces were left to act in their own time and way. Skilled use of the time factor must, therefore, enter into a program of planning for stabilization."

BIDDING FOR ENGINEERING SERVICES CONDEMNED

The soliciting of bids from engineers by cities and corporations has aroused protests from engineering bodies, according to the American Engineering Council, of which Carl E. Grunsky of San Francisco, is president. The requirements of some municipalities that engineers post bonds for the faithful performance of contracts is also condemned.

The American Society of Civil Engineers and the American Institute of Consulting Engineers, both member organizations of the council, have adopted resolutions opposing these practices.

"Members of the engineering profession who respond to public invitations to submit bids for rendering engineering services," declared the institute, "thereby lower their individual and professional standing, and tend to bring indignity and discredit on an honorable profession."

SKYSCRAPERS FORCED BY CASABLANCA BOOM

The "Skyscraper Committee" is the latest organization created within the Casablanca (Morocco) City Council.

Although the early plans of the French Protectorate called for construction of a European town on a site larger than that of Bordeaux, so rapid has been the growth of the city that the area has been found inadequate and the authorities must prepare to "build in the air."

"American methods are necessary here," said Lucien Saint, resident-general of France in Morocco. "This has been a regular American mushroom city, so, for identical situations one must find similar solutions."

Building lots have doubled in price since the Armistice.

A simplified practice recommendation covering dimensions and allowable loads per linear foot of Open Web Steel Joists, was unanimously approved at a general conference of representatives of the industry, held under the auspices of the Division of Simplified Practice of the Bureau of Standards, Department of Commerce, at the Hotel Hollenden, Cleveland, Ohio, on July 15, 1930. A standing committee, composed of representatives of manufacturers and users, was appointed by the conference. It is expected that this simplification will greatly reduce existing confusion in the design of open web steel joist construction. The recommendation, subject to approval of the industry, will be effective as of October 1, 1930.

ESSENTIAL AND NOTEWORTHY FACTS ON WROUGHT IRON CITED

(By F. CREMER, Ph. D.)

In recent years the subject of how to prevent corrosion of ferrous metal has become of ever increasing interest. Similar lively attention has never been displayed in the more distant past, although it is reasonable to assume that our forefathers were keenly imbued with a true spirit for conversation and durability. Yet, even the mere word corrosion is barely ever mentioned in the written records of the past. What is the most obvious answer to this seeming puzzle?

It is the overwhelming number and great variety of many a choice and useful piece of metal craftsmanship, created generations ago, yet in perfect condition today, bearing silent, yet eloquent evidence to the skill that produced metals of unsurpassed merit, that "budded for posterity."

Wrought iron was the only metal of the ferrous group of that time. As we know today, wrought iron carries a natural immunity against progressive corrosion, a phenomenon not at all recognized in its full significance by the casual observer of that earlier period, but gaining recognition every day, while the test of time goes on in mother nature's laboratory, as the most important specific wrought iron virtue.

Resistance To Corrosion

Wrought iron, like all ferrous metal, will form at first a coat of rust upon exposure to weather. But this rust formation is stopped from further progress into the metal underneath. It is this resistance to progressive corrosion that makes wrought iron so practical in its new application to metal window sash, materially reducing maintenance costs where atmospheric conditions cut short the lives of other metals. What is the barrier to this progressive corrosion?

There is something in wrought iron, which is most evident to the man who "wroughts" it, but not so obvious to the man who sees only the finished article made from wrought iron and has never visited a wrought iron mill.

Wrought iron contains a large amount (about 6% by volume) of a non-corrodible substance, called "muck" by the old timer, which modern chemists have determined to be an iron silicate welding flux similar in its characteristics to glass.

This iron silicate welding flux is worked into a most perfect mechanical mixture with the metallic structure of the metal proper. It is so well dispersed, so minutely broken up into small parallel filaments, that only the microscope can reveal exactly how uniformly these noncorrodible filaments are distributed throughout the mass and how closely they are spaced apart.

In such minute subdivision the welding clinker produces a protective action upon its associate, the metallic iron. These corrosion resisting glass-like filaments become in the course of time a part of the very outer weather-beaten surface.

Set up like a grid, they hold the rust film, which forms first, anchored and lodged in place, prevented the corrosion from further progression.

Good wrought iron contains from 300 to 800 iron silicate filaments to the inch. The spacing between the

filaments can be likened to a 300 wire mesh sieve, which will carry water owing to the high surface tension of the latter. Therefore these filaments act as a water shed, and owing to the narrow spacing will keep the water from penetrating into the crevices of the surface with resulting progressive rust formation.

The peculiar surface of wrought iron and its fibrous fracture—both the result of the welding flux in the iron—are such familiar marks to men accustomed to handling scrap that they can readily and instantly identify wrought iron, without calling into consultation the painstaking chemist with his microscope.

Improved Methods

Modern wrought iron manufacturers, fully aware of the demonstrated virtue of wrought iron, have improved production methods of wrought iron of the old days and have succeeded.

As in the past, the wrought iron manufacturer of today produces as an original and most essential step of manufacture the wrought iron ball, with its typical spongy or porous structure, with the pores filled with molten iron silicate welding flux, with the metal particles clotted together like individual snow flake crystals. This ball is carefully compressed at a welding heat into a solid bloom. This is done not only to "wrought" with means to work or distribute the fluid welding flux uniformly throughout the mass, thereby eliminating the labor started in the welding furnace, but also to eject any harmful excess of flux by the squeezing process and to obtain shape, which is adapted to further elongating and rolling. Into bars, thereby developing in the direction of rolling the distinctly fibrous wrought iron structure, containing myriads of microscopically small slag filaments, indeed a unique combination of characteristics.

Wrought iron is therefore a ferrous metal product, which is obtained from a porous, spongy metal ball saturated with a molten iron silicate welding flux and developed into a metal with a distinct fiber structure in the direction of rolling. The chemical analysis and physical tests of wrought iron closely resemble very mild steel.

Uniformity of welding flux distribution and freedom from segregation are special qualities distinguishing different grades of wrought iron and are depending on the skill employed in the manufacturing process.

Nowhere do these astonishing virtues of wrought iron reveal themselves so clearly as in metal window sash where the slim bars are difficult to paint and protect from the atmosphere. With wrought iron the salt-laden slag wrought into the metal itself serves as the protective barrier to progressive corrosion and in itself is an economy long sought after by maintenance engineers.

CLAIMS PAVING TITLE

With a population of 8166 and 27 miles of paving, Mayfield, Ky., claims now paving per capita than any other city in the United States—17½ feet to each citizen.

Building News Section

APARTMENTS

Sub-Bids Being Taken.
APARTMENTS Cost, \$75,000
SAN FRANCISCO, NW Divisadero
and Jefferson Sts.

Three-story frame and stucco apart-
ments (Spanish type; brick base-
ment; 15 3-room apts.)

Owner and Builder—Viggo Rasmus-
sen, 2290 Francisco St., S. F.
Architect—Irvine & Ebbets, Call Bldg.,
San Francisco.

Construction has been started.

Plans Being Completed.
ALTERATIONS Cost, \$100,000
SONORA, Tuolumne Co., Cal.

Alterations and additions to present
three-story brick hotel (new lobby,
coffee shop, banquet rooms,
elevators, etc.)

Owner—Erick and Chas. Seterstrom,
Sonora.

Architect—Davis-Pearce Co., Grant
and Weber Sts., Stockton.

Bids will be taken in about two
weeks.

Completing Plans.
APARTMENTS Cost, \$16,000
SAN FRANCISCO Cabrillo St. E
Thirty-third Ave.

Two-story frame and stucco apart-
ments (4 3-room apts.)

Owner—Withheld.
Architect—Richard Irvine, Call Bldg.,
San Francisco.

Plans will be ready for bids in one
week.

Contract Awarded.
APARTMENTS Cost, \$175,000
SAN FRANCISCO, NE Buena Vista
Ave. and Waller St.

Six-story Class C basement and sub-
basement apartments (36 2 and 3-
room apts. and one 10-room apt.)

Owner—Sunical Investment Co.
Architect—Albert H. Larsen, 447 Sut-
ter St., San Francisco.

Contractor—Mission Concrete Co., 270
Turk St., San Francisco.

Contract Awarded.
APARTMENTS Cost, \$175,000
FRESNO, Fresno Co., Cal. Mariposa
and P Streets.

Four-story steel frame and brick
store and apartments.

Owner—H. A. Chalmers Co., 277 21st
Ave., San Francisco.

Plans by Wm. Symonds, 466 41st St.,
Oakland.

Contractor—Chas. Laughlin Constr.
Co., 421 Mills Bldg., San Fran-
cisco.

Contract Awarded.
APARTMENTS Cost, \$85,000
REDWOOD CITY, San Mateo Co., Cal.
No. 1 Duane Street.

Three-story and basement concrete
and frame apartments.

Owner—M. E. Ryan, 231 Main St.,
Redwood City.

Architect—None.
Contractor—Russell & Duncan, %
Owner.

Plans Being Prepared.
APARTMENTS Cost, \$150,000
SAN FRANCISCO, Pacific Ave. and
Baker St.

Three-story steel frame and concrete
semi-fireproof apts. (six 6-room
apts.)

Owner—W. R. Voorhies, Inc., 369 Pine
Street.

Plans by A. D. Janssen, 369 Pine St.
Plans will be completed in about 2
weeks.

Completing Plans.
APARTMENTS Cost, \$150,000
OAKLAND, Alameda Co., Cal. Mer-
ritt Avenue.

Six-story class C concrete apartments
(35 2-3- and 4-room apts.)

Owner—Name Withheld.
Architect—Chester Treichel, American
Bank Bldg., Oakland.

Sub-Bids Being Taken.
APARTMENTS Cost, \$45,000
SAN FRANCISCO, SE 14th Ave. and
Taraval St.

Three-story frame and stucco apts.
(six 2-room and six 3-room apts.;
brick basement.)

Owner and Builder—Harry J. Rock.
Architect—Irvine & Ebbets, Call Bldg.

Owner Taking Sub-Bids.
APARTMENTS Cost each, \$40,000
SAN FRANCISCO, W 25th Avenue S
Cabrillo St.

Two three-story and basement frame
and stucco apartments (6 2-room
and 6 3-room apts.)

Owner and Builder—Fred. Anderson,
1320 22nd Avenue.
Architect—Irvine & Ebbets, Call Bldg.

Plans Being Completed.
APARTMENTS Cost, \$50,000
SAN FRANCISCO, SE Pierce and Al-
hambra Sts.

Three-story and basement frame and
stucco apartments (12 3-4- and 5-
room apts.)

Owner—Paramount Building Corpora-
tion, Ltd., 200 Green St.

Architect—Richard Irvine, Call Bldg.
Bids will be taken with a few days.

BONDS

ALPAUGH, Tulare Co., Cal.—Elec-
tion will be held August 22 in the Al-
paugh School District to vote bonds
of \$9000 to finance school improve-
ments. Trustees of the district are:
Mrs. J. C. Kinsman, H. R. Leek and
Frederick G. Crowell.

A Demonstration of the SKILSAW PORTABLE ELEC- TRIC HAND SAW

Will solve your cutting problems.
(Four Models, 1/2 to 1 h. p.)

ELECTRIC HAMMERS ELECTRIC DRILLS GRINDERS, BUFFERS

PETER H. NELSON

Labor Saving Portable Electric
Tools.

1222 Mission St. UNDERHILL
San Francisco 1267

LAKEPORT, Lake Co., Cal.—Elec-
tion will be held August 22 in Sulphur
Banks School District to vote bonds of
\$8000 to finance erection of a new
school. Trustees of the district are:
Luella B. Carr, Albert F. Wolbert and
A. L. Story.

HAYWARD, Alameda Co., Calif.—
Federated Improvement Club has cal-
led a special meeting for August 14 to
discuss the proposal for a junior col-
lege. It is proposed to form a district
for such a purpose and purchase a
site in Southern Alameda County on
which to erect the proposed college.

CALISTOGA, Napa Co., Cal.—
Election will be held August 26 in
Calistoga Grammar School District to
vote bonds of \$70,000 to finance erec-
tion of a new grammar school. Two
previous elections for the purpose
were defeated by a slight margin.

MARYSVILLE, Yuba Co., Calif.—
Election will be held August 26 in
Linda School District to vote bonds
of \$9000 to finance erection of a new
school. Trustees of the district are:
A. R. Gledhill, M. S. Mitrovich and
Wm. Dinsmore.

CHURCHES

ROSEVILLE, Placer Co., Calif.—
Methodist Church Society will open
campaign to secure funds to finance
erection of a new church building,
estimated cost \$25,000.

Plans Being Completed.
CHURCH Cost, \$30,000
NORTH OAKLAND, Alameda Co.
Two-story frame and brick veneer
church (auditorium to seat 570).
Owner—Colored Baptist Church.
Architect—Charles W. McCall, 1404
Franklin St., Oakland.
Bids will be called for shortly.

Plans Being Prepared.
CHURCH Cost, \$65,000
PITTSBURG, Contra Costa Co., Cal.
NW Black Diamond and W 8th St.
Two-story reinforced concrete church
with steel roof trusses (120x42-ft.).
Owner—Roman Catholic Archbishop of
San Francisco, 110 Franklin St.,
San Francisco; & Corp. Sole. (St.
Peter Martyr Parish, Rev. Louis
A. Nasselli, rector).
Architect—Arnold Constable, 580 Mar-
ket St., San Francisco.
Will have full basement for Parish
Hall and auditorium will seat 700. Will
have stucco finish, the roof and be of
the Italian Romanesque style of archi-
tecture. Plans will be ready for bids
about October 15.

SAN FRANCISCO—Dinwiddie Con-
struction Co., Crocker Bldg., awarded
the cast stone contract to P. Grassi,
1945 San Bruno Ave., in connection
with the construction of Grace Cathe-
dral, located on Jones, Taylor,
Sacramento and California Sts. Plans
prepared by Architect Lewis F. Ho-
bart, Crocker Bldg.

FACTORIES AND WARE- HOUSES

Reinforcing Steel Contract Awarded.
LOADING PLANT Cost, \$37,669
LIVERMORE, Alameda Co., Cal.
Reinforced concrete washing, screen-
ing and loading plant.
Owner—Kaiser Paving Co., 1522 Lath-
am Square Bldg., Oakland.
Engineer—L. H. Nishkian, 525 Market
St., San Francisco.
Contractor—Schuler & McDonald, 1723
Webster St., Oakland.
Reinforcing Steel—Soule Steel Co.,
Rialto Bldg., San Francisco.

Working Drawings Being Prepared.
FACTORY BLDGS. Cost, \$500,000
FRUITVALE, Alameda Co., Cal.
Group of reinforced concrete factory
buildings.
Owner—Oliver United Filters Co., Inc.,
Fourth and Madison Sts., Oakland.
Architect—Reed and Corlett, Oakland
Bank of Savings Bldg., Oakland.
Bids will not be called for at least
sixty days.

Plans Prepared.
HANGAR, ETC. Cost, \$100,000
ALAMEDA, Alameda Co., Cal. Web-
ster St.
All-steel hangar and administration
building (120x140-ft.)
Owner—Alameda Bay Airframe (R. U.
St. John, field manager).
Architect—Not Given.
Contractor—Lindner and Swinerton,
Inc., 225 Bush St., San Francisco.
It is proposed to break ground about
Aug. 16. The structure will be 120 by
440 feet and will house shops and of-
fices, in addition to providing plane
storage space for 70 small planes or
15 tri-motored transports.

Plans Being Figured.
FACTORY Cost, \$25,000
OAKLAND, Alameda Co., Cal. 46th
and Telegraph Aves.
Two-story reinforced concrete fac-
tory and warehouse.
Owner—Margaret Burnham Candy Co.,
3800 Piedmont Ave., Oakland.
Plans by George E. Koster, 2355 Leav-
enworth St., San Francisco.

Bids Opened.
SHED Cost, \$90,000
SAN FRANCISCO, Pier No. 1.
One-story shed (reinforced concrete
construction; steel columns, wood
roof).
Owner—State Board of Harbor Com-
missioners.
Engineer—Frank White, Ferry Bldg.,
San Francisco.

Following is a complete list of
bids received:
Barrett & Hulp, 918 Harrison
St., San Francisco.....\$114,868
Spivock & Spivock.....114,900
MacDonald & Kahn.....115,000
F. C. Amoroso.....115,000
L. L. Hansen.....119,400
Healy-Tibbitts Constr. Co.....120,920
Schuler & McDonald, Oakland 121,981
Bids held under advisement.

Plans Being Completed.
CREAMERY Cost, \$—
SAN FRANCISCO. Eighteenth and
York Sts. (137-6x200-ft.)
Two-story and basement class E con-
crete creamery (foundations laid
for two additional stories to be
added later).
Owner—Challenge Creamery and But-
ter Assn., 807 Montgomery St.
Architect—Dodge Riedy, Pacific Bldg.
Plans will be ready for bids in about
two weeks.

Preliminary Plans Being Prepared.
WAREHOUSE Cost, \$125,000
SAN FRANCISCO. Eleventh and
Bryant Streets.

Central storage warehouse (type of
construction not determined).
Owner—City & County of San Fran-
cisco.
Architect—Dodge A. Riedy, Pacific
Bldg., San Francisco.

Sub-Contracts Awarded.
WAREHOUSE Cost, \$60,000
SAN MATEO, San Mateo Co., Cal.
Peninsula Ave. and Woodside Way
Warehouse, rock, sand and gravel
bunkers.
Owner—H. E. Casey Co. (H. E. Casey,
manager), San Mateo.
Architect—Eng. Dept. of Owner.
Contractor—A. M. Schulte, 120 Ban-
croft Road, San Mateo.
Steel—Pacific Coast Steel Co., 215
Market St., South San Francisco.
Steel Bunkers—Rodison Mfg. Co., 4401
San Bruno Ave., San Francisco.
Concrete—Gus Adolphson, 706 N.
Claremont St., San Mateo.

Contract Awarded.
WAREHOUSE Cost, \$12,000
PLACERVILLE, Eldorado Co., Calif.
One-story concrete warehouse.
Owner—Pacific Gas & Electric Co., 245
Market St., San Francisco.
Plans by Eng. Dept. of Owner.
Contractor—J. P. Morton, Placerville.

Contract Awarded.
WAREHOUSE Cost, \$20,000
TIRLOCK, Stanislaus Co., Cal.
Feed mill (40x50 ft.) 35 ft. in height;
warehouse (58x100 ft.) 12 ft. in
height and warehouse (50x100 ft.)
14 ft. in height (all of cement and
galvanized iron construction).
Owner—K. Knutsen.
Plans by Owner.
Contractor—Anderson & Wiman,
Turlock.

Will be equipped with latest type of
grinding and mixing equipment in
addition to a 15,000-gal. molasses tank
and mixer.

Contract Awarded.
INDUSTRIAL BLDG. Cost, \$15,000
SAN FRANCISCO. E Ninth St. 150
N Harrison St.
Two-story Class C reinforced concrete
industrial building (25x100 ft.)
Owner—W. C. Johnson.
Architect—O'Brien Bros. and W. D.
Peugh, 315 Montgomery St., San
Francisco.
Lessee—Marwood Electric Co.
Contractor—Industrial Constr. Co.,
815 Bryant St., San Francisco.
Sub-bids will be taken August 4.

Sub-Contracts Awarded.
PACKING PLANT Cost, \$20,000
SAN JOSE, Santa Clara Co., Cal.
Berryessa Road (15 acre site)
One and two-story reinforced concrete
meat packing plant and one and
two-story reduction plant of gal-
vanized iron and brick construc-
tion.
Owner—Continental Packing Co., Ltd.
(represented by W. H. Lehrback
and Geo. F. Cokely, 1217 Park
Ave., San Jose).
Architect—Lescher & Mahoney, Phoe-
nix, Arizona
Contractor—Thermotite Constr. Co.,
580 Stockton Ave., San Jose.
Lumber—Hubbard & Carmichael
Bros. Co., 384 W-Santa Clara St.,
San Jose.
Plumbing and Sheet Metal—Wm. F.
Serpa, 497 N-13th St., San Jose.
Electrical Wiring—Guilbert Bros., 250
W-Santa Clara St., San Jose.
Roofing—W. J. Porter, 1229 W-San
Carlos St., San Jose.
Miscellaneous Iron—Harold Hellwig,
577 W-Santa Clara St., San Jose.

Additional Sub-Contracts Awarded.
LABORATORY Cost, \$65,000
SAN FRANCISCO. N Fell Street, bet.
Van Ness Ave. and Polk St.
Three-story and basement reinforced
concrete and brick offices and labo-
ratory.
Owner—The Viavi Co., Van Ness Ave.
and Market St., San Francisco.
Architect—Willis Polk & Co., 277 Pine
St., San Francisco.
Contractor—Barrett & Hulp, 918 Har-
rison St., San Francisco.
Steel Sash—U. S. Metal Products Co.,
330 Tenth St., San Francisco.
Mill Work—Irannan St. Planing Mill,
San Francisco.
Cast Stone and Cast Plaster—John
Bichel, 209 Fell St., San Francisco.
Brick Work—Wm. Rainey, 323 Clem-
entina St., San Francisco.

Contract Awarded.
CREAMERY Cost, \$65,000
OAKLAND, Alameda Co., Calif. San
Pablo Ave. and Athens St.
One-story and two-story brick and tile
creamery.
Owner—Willow Brook Dairy.
Architect—Diggs and Marshall, Inc.,
Latham Square Bldg., Oakland.
Contractor—E. Campomenosi, 647 1/2
Broadway Terrace, Oakland.

Contract Awarded.
ADDITION Cost, \$350,000
LONG BEACH, Los Angeles Co., Cal.
One-story precast reinforced concrete
and brick addition to plant (480x56
ft., to house pressed steel plant).
Owner—Ford Motor Co., Detroit.
Architect—Albert Kahn, Inc., Detroit.
Contractor—Clinton Const. Co., Spring
Arcade Bldg., Los Angeles and
923 Folsom St., San Francisco.
Other contracts have been awarded
as follows: Electrical work to H. H.
Oberniller, 318 W 9th St., Los Ange-
les; sprinkler system to Fire Protec-
tion Eng. Co., 7451 Wiloughby, Los
Angeles; structural steel to Consoli-
dated Steel Corp., 1200 N Main St.,
Los Angeles.

Plans Being Prepared
MFG. PLANT Cost, \$150,000
SALINAS, Monterey Co., Cal. Spence
Switch, 7 miles south of Salinas.
First unit of sheet iron manufactur-
ing plant.
Owner—American Rubber Producers,
Inc. of California, M. W. Williams,
President.

Architect—Eng. Dept. of Owner
The California concern is a subsidi-
ary of the Inter-Continental Rub-
ber Co. of New York, of which G. H.
Cranahan is president. The site avail-
able for construction comprises 18
acres in addition to that on which
planting has already been started.
It is expected to start construction
in about 30 days

Planned.
WAREHOUSE Cost, \$750,000
LOS ANGELES, Cal. Second and
San Pedro Sts.
Five-story structural steel or reinforc-
ed concrete warehouse and labora-
tory building (250x150 feet.)
Owner—Brunswick Drug Co., 501 N
Main St., Los Angeles.
Architect—Not Selected.

Contract Awarded.
LABORATORY Cost, \$125,000
LOS ANGELES, Cal. N. 7020 Eo-
maline Street.
Two-story Class C brick and concrete
film laboratory (111x297 feet)
Owner—Multicolor, Ltd.
Architect—Eng. Dept. of Owner
Contractor—Myers Bros., 3467 San
Fernando Road, Los Angeles

Deep Well Turbine Pump and Boiler Bids Wanted.
INDUSTRIAL BLDG. Cost, \$—
SAN FRANCISCO. SE Russ St. and Howard St.
Three-story reinforced concrete industrial building.
Owner—Eng-Skell Co., 208 Mission St.
Engineer—A. C. Griewank, 203 Mission Street.

As previously reported, pile driving awarded to M. B. McGowan, Cal Bldg. Bids are now being received to furnish and install a deep well turbine pump and 60-horsepower boiler of 50 lbs. pressure.

GARAGES AND SERVICE STATIONS

Sub-Contracts Awarded.
SALES BLDG. Cost, \$20,000
NEWMAN, Stanislaus Co., Cal.
One-story brick auto sales and service building.

Owner—Thomas Rose.
Architect—H. G. Bissell, 421 E. Miner St., Stockton.

Contractor—Ray Krueger, Gustine.
Painting—Max Kidder, Gustine.
Wiring—Pete Buigard, Newman.
Roofing—San Joaquin Lumber Co., Stockton.

Mill Work—Union Planing Mill, Stockton.

Glass—Tyre Bros., Fresno.
Tile—Fresno Marble & Tile Co., Fresno.

Steel Sash—Michel & Pfeffer Iron Works, Harrison and Tenth Sts., San Francisco.

Structural Steel—Schrader Iron Wks., 1247 Harrison St., San Francisco.

Lumber—Yauncey Lumber Co., Newman.

Cement—Santa Cruz Portland Cement Co., Crocker Bldg., San Francisco.

To Be Done By Day's Work By Owner
SERVICE STATION Cost, \$11,000
SAN MATEO, San Mateo Co., Cal.
Lots 5 and 6 Blk 2, El Camino.

Brick gas supply and super-service station.
Owner—The Texas Co., 1731 Fir St., San Mateo.

Architect—Eng. Dept. of Owner.

Contract Awarded.
ALTERATIONS Cost, \$—
SAN FRANCISCO. No. 860 Howard Street.

Alterations and additions to reinforced concrete auto sales bldg.

Owner—Pacific Gillespie System, Inc., 852 Howard St., San Francisco.

Architect—Eng. Dept. of Owner.

Contractor—Willadsen Bros., 417 Market St., San Francisco.

Wrecking is now under way.

GOVERNMENT WORK AND SUPPLIES

SACRAMENTO, Cal. — See "Machinery and Equipment," this issue. Bids wanted by U. S. Engineer Office to furnish pneumatic wood boring machine, chipping hammers and miscellaneous tools.

PALO ALTO, Santa Clara Co., Cal. — Until August 23, 10 A. M., bids will be received by Supervising Superintendent of Construction, U. S. Veterans' Hospital, Palo Alto, for revisions and additions to the ground lighting system, involving cast iron lighting standards; lighting units for standards in place; installation of C. C., including control switch and step-down lighting transformers, parkway cable, including foundations, trenching, backfill, etc. Plans together with further information obtainable from Supervising Supt. of Veterans' Hospital, Palo Alto.

SAN DIEGO, Cal. — Until 11 A. M., August 27, bids will be received by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., to furnish and install 55,000-bbl. steel tank and piping at the Naval Operating Base (Fuel Depot), San Diego. The work also involves earth and concrete work, steel and iron and electrical work. Spec. No. 6155. Bidding data obtainable from the Public Works Officer, Eleventh Naval District, San Diego, upon deposit of \$10.

Plans Being Figured—Bids Close Sept. 3, 11 A. M.
PIER EXTENSION Cost, \$—
SAN DIEGO, Calif. Naval Operating Base (Air Station).
Reinforced concrete pier extension.
Owner—U. S. Government (Specification No. 6239).

Engineer—Bureau of Yards and Docks, Navy Dept., Washington, D. C.
Plans obtainable from the Bureau of Yards and Docks on deposit of \$10, returnable.

SAN FRANCISCO—C. Jorgensen Co., 604 Mission St., at \$3385 submitted lowest bid to Constructing Quartermaster, Fort Mason, to enclose part of main Corridor No. 36 at Letterman General Hospital. Following is a complete list of bids received:

C. Jorgensen Co.	\$3385
E. G. Hart	3400
Lewis Henzel	3785
McCarthy & Johanns	3875
F. J. Reilly	3889
Clancy Bros.	3963
J. P. Fletcher	4061
Herman Wolter	4354
P. F. Spidell	4747
Joell Johnson	4836
J. F. Linder	4840
Farnocchia & Co.	6875
I. Epp & Son	6875

Bids held under advisement.
DENVER, Colo. — Until Aug. 14, bids will be received by the Bureau of Reclamation, Denver, for one 2-column motor operated hydraulic compressor machine of 2,000,000-lb. capacity.

Contract Awarded.
PAINTING Cost, \$890
SAN FRANCISCO, Presidio.
Interior painting of laundry building No. 24 at Letterman General Hospital.
Owner—United States Government.
Architect—Constructing Quartermaster, Fort Mason.
Contractor—E. Kahler, 723 Baker St.

YAKIMA, Wash. — Until August 18, bids will be received by Superintendent, U. S. Indian Irrigation Service, Yakima, to furnish and install two motor driven pumping units for Satus Pumping Plant. Specifications obtainable from above.

PHOENIX, Ariz. — Until August 15, bids will be received by Superintendent, U. S. Indian School, Phoenix, to furnish and deliver one concrete mixer for use at the sanatorium. Specifications obtainable from above.

PHOENIX, Ariz. — Until August 21, 2 P. M., bids will be received by Superintendent, U. S. Indian School, Phoenix, to furnish and deliver 180 seamless steel, hot roll boiler tubes, not less than 120-in. thick O. D. 3½-inx18-in. long. Further information obtainable from above. Specifications may be seen at U. S. Indian Warehouse in San Francisco.

QUARRY HEIGHTS, C. Z. — Until September 22, under Circular No. 1,

bids will be received by Department Quartermaster, Panama Canal Department, Quarry Heights, for constructing 3 field officers' quarters, 32 company officers' quarters, 27 duplex non-commissioned officers' quarters, 2 110-men a. c. barracks and 2 200-men a. c. barracks, including site grading involving earth and rock excavation, and the roads, walks, water lines, drainage, etc., Albrook Field, C. Z. Deposit of \$50 required for plans, obtainable from above. The work includes excavating and embankment, roads and walks, water distribution and fire protection, storm sewer system, sanitary sewer system, electrical distribution and lighting culvert under Gaillard highway and barracks area, etc.

DENVER, Colo. — Following bids received by U. S. Bureau of Reclamation, Denver, under Specification No. 512, for one 6000 horsepower vertical hydro-electric unit:

Item 1, 6000-horsepower turbine; 2, pressure regulator, 3, butterfly valve; a, combination bit, items 1, 2 and 3; 4, 5000 kva generator; 5, 4 1667 kva transformers; 6- switchboard and miscellaneous appurtenances; b, combination bid, items 4, 5 and 6.

Allis-Chalmers Mfg. Co., Milwaukee, Wis., item 1, \$45,900; 2, \$8100; 3, \$11,300; a, \$69,400; 4, \$81,331; 5, \$17,160; 6, \$5840.

Newport News Shipbuilding & Dry Dock Co., Newport News, Va., item 1 \$41,200; 2, \$7067; 3, \$10,133; a, \$53,750.
S. Morgan Smith Co., York, Pa., item 1, \$44,300; 2, \$7650; 3, \$11,250; a, \$61,500.

Pelton Water Wheel Co., San Francisco, item 1, \$45,125; 2, \$7780; 3, \$11,210; a, \$62,000.

Chapman Valve Mfg. Co., Indian Orchard, Mass., item 3, \$7790.

Joshua-Hendy Iron Works, San Francisco, item 3, \$5790.

Westinghouse Electric & Mfg. Co., East Pittsburgh, item 4, \$27,315; 5, \$16,564; 6, \$1550; b, \$48,429.

General Electric Co., Schenectady, N. Y., b, \$47,130.

Wagner Electric Corp., St. Louis, item 5, \$16,056.

Kuhlman Electric Co., Bay City, Mich., item 5, \$16,130.

American-Brown-Boveri Co., Camden, N. J., item 5, \$15,620.

Maloney Electric Co., St. Louis, item 5, \$16,640.

Waltham Corp., New York City, item 5, \$15,008.

Condit Electric Mfg. Co., Boston, Mass., item 6, \$5358.

WALLA WALLA, Wash. — Until September 2, 11 A. M. bids will be received by the Supervising Superintendent of Construction, U. S. Veterans' Hospital, Palo Alto, Calif., to erect additions to Hostess' House at Veterans' Hospital at Walla Walla. Plans, together with further information obtainable from above.

Bids Opened.
WARD BLDGS. Cost, \$150,000
SAN FRANCISCO, Presidio of San Francisco.

Three reinforced concrete ward buildings at Letterman General Hospital.

Owner—United States Government
Architect—Constructing Quartermaster, Fort Mason, San Francisco.

This project will be known as Ward Nos. 5, 22 and 24. Will be two-story, each ward containing 68 beds, each equipped with radio communications. Tile roof, terrazzo and tile and rubber floors; tile wainscoting. Each structure will contain 22 basins, 10 water closets, 4 slop sinks, 2 bed

pan sterilizers, battery of instruments and dressing sterilizers, surgery, stainless steel steam tables, sinks, tables, dish warmers and tray racks, nurses' call system, drinking fountain and fixtures.

Following is a complete list of bids with the alternates:

Prop. 1, three buildings complete, excepting plumbing, heating and electrical work.

Prop. 2, building No. 22, excepting plumbing, heating and electrical work.

Prop. No. 3, building 24, excepting plumbing, heating and electrical work.

Prop. No. 4, building 5, excepting plumbing, heating and electrical work.

Prop. No. 5, plumbing on three buildings.

Prop. No. 6, plumbing on building 5.

Prop. No. 7, plumbing on building 22.

Prop. No. 8, plumbing on building 24.

Prop. No. 9, heating on all three buildings.

Prop. No. 10, heating on building 5.

Prop. No. 11, heating on building 22.

Prop. No. 12, heating on building 24.

Prop. No. 13, electrical work on three buildings.

Prop. No. 14, electrical work on building 5.

Prop. No. 15, electrical work on building 22.

Prop. No. 16, electrical work on building 24.

Frank J. Reilly, 6350 Fulton St. San Francisco (1) \$104,432; (2) \$—;

(3) \$66,958 (buildings 22 and 24 combined); (4) \$37,443; (5) \$—.

F. L. Hansen (1) \$106,600.

Spivock & Spivock (1) \$107,900; (2) \$34,000; (3) \$35,300; (4) \$40,100.

Young & Horstmeier (1) \$108,575; (2) \$35,236; (3) \$35,372; (4) \$37,239.

Monson Bros. (1) \$108,804.

Anderson & Ringrose (1) \$110,348; (2) \$35,513; (3) \$35,824; (4) \$40,441.

Mahony Bros. (1) \$110,400; (2) \$35,403; (3) \$35,818; (4) \$39,537.

Mission Concrete Co. (1) \$112,312; (2) \$36,291; (3) \$36,272; (4) \$39,794.

(5) \$28,992; (6) \$7839; (7) \$7893; (8) \$13,200; (9) \$6875; (10) \$2314; (11) \$2184; (12) \$2277; (13) \$10,621; (14) \$3496; (15) \$3496; (16) \$3629.

C. C. W. Haun (1) \$113,500.

H. L. Petersen (1) \$114,052; (2) \$36,298; (3) \$36,591; (4) \$41,163.

James L. McLaughlin Co. (1) \$114,946; (2) \$37,813; (3) \$38,045; (4) \$43,432.

George Swanstrom, Oakland (1) \$115,814.

MacDonald & Kahn, San Francisco (1) \$115,945; (2) \$37,234; (3) \$37,110; (4) \$41,601; (5) \$32,541; (6) \$9136; (7) \$8785; (8) \$14,620; (9) \$7035; (10) \$2310; (11) \$2310; (12) \$2415; (13) \$8790; (14) \$2875; (15) \$2875; (16) \$3040.

Vogt & Davidson (1) \$115,969; (2) \$37,324; (3) \$37,840; (4) \$41,263.

J. S. Hannah (1) \$116,644; (2) \$37,444; (3) \$37,914; (4) \$41,266; (5) \$32,313; (6) \$9897; (7) \$8332; (8) \$14,494; (9) \$6700; (10) \$2000; (11) \$2300; (12) \$—; (13) \$11,704; (14) \$3856; (15) \$3856; (16) \$3992.

Meyer Bros. (1) \$117,313; (2) \$37,706; (3) \$37,876; (4) \$41,866.

F. C. Amoroso & Son (1) \$118,900.

Sorensen & Hagmark (1) \$119,655; (2) \$35,218; (3) \$33,133; (4) \$43,300.

Jacks & Irvine (1) \$122,109; (2) \$38,836; (3) \$38,860; (4) \$44,536.

J. J. Grodem & Co., Alameda (1) \$124,560; (2) \$40,932; (3) \$40,869; (4) \$43,990.

P. F. Speidel (1) \$127,900.

L. Dioguardi (1) \$132,500; (2) \$44,000; (3) \$40,000; (4) \$49,000.

R. L. McLean & Co. (1) \$132,890; (2)

\$42,993; (3) \$42,965; (4) \$46,932.

Electrical Work

Mechanical Contracting Co., 83 Shipley St. (13) \$6460.

C. H. Armstrong (13) \$8374; (14) \$2740; (15) \$2740; (16) \$2894.

Globe Electric Co. (13) \$8725; (14) \$2855; (15) \$2865; (16) \$3005.

Collins Electric Co., Stockton (13) \$9139; (14) \$3013; (15) \$3013; (16) \$3113.

H. S. Little (13) \$9199; (14) \$3207; (15) \$3207; (16) \$2785.

F. D. Wilson (13) \$9265; (14) \$3080; (15) \$3800; (16) \$3285.

Price-Morr (13) \$9375.

Strom & Smith (13) \$10,300; (14) \$3370; (15) \$3370; (16) \$3560.

Electric Service Co. (13) \$10,327; (14) \$3533; (15) \$3553; (16) \$3561.

Smith Electric Co. (13) \$10,566; (14) \$3484; (15) \$3484; (16) \$3598.

Atlas Elec. & Eng. Co. (13) \$10,621; (14) \$3496; (15) \$3496; (16) \$3629.

Severin Electric Co. (13) \$10,917.

Moses & Reiser (13) \$11,737; (14) \$4100; (15) \$4100; (16) \$4100.

M. E. Ryan, Redwood City (13) \$11,986; (14) \$3660; (15) \$3660; (16) \$4660.

Plumbing

Scott Co., 243 Minna St. (5) \$28,787; (6) \$8040; (7) \$7859; (8) \$12,925.

Burnham Plumbing Co. (5) \$29,636; (6) \$8585; (7) \$8348; (8) \$13,604.

Thomas Skelley (5) \$29,780; (6) \$8373; (7) \$8065; (8) \$13,624.

F. W. Snook (5) \$30,715; (6) \$8608; (7) \$3568; (8) \$14,540.

George Frankel (5) \$31,026; (6) \$8791; (7) \$8158; (8) \$13,694.

Herman Lawson Co. (5) \$33,972; (6) \$9857; (7) \$9857; (8) \$15,230.

Heating

J. A. Nelson, Tenth and Howard Sts. (9) \$6665; (10) \$2200; (11) \$2200; (12) \$2300.

George Rehn (9) \$7347; (10) \$2381; (11) \$2353; (12) \$2613.

T. R. Smith (9) \$7436; (10) \$3397; (11) \$2389; (12) \$2650.

A. G. Atwood (9) \$7400; (10) \$2400; (11) \$2400; (12) \$2616.

Knittle Bros. (9) \$7485; (10) \$2599; (11) \$2579; (12) \$2624.

Scott Co. (9) \$7541; (10) \$2427; (11) \$2424; (12) \$2687.

Burnham Plumbing Co. (9) \$7600; (10) \$2596; (11) \$2573; (12) \$3172.

George Frankel (9) \$7687; (10) \$2505; (11) \$2505; (12) \$2676.

Thomas Skelley (9) \$8074; (10) \$2694; (11) \$2680; (12) \$2900.

G. F. Brayer (9) \$8750.

Herman Lawson Co. (9) \$9917; (10) \$3299; (11) \$3299; (12) \$3600.

F. W. Snook Co. (9) \$9978; (10) \$3289; (11) \$3274; (12) \$3540.

HALLS AND SOCIETY BUILDINGS

Bids Opened.

CLUB BLDG.

MOUNTAIN VIEW, Santa Clara Co.

Two-story reinforced concrete club building.

Owner—American Legion, Mt. View.

Architect—Alex. A. Cantin, 544 Market St., San Francisco.

Following is a complete list of bids received:

N. N. Hemmings, Mt. View.....\$26,250

P. N. Doyle, Mt. View.....26,677

Neil Darrah, Mt. View.....26,870

The Minton Co., Mt. View.....27,347

Carl Lindholm, Mt. View.....27,700

Bids held under advisement.

Plans Being Completed.

RECREATION BLDG. Cost, \$100,000

EUREKA, Humboldt Co., Calif.

Two-story reinforced concrete recreational building (swimming pool, bowling alleys, etc.)

Owner—Interstate Recreation Corp., Ltd., J. B. Munjar, Phelan Bldg., San Francisco, president.

Architect—Joseph L. Stewart, Federal Reserve Bank Bldg., San Francisco.

Bids will be taken in one week.

Plans Being Completed.

ALTERATIONS Cost, \$—

OAKLAND, Alameda Co., Calif. 732

Fourteenth St.

Alterations and additions to Jewish Community Center.

Owner—Jewish Federation, premises.

Architect—W. E. Schirmer, 709 21st St., Oakland.

Bids will be taken in one week.

Plans Being Revised.

RECREATION BLDG. Cost, \$125,000

WATSONVILLE, Santa Cruz Co., Cal.

Two-story reinforced concrete recreation building.

Owner—Interstate Recreation Corp., Ltd., J. B. Munjar, Phelan Bldg., San Francisco, president.

Architect—Joseph L. Stewart, Federal Reserve Bank Bldg., San Francisco.

New bids will be taken at a later date.

Plans Being Figured.

RECREATION BLDG. Cost, \$100,000

SANTA CRUZ, Santa Cruz Co., Cal.

Two-story reinforced concrete recreation building (swimming pool, bowling alleys, etc.)

Owner—Interstate Recreation Corp., Ltd., J. B. Munjar, Phelan Bldg., San Francisco, president.

Architect—Joseph L. Stewart, Federal Reserve Bank Building, San Francisco.

Plans Completed.

SOCIAL HALL Cost, \$20,000

PETALUMA, Sonoma Co., Cal. North Webster St. and Western Ave.

One-story frame social hall (87x150-feet).

Owner—Hermann Sons Lodge.

Architect—Not Given.

Bids will be called for shortly.

Plans Being Figured.

GYMNASIUM Cost, \$35,000

VALLEJO, Solano Co., Cal. York and Santa Clara Streets.

One-story rough brick, stucco or brick tile gymnasium (90x56 feet).

Owner—Naval Y. M. C. A. (H. E. Cunningham manager), Vallejo.

Architect—Eng. Dept. of Owner, New York.

Supl. of Constr.—W. A. Jones, Vallejo

Bids are being received on three propositions, i. e. rough brick, stucco and brick tile. Plans obtainable from H. E. Cunningham, Mgr., Naval Y. M. C. A., Vallejo.

Working Drawings Being Prepared.

MEMORIAL BLDG. Cost, \$60,000

LIVERMORE, Alameda Co., Cal. Fifth and L Streets.

One-story reinforced concrete Veterans' Memorial Building.

Owner—County of Alameda

Architect—H. H. Meyers, Kohl Bldg., San Francisco.

HOSPITALS

Plans Being Prepared.

ADDITION Cost, \$280,000

TUCSON, Arizona.

100-bed addition to Veterans' Hospital.

Owner—United States Government.

Architect—Constructing Superintendent of U. S. Veterans' Bureau, Palo Alto.

Bids will probably be called for this fall.

Plans Being Completed.
COTTAGE, ETC. Cost, \$20,000
SACRAMENTO, Sacramento Co., Cal.
 Sutterville Road (Sacramento Orphanage and Children's Home).
 One 2-story frame cottage and one-story brick laundry, 28x60 ft., and boiler room.
 Owner—City of Sacramento.
 Architect—Dean and Dean, California State Life Bldg., Sacramento.
 Bids will be called for in one week.
 Cottages will contain dining room, kitchen, porch, laundry, bedroom, sewing room and living room on the first floor and two dormitories, four dressing rooms, two bathrooms and quarters for the house mother, on the second floor. Previous report was that plans were being prepared for two cottages.

Concrete Materials Contract Awarded
ADDITION Cost, \$—
REDWOOD CITY, San Mateo Co., Cal.
 County Hospital grounds at Berseford.
 Three-story reinforced concrete wing addition to county hospital.
 Owner—County of San Mateo, Elizabeth M. Kneese, County Clerk.
 Architect—Will H. Toepke, Call Bldg., San Francisco.
 Contractor—Sorensen and Haggmark, 2562 Harrison St., San Francisco.
Concrete Materials—H. E. Casey Co., B and Third Sts., San Mateo.

Contract Awarded
HEATING SYSTEM Cost, \$—
ALTURAS, Modoc Co., Cal.
 Furnish and install steam heating plant in county hospital.
 Owner—County of Modoc, L. S. Smith, County Clerk.
 Architect—Ralph D. Taylor, 11 Bell Bldg., Alturas.
 Contractor—Alturas Plumbing & Heating Co., Alturas, at \$2637.
 Following is a complete list of bids received:
 Alturas Plumbing & Heating Co. \$2637
 Luppen & Hawley, Sacramento..... 2900
 Jas. A. Nelson, San Francisco 3075
 L. H. Dahlman, Sacramento..... 3095
 Scott Plumbing & Heating Co., Sacramento..... 3215
 Latourette-Pical Co., Sacto..... 3230
 Wallace M. Walcutt, Oakland..... 3291
 Scott Co., Oakland..... 3935

Bids Wanted—To Close Sept. 2.
NURSES' HOME Cost, \$—
OLIVE VIEW, Los Angeles Co., Cal.
 Olive View Sanitarium.
 One-story frame, stucco and hollow concrete tile nurses' home (48x184 feet).
 Owner—County of Los Angeles.
 Architect—Karl Muck, County Architect, Los Angeles.

Sub-Contracts Awarded.
ADDITION Cost, \$—
REDWOOD CITY, San Mateo Co., Cal.
 County Hospital grounds at Berseford.
 Three-story reinforced concrete wing addition to county hospital.
 Owner—County of San Mateo, Elizabeth M. Kneese, county clerk.
 Architect—Will H. Toepke, Call Bldg., San Francisco.
 Contractor—Horensen and Haggmark, 2562 Harrison St., San Francisco.
Lumber—Sudden Lumber Co., Evans and Quint Sts., San Francisco.
Reinforcing Steel—Concrete Engineering Co., 1250 Indiana St., S. F.
Miscellaneous Iron—Folsom St. Iron Works, 17th and Missouri Streets, San Francisco.
Mill Work—Tilden Lumber Co., 1291 Delaware St., Berkeley.
Finish Hardware—Lee Hardware Co., 151 New Montgomery St., S. F.
Metal Sash—Michel and Pfeffer Iron Works, Harrison and 10th Streets, San Francisco.

Metal Door Jam and Trim—Genfire Steel Products Co., Sheldon Bldg., San Francisco.
Refrigeration—McCray Refrigerator Co., 765 Mission St., San Francisco
Excavating—Smith Bros., Palo Alto.

SAN FRANCISCO—Twenty acres adjacent to McLaren Park in the Mission District will be offered to the Federal Government on which it is proposed to erect a war veteran diagnostic hospital. The offer will be made to General Frank T. Hines, director of the U. S. Veterans' Bureau, when he visits San Francisco next month.

Plans To Be Prepared.
PEST HOUSE Cost, \$3500
SANTA CRUZ, Santa Cruz Co., Cal.
 On County Hospital property.
 Pest House for County Hospital.
 Owner—County of Santa Cruz, H. E. Miller, county clerk.
 Architect—Not Selected.
 Funds to finance will be provided in the 1930-31 budget.

Plans To Be Prepared.
DETENTION HOME Cost, \$5000
 (ultimate cost, \$10,000)
SANTA CRUZ, Santa Cruz Co., Calif.
 On County Hospital property.
 First unit of county detention home.
 Owner—County of Santa Cruz, H. E. Miller, county clerk.
 Architect—Not Selected.
 Funds to finance will be provided in the 1930-31 budget.

Preliminary Plans Approved.
HEALTH CENTER Cost, \$800,000
SAN FRANCISCO, Polk and Grove Streets.
 Four-story and basement reinforced concrete class A health center, emergency hospital and offices (granite facing).
 Owner—City and County of San Francisco.
 Architect—S. Helman, 57 Post Street
 The structure will be financed thru the \$3,000,000 bond issue voted for health buildings throughout the city. The present two-story Emergency Hospital will be used in the construction of the new building and additional property will be purchased for the new structure.

Plans Being Completed.
HOME Cost, \$50,000
OAKLAND, Alameda Co., Calif. East 29th St.
 Two-story class C concrete home for aged.
 Owner—Salem Lutheran Benevolent Assn., Oakland.
 Architect—Henry H. Guttererson, 526 Powell St., San Francisco.
 Bids will be taken in two weeks.

Contract Awarded.
DORMITORY Cost, \$150,000
LOS ANGELES, Cal. Sixth and Louis Streets.
 Three-story and basement Class A reinforced concrete dormitory (176x88 feet).
 Owner—Santa Fe Hospital Assn.
 Architect—Eng. Dept. of Owner.
 Contractor—Lynch Construction Co., 730 Merrill St., Los Angeles.

Inchener Contract Awarded.
HOSPITAL Cont. Price, \$341,650
PALO ALTO, Santa Clara Co., Cal.
 On State Highway north of Palm Drive.
 Four-story reinforced concrete hospital (100-bed capacity).
 Owner—City of Palo Alto.
 Architect—Reed & Corlett, Oakland Bank Bldg., Oakland.
 Contractor—K. E. Parker, 135 South Park, San Francisco.
Incinerator—Kerner Incinerator Co., 450 Clementina St., San Francisco.

SANTA BARBARA, Cal.—Santa Barbara County Supervisors have provided \$100,000 in the tentative budget for financing an addition to the county hospital.

Additional Sub-Contracts Awarded.
LABORATORY Cost, \$17,410
SAN FRANCISCO, Sutter and Scott Streets.
 One-story brick addition to laboratory building.
 Owner—Mt. Zion Hospital.
 Architect—Arthur Brown, Jr., 251 Kearny St.
 Contractor—Barrett & Hilp, 918 Harrison St.
Concrete—Golden Gats Atlas Materials Co., 16th and Harrison Sts.
Painting—J. H. Devert Co., 912 Harrison St.
Structural Steel—Golden Gate Iron Works, 1511 Howard St.
Sheet Metal—Metals Const. Company.

Commissioned To Prepare Plans.
HOSPITAL Cost, \$—
KING CITY, Monterey Co., Cal.
 Hospital (14-bed capacity).
 Owner—King City Hospital Assn.
 Architect—H. Bruce Douglas, Green-

will consist of 2 wards, each with capacity of four beds, and six private rooms, each with bath and toilet; X-ray room, obstetrical room, kitchen, etc.

HOTELS

Plans Completed.
HOTEL Cost, \$150,000
REDLANDS, San Bernardino Co., Cal.
 Four-story Class C brick hotel (75 rooms).
 Owner—Boos Bros. Interests.
 Architect—Milton R. Sutton, 6607 Sunset Blvd., Los Angeles.

Sub-Bids Wanted.
ADDITION Cost, \$125,000
MODESTO, Stanislaus Co., Cal. Hotel Covell.
 Additions to hotel.
 Owner—Hotel Covell, Modesto.
 Architect—A. W. Cornelius, 74 New Montgomery St., San Francisco.
 Contractor—E. K. Nelson Bldg. Co., 557 Market St., San Francisco.

Sub-bids are wanted on plastering, tile work, sheet metal and ornamental iron. Plans may be seen on the premises at Modesto.

Working Drawings Being Prepared.
HOTEL Cost, \$250,000
SONORA, Tuolumne Co., Cal.
 Three-story reinforced concrete tourist hotel.
 Owner—Wilson Investment Company.
 Architect—Edwards and Schary, 605 Market St., San Francisco.
 Plans will be ready for bids in about thirty days.

Plans Being Figured.
HOTEL Cost, \$—
SANTA BARBARA, Cal. East Blvd. Two and three-story frame and stucco hotel (82 rooms).
 Owner—Fred Bartholomew et al.
 Architect—Walker & Eisen, Western Pacific Bldg., Los Angeles.
 Clay tile and composition roofing, ornamental iron work, hardwood floors, steel and wood sash, cast stone trim, tiled bathrooms and showers, steam heat, ventilating system, elevator, kitchen equipment. All work, except the kitchen equipment, will be included in the general contract.

ICE AND COLD STORAGE PLANTS

HEALDSBURG, Sonoma Co., Cal.—C. A. Perry, local insurance broker, announces formation of a company to

finance construction of a \$200,000 community cold storage plant for Healdsburg. The local chamber of commerce is interested in the project.

POWER PLANTS

PASADENA, Cal.—Consolidated Steel Corp., 1200 N. Main St., Los Angeles, awarded contract by the city at \$123,151 to furnish boilers for new addition to generating works of the municipal light and power department. Contract for air pre-heaters was awarded to the Foster-Wheeler Co. of New York at \$29,460 and the Air Pre-Heater Corp. the contract for water walls for boilers at \$29,475.

DENVER, Colo.—See "Government Work and Supplies," this issue. Bids received by U. S. Reclamation Service for 6000 hp. vertical hydro-electric plant.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

Plans Being Figured.
JAIL Cost, \$480,000
LOS ANGELES, Cal. Lincoln Heights.
Five-story and basement reinforced concrete jail.
Owner—City of Los Angeles.
Architect—Los Angeles City Constr. Dept., C. O. Brittain, Supt.

Suh-Contracts Awarded.
CITY HALL Cont. Price, \$7950
MORGAN HILL, Santa Clara Co., Cal. One-story brick city hall.
Owner—City of Morgan Hill.
Architect—A. W. Story, Pajaro Valley Bank Bldg., Watsonville.
Contractor—Nils E. Johnson, 270 Monterey Blvd., San Francisco.
Lumber—Sterling Lumber Co., Morgan Hill.
Mill Work—Alfred Jensen, San Martin Steel—Concrete Engineering Co., 1250 Indiana St., San Francisco.
Steel Sash—Michel & Pfeffer Iron Works, Harrison and Tenth Sts., San Francisco.
Roofing—F. Hayden, San Jose.
Plumbing—H. Williamson Co., 1738 Howard St., San Francisco.
Plastering—S. Riguel, Morgan Hill.
Glass—W. P. Fuller & Co., 361 Mission St., San Francisco.
Sheet Metal—New Mission Sheet Metal Works, San Francisco.
Electric Work—Wm. Pellon, Morgan Hill.

Plans Being Completed.
JAIL Cost, \$100,000
SALINAS, Monterey Co., Cal. Fireproof county jail (accommodation for 100 prisoners; concrete or brick construction).
Owner—County of Monterey.
Architect—Reed and Corlett, Oakland
Bank of Savings Bldg., Oakland.
Bids will be taken in about three weeks.

Bids Opened.
FIXTURES Cost, \$—
BERKELEY, Alameda Co., Citi Shattuck Ave. and Kitttridge St.
Furnish and install electric fixtures in public library.
Owner—City of Berkeley, Florence E. Turner, City Clerk.
Architect—James W. Plachek, Mercantile Bank Bldg., Berkeley.
Maxwell Hardware Co., 1320 Washington St., Oakland.....\$6990
Roberts Mfg. Co., San Francisco. 7675
Boyd Light Fixture Co., S. F.....7890
Bids held under advisement.

SALINAS, Monterey Co., Cal.—Until September 2, bids will be received by county supervisors to construct 3-cell jail at Gonzales. Specifications obtainable from county clerk at Salinas.

RESIDENCE

Plans Being Prepared.
RESIDENCES Cost, \$6000 and \$7000
WILLOW GLEN, Santa Clara Co., Cal. Twenty-seven, stately and basement frame and stucco residences (4-5 and 6-rooms).
Owner—T. H. Herschback, T w o h y Bldg., San Jose.
Architect—Charles McKenzie, Twohy Bldg., San Jose.
Construction on the first group will be started in about two weeks.

Plans Being Prepared.
RESIDENCE Cost, \$25,000
LOS GATOS, Santa Clara Co., Cal. Two-story frame and stucco residence.
Owner—N. T. Bradford, president Western Well Drilling Co., 522 W Santa Clara St., San Jose.
Plans by George Kocher, Commercial Bldg., San Jose.
Bids will be called for about Sept. 1.

Contract Awarded.
ALTERATIONS Cost, \$—
SANTA CRUZ, Santa Cruz Co., Calif. Santa Cruz Mountains.
Alterations and additions to one-story frame summer house (Colonial style).
Owner—Fritz Henshaw, 1774 Broadway, Oakland.
Architect—Sidney B. Noble & Archie Newsom, Federal Realty Building, Oakland.
Contractor—Grant Kenville, Ben Lomond.

Contract Awarded.
RESIDENCES Cost, \$12,600
COLMA, San Mateo Co., Cal. San Pedro Avenue.
Two frame and stucco residences.
Owner—Columbia Benevolent Society, Colma.
Architect—Louis Mastropasqua, 580 Washington St., San Francisco.
Contractor—G. Cristina, Colma.

Plans Being Figured.
RESIDENCE Cost, \$10,000
RED BLUFF, Tehama Co., Cal. Two-story frame and stucco residence
Owner—Lawrence Kennedy.
Architect—Chester Cole, Chico, Calif.

Bids Opened—Held Under Advisement
ALTERATIONS Cost, \$—
SANTA CRUZ, Santa Cruz Co., Calif. Santa Cruz Mountains.
Alterations and additions to one-story frame summer house (Colonial style).
Owner—Fritz Henshaw, 1774 Broadway, Oakland.
Architect—Sidney B. Noble & Archie Newsom, Federal Realty Building, Oakland.
Bids are now in owner's hands for consideration.

Plans Being Completed.
RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Cal. North Cragmont.
Two-story frame and stucco residence (6 rooms).
Owner—E. L. Snyder, 2101 Shattuck Ave., Berkeley.
Plans by Owner.
Bids will be taken in one week.

Working Drawings Being Prepared.
RESIDENCE Cost, \$15,000
LAKEPORT, Lake Co., Cal. Two-story and basement frame and stucco residence (8 rooms).
Owner—Herbert V. Keeling.
Architect—Chas. Strothoff, 2274 15th St., San Francisco.

Plans Being Completed
RESIDENCE Cost, \$18,000
SAN RAFAEL, Marin Co., Cal. Two-story and basement frame and stucco residence (2 rooms, 2 baths)
Owner—Harry Albert, San Rafael
Architect—S. Helman, 57 Post Street San Francisco.
Bids will be taken in one week.

Owner Taking Bids.
RESIDENCE Cost, \$15,000
BERKELEY, Alameda Co., Cal. Park View.
Two-story frame and stucco residence (11 rooms).
Owner—H. W. Bernhelm, 266 Wildwood Ave., Berkeley.
Architect—E. L. Snyder, 2101 Addison St., Berkeley.

Plans Being Revived.
RESIDENCE Cost, \$15,000
BERKELEY, Alameda Co., Cal. Euclid Avenue.
Two-story frame and stucco residence
Owner—F. Foster.
Architect—E. L. Snyder, 2101 Addison St., Berkeley.
New bids will be called for at a later date.

Bids In—Under Advisement.
RESIDENCE Cost, \$20,000
SAN FRANCISCO. Miraloma Drive.
Two-story and basement frame and stucco residence.
Owner—E. B. Ward, 10th and Howard Streets.
Architect—Harold G. Stoner, 220 3rd Ave., San Mateo.
Contractor will be announced within one week.

Contract Awarded.
RESIDENCE Cost, \$15,000
NAPA, Napa Co., Cal. Two-story frame and stucco residence (12 rooms, 3 baths, 3-car garage).
Owner—M. Jennings.
Plans by D. E. Jackie, Cal Bldg., San Francisco.
Contractor—Jas. E. Burke, 1494 Guerrero St., San Francisco.
Construction will be started immediately.

Contract Awarded.
RESIDENCE Cost, \$7000
SAN FRANCISCO. 39th Ave. S Clement Street.
Two-story and basement frame and stucco residence
Owners—L. M. Stuckel and M. A. Warswick, 1927 Sutter St.
Plans by W. Wethered, 16 Turk St.
Contractors—A. F. and G. W. Matlock, 210 California St.

To Be Done By Day's Work By Owner
RESIDENCE Cost, \$10,000
OAKLAND, Alameda Co., Cal. North Trestle Glen Road S Sunnyhill.
Two-story frame and stucco residence (6 rooms)
Owner and Builder—W. A. Netherby, 3853 Lyman Road, Oakland
Architect—None.

Contract Awarded.
RESIDENCE Cost, \$15,000
SACRAMENTO, Sacramento Co., Cal. Forty-fifth Street.
Two-story brick veneer residence.
Owner—Charles H. Carter, 1373 42nd Ave., Sacramento.
Architect—Chas. F. Dean (formerly of Dean & Dean), California State Life Bldg., Sacramento.
General Work
N. H. Lund, 3300 Cutter St., Sacramento.....\$12,910
Electrical Work
Scott Plumbing & Electric Co., 1200 M St., Sacramento.....\$448
Heating
Laurerette-Fical Co., 900 Franklin St., Sacramento.....\$1000

Plans Being Prepared.
RESIDENCE Cost, \$25,000
BERKELEY, Alameda Co., Cal. Claremont Pines.
Two-story frame and stucco residence and garage (9 rooms).
Owner—Withheld.
Architect—Masten & Hurd, Shreve Bldg., San Francisco.
Bids will be taken in about two weeks.

Contract Awarded.
RESIDENCE Cost, \$—
MONTEREY, Monterey Co., Cal. 17-Mile Drive.
One-story frame and stucco residence (6 rooms).
Owner—E. A. William Jr., 346 Bay View Ave., Pacific Grove.
Architect—Swartz & Ryland, Spazier Bldg., Monterey.
Contractor—M. J. Murphy, Carmel.

Construction Started.
RESIDENCE Cost, \$19,000
BAYWOOD, San Mateo Co., Cal.
Two-story frame and stucco residence (10 rooms).
Owner—Chas. Hammer, Burlingame.
Architect—Chas. Strothoff, 2274 15th St., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Cal.
Owner—P. L. Placke.
Architect—Swartz & Ryland, Spazier Bldg., Monterey; 373 Main St., Salinas, and Brix Bldg., Fresno.
Contractor—C. H. Thrans, 28 Home Place, Oakland.

Contract Awarded.
RESIDENCE Cost, \$7000
BERKELEY, Alameda Co., Cal. No. 1868 San Juan Avenue.
Two-story frame and stucco residence (6 rooms).
Owner—Richard Josbeck, 926 Hildale Ave., Berkeley.
Plans by T. Carlson.
Contractor—T. Carlson, 1705 Curtis St., Berkeley.

Preliminary Plans Completed.
RESIDENCE Cost, \$—
SACRAMENTO, Sacramento Co., Cal.
Two-story frame and stucco residence.
Owner—Florence M. Johnson.
Architect—Frederick S. Harrison, P. O. Box 873, Sacramento.
Working drawings will be started shortly.

Plans Being Figured.
RESIDENCE Cost, \$12,000
HILLSBOROUGH, San Mateo Co., Cal. Roblar Road.
Two-story and basement frame and stucco residence (8 rooms).
Owner—T. H. Breeze.
Architect—Willis Polk & Co., 277 Pine St., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$10,000
BERKELEY, Alameda Co., Cal. Arington Court.
Two-story frame and stucco residence (6 rooms).
Owner—The Misses Stewart.
Architect—Hardman & Russ, Berkeley Bank Bldg., Berkeley.
Contractor—Wilbur C. Cone, 1744 Broadway, Oakland.

Plans Being Prepared.
RESIDENCE Cost, \$15,000
SAN MATEO PARK, San Mateo Co., Calif.
Two-story and basement frame and stucco residence (8 rooms, 3 baths).
Owner and Builder—Allan McIntyre,

446 Highland, San Mateo.
Plans by Grimes & Schoening, Balovich Bldg., San Mateo.

Sub-Bids Wanted.
RESIDENCE Cost, \$9500
SAN FRANCISCO. San Aliso Way.
One-story and basement frame and stucco residence (7 rooms).
Owner and Builder—A. J. Herzig, 1945 Ocean Ave.
Plans by D. E. Jaekle, Call Bldg.

Sub-Bids Being Taken.
RESIDENCE Cost, \$9500
SAN FRANCISCO. Westgate Dr. near Darien Way.
One-story and basement frame and stucco residence (6 rooms).
Owner and Builder—G. W. Morris, 730 Athens St.
Plans by D. E. Jaekle, Call Bldg.

Sub-Bids Being Taken.
RESIDENCES Cost each, \$3000
MILLBRAE HIGHLANDS, San Mateo Co., Cal.
Two 1-story and basement frame and stucco residences (5 rooms each).
Owner—Gus Moeller, 6260 Geary St., San Francisco.
Plans by D. E. Jaekle, Call Bldg., San Francisco.
Contractor—Schultz Const. Co., Millbrae Highlands.

Sub-Bids Being Taken.
RESIDENCE Cost, \$5000
MILLBRAE HIGHLANDS, San Mateo Co., Cal.
One-story and basement frame and stucco residence (5 rooms).
Owner and Builder—E. V. Egen, 280 Elder Ave., Millbrae Highlands.
Plans by D. E. Jaekle, Call Bldg., San Francisco.

Sub-Bids Being Taken.
RESIDENCE Cost, \$6500
SAN FRANCISCO. Crocker Tract.
One-story and basement frame and stucco residence (5 rooms).
Owner and Builder—John Bjorkman, 316 Naylor St.
Plans by D. E. Jaekle, Call Bldg.

Plans To Be Prepared.
RESIDENCE Cost, \$12,500
SAN FRANCISCO. Monterey Blvd.
Two-story frame and stucco residence (10 rooms, 3 baths).
Owner & Builder—G. W. Stanley, 467 Turk St.
Plans by D. E. Jaekle, Call Bldg.

Plans To Be Prepared.
RESIDENCE Cost, \$7250
SAN FRANCISCO. 18th Avenue near Lawton St.

One-story and basement frame and stucco residence (5 rooms).
Owner and Builder—A. Halsen, 2427 25th Ave.
Plans by D. E. Jaekle, Call Bldg.

Contract Awarded.
RESIDENCE Cost, \$10,000
BERKELEY, Alameda Co., Cal. 438 Vermont Ave.
Two-story frame and stucco residence (8 rooms).
Owner—J. E. Wing, 2237 Summer St., Berkeley.
Plans by Builders.
Contractor—Armstrong & Gates, 947 Ordway St., Berkeley.

Tile Bids Wanted.
RESIDENCE Cost, \$20,000
OAKLAND, Alameda Co., Cal. Claremont Pines.
Two-story brick veneer residence (12 rooms).
Owner and Builder—J. M. Walker, 1709 Grove St., Berkeley.
Plans by Owner.
Slate Roofing—M. H. Wisely, 2911 Adeline St., Berkeley.
Plastering—Hoffman & Moore.

SCHOOLS

Low Bidder.
ADDITION Cost, \$—
MODESTO, Stanislaus Co., Cal.
Washington Elementary School.
Class C brick and plaster addition to school (tile roof, maple floors, etc.).
Owner—Modesto School District.
Architect—Davis-Pearce Co., Grant and Weber Sts., Stockton.
Low Bidder—J. L. Ward, Modesto, at \$3535.
Contract to be awarded August 7.

Bids Opened.
GYMNASIUM Cost, \$—
COURTLAND, Sacramento Co., Cal.
Completion of gymnasium building.
Owner—Courtland Joint Union High School District, S. Mercer Runyon, secretary.
Architect—V. E. Coffman, 437 Forum Bldg., Sacramento.
Following is a complete list of bids:
(1) gymnasium; (2) alterations and addition to high school.
C. J. Hopkinson, 1318 25th St., Sacramento, (1) \$8,890; (2) \$5,394.
A. Peterson, Sacramento (1) \$8,890; (2) \$5,362.
Geo. W. Kopp, Sacramento \$13,458 (combined bid).
Bids held under advisement.

ORNAMENTAL WIRE AND IRON WORK

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Plumbing Contract Awarded
SCHOOL Cont. Price, \$49,474
SANTA CRUZ, Santa Cruz Co., Cal.
 One-story concrete school building
 (Gault School).

Owner—Santa Cruz School District.
 Architects—A. I. Coffey, Phelan Bldg.,
 and M. J. Rist, 760 Market St.,
 San Francisco.

Contractor—Wilson & McCranahan,
 75 Ocean Ave., Santa Cruz.
Plumbing—Izant & Wilson, Santa
 Cruz.

As previously reported electric work
 awarded to Roy M. Butcher, 1020
 Sherwood St., San Jose, at \$2248.

Bids Opened.
HEATING SYSTEM Cost, \$3500
MODESTO, Stanislaus Co., Cal. Wash-
 ington and Lincoln Schools.
 Convert electric heating to steam
 heating system.

Owner—Modesto School District.
 Architect—Davis-Pearce Co., Grant &
 Weber Sts., Stockton.

Following is a complete list of bids:
 D. R. Hoffman, Modesto.....\$3,298
 Miller-Hays Co., Stockton.....3,798
 H. A. Trueblood, Modesto.....3,990
 J. Kennedy, Modesto.....4,424
 Contract to be awarded to low bid-
 der August 17th.

Bids Opened.
CLASSROOMS \$18,000 available
MODESTO, Stanislaus Co., Cal.
 Agricultural unit for high school (2
 classrooms, laboratories and of-
 fices).
 Owner—Modesto City School Dist., (J.
 H. Bradley, city superintendent of
 schools).

Architect—Davis-Pearce Co., Grant &
 Weber Sts., Stockton.

Following is a complete list of bids:
 M. Varozza, Modesto.....\$17,136
 F. Uebels, Ripon.....18,245
 M. Ward, Modesto.....18,245
 H. Tenneyson, Modesto.....18,600
 C. Adams, Modesto.....18,630
 E. W. Hart, Modesto.....18,873
 Mr. Neil.....18,876
 W. Green, Modesto.....19,985
 Harry Brown, Modesto.....19,988
 D. Redman, Modesto.....21,979
 Contract will be awarded August 7.

Commissioned To Prepare Plans.
SHOP Cost, \$—
CORNING, Tehama Co., Cal.
 One-story frame shop building.
 Owner—Corning Union High School
 District.
 Architect—Starks & Flanders, Forum
 Bldg., Sacramento.

HOLLISTER, San Benito Co., Cal.
 Until August 16, bids will be received
 by trustees of the Hollister Grammar
 School District for painting Fremont
 school. Specifications obtainable from
 above.

BERKELEY, Alameda Co., Cal.—
 Heafey-Moore Co., 344 High St. at
 \$1,345 awarded contract by secretary,
 Board of Education, 2325 Milvia St.,
 to resurface lower playground of
 Cragmont School, between Regal Rd.,
 Spruce St. and Marin Ave.

The only other bid was submitted
 by Lee J. Imell, at \$2,244.

OAKLAND, Alameda Co., Cal.—
 Following bids received by Board of
 Education, for painting Durant
 School:

Walter Blumert Co., 5125 Grove St.
 Oakland.....\$ 895
 Patterson Bros.....920
 J. A. Turgeon.....1082
 Piedmont Decorating Co.....1887
 Harry McManus.....2768

Bids referred to District Attorney
 for award.

OAKLAND, Alameda Co., Cal.—
 Following is a complete list of bids

received by the Board of Education,
 1025 Second Ave., for the removal of
 all concrete foundations and walls,
 tile walls, brick walls, all brick or tile
 flues, all concrete floors and concrete
 steps, concrete footings below ex-
 isting grade to remain, at the Fre-
 mont High School Site at 47th Ave.
 and Pothill Blvd.:

Ariss-Knapp Co., 961 41st St.
 Oakland.....\$2200
 E. J. Suel.....2974
 Western Crane Service Corp.....3335
 Ed. Bowman.....3800
 G. M. Gest.....3950
 Jos. Freitas.....6740
 Heafey-Moore Co.....6995

Bids referred to District Attorney
 for award.

OAKLAND, Alameda Co., Cal.—
 Following bids received by Board of
 Education for painting Santa Fe
 School:

Patterson Bros., 494 36th St.,
 Oakland.....\$ 595
 Walter Blumert Co.....895
 J. A. Turgeon.....1000
 Piedmont Decorating Co.....1547
 Harry McManus.....1888
 C. A. Nettleton.....3446

Bids referred to District Attorney
 for award.

RENO, Nev.—Nevada Plumbing and
 Heating Co., Reno, at \$1,265 awarded
 contract by Reno School District to in-
 stall lawn sprinkler system at B. D.
 Billingshaw Junior High School.

Plans Being Figured—Bids Close Aug.
16, 1:30 P. M.
HEATING PLANT Cost, \$—
FRENCH CAMP, San Joaquin Co.,
 Calif.

Brick boiler building and steam heat-
 ing plant and oil burning equip-
 ment for same.

Owner—French Camp School District,
 J. B. Deaton, clerk, French Camp.
 Architect—Victor Galbraith, 208 Elks'
 Bldg., Stockton.

Certified check 10% payable to clerk
 required with bid. Plans obtainable
 from architect on deposit of \$10, re-
 turnable.

August 4, 1930

Segregated Bids Being Taken

SUNDAY SCHOOL Cost, \$—

VISALIA, Tulare Co., Cal.

Two-story brick Sunday school build-
 ing (50x120 ft.)

Owner—Presbyterian Church Congre-
 gation.

Architect & Supt. of Constr.—Shields,
 Fisher & Lake (R. Lake, archi-
 tect), Pacific Southwest Bldg.,
 Fresno.

The ground floor will contain an
 auditorium, surrounded by 16 class-
 rooms with 13 classrooms on the sec-
 ond floor. Will have stucco exterior.
 Segregated bids are being received

for carpentry, concrete work, rein-
 forcing steel, mill work, sheet metal
 masonry, painting, roofing, electric
 work, plumbing and plastering. Plans
 on file at 417 Bank of Italy Bldg., Vi-
 salia.

Plans Complete.
SCHOOL Cost, \$35,000

HILLSBOROUGH, San Mateo Co., Cal.
 One-story frame and stucco school.
 Owner—Hillsborough School District.
 Architect—Willis Polk Co., 277 Pine
 St., San Francisco.

Plans are awaiting approval of the
 State Board of Education at Sacra-
 mento.

FRESNO, Fresno Co., Cal.—Califor-
 nia-Fresno Oil Co., Fresno, at \$1,265
 awarded contract by West Park School
 District to furnish and install auto-
 matic furnace and heating system,
 storage tank, cement and other work
 at school. Complete list of bidders, all
 of Fresno, follows:

Calif.-Fresno Oil Co.....\$1,265
 Devlin Drew Co.....1,362
 W. Degan Co.....1,510
 Barrett-Hicks Co.....1,521
 Griffin Sheet Metal Works.....1,643

Plans Complete.

SCHOOL Cost, \$250,000

SAN JOSE, Santa Clara Co., Cal.
 Two-story reinforced concrete junior
 high school (Herbert Hoover Jr.
 High School).

Owner—San Jose Board of Education.
 Architect—W. H. Weeks, Hunter-Du-
 lin Building, San Francisco; 4736
 Franklin St., Oakland, and Bank
 of Italy Bldg., San Jose.

Bids will be called for shortly.

Preparing Plans.

AUDITORIUM Cost, \$175,000

LOS ANGELES, Cal. University High
 School Site.

Auditorium building.

Owner—Los Angeles Board of Educa-
 tion.

Architect—A. S. Niabecker, Jr., Los
 Angeles.

Bids Wanted—To Be Opened Aug. 12.

SCHOOL Cost, \$137,000

SANTA ANA, Orange Co., Cal. Wil-
 lard High School Site.

Two-story reinforced concrete brick
 high school (20 classrooms).

Owner—Santa Ana Board of Educa-
 tion.

Architect—Allison & Allison, Cali-
 fornia Reserve Bldg., Los Angeles

TULARE, Tulare Co., Cal.—R. E.
 Rounsaville, Tulare, awarded contract
 for plumbing and sheet metal work
 in connection with the Tulare Union
 High School District bus garage, the
 general contract for which was
 awarded to Jolly & Harrington of
 Fresno at \$6000.

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Plans Being Completed.
SCHOOL Cost, \$150,000
ANTIOCH, Contra Costa Co., Cal. (15 acre site), D Street.
 Two-story brick high school.
 Owner — Antioch Live Oak High School District.
 Architect — Davis-Pearce Co., Grant and Weber Sts., Stockton.
 Bids will be taken in about three weeks.

Contract Awarded.
ADDITION Cost, \$—
SAN JOSE, Santa Clara Co., Calif.
 Downer Ave. and Cottle Road.
 Two-classroom and toilet room addition to school.
 Owner — Oak Grove School Dist., A. L. Anderson, clerk.
 Architect — Charles S. McKenzie, 415 Twoby Bldg., San Jose.
 Contractor — D. Walton, 851 University Ave., San Jose.
 Following are next three lowest bids received:
 D. Walton, San Jose.....\$4,680
 W. Myers, San Jose.....4,760
 M. R. Reese, San Jose.....4,773
 N. J. Nielsen, San Jose.....4,870

Plans Completed.
SCHOOL Cost, \$20,000
WESTLEY, Stanislaus Co., Cal.
 One-story Class C brick or concrete elementary school (4 classrooms; Spanish type).
 Owner — Grayson School District.
 Architect — Davis-Pearce Co., Grant and Weber Sts., Stockton.
 Upon approval plans will be advertised for.

Plans Being Completed.
ADDITION Cost, \$—
MONTREY, Monterey Co., Cal.
 Shop addition, tennis courts, grading girls' playground at high school.
 Owner — Monterey High School Dist.
 Architect — Swartz & Ryland, Spazier Bldg., Monterey; 373 Main St., Salinas, and Brix Bldg., Fresno.
 This work will comprise the first unit of improvement to be undertaken under the recently authorized bond issue.
 Bids will be called for shortly.

Bids To Be Taken Within One Week.
SCHOOL Cost, \$16,000
CAMINO, El Dorado Co., Cal.
 One-story English type stone and brick school (2 classrooms and auditorium).
 Owner — Camino School Department.
 Architect — Coffman, Sahlberg & Stafford, Forum Bldg., Sacramento, and 3529 Emerson St., Oakland.

SAN JOSE, Santa Clara Co., Cal.—Dr. H. Spencer Lewis, imperator of the Rosicrucians, addressing the 1930 convention of the order at San Jose, announced that construction would be started in San Jose after January 1, 1931, on a new unit to the Amore College in Naglee Avenue. The structure will cost \$100,000 and will contain lecture hall, 5 classrooms, complete laboratory for electrical, chemistry, physical and other research and dormitories, to accommodate 100 students. Additional units will be constructed as required.

Plans Completed.
SCHOOL Cost, \$400,000
LOS ANGELES, Cal. No. 3925 Tracy Street.
 Three-story Class A school and two-story Class B home economics building.
 Owner — Los Angeles Board of Education.
 Architect — George M. Lindsey, 1008 W. Sixth St., Los Angeles.

Contract Awarded.
ADDITIONS Cont. Price \$6098
SACRAMENTO, Sacramento Co., Cal.
 Thirty-fourth and W Sts.
 Additions for school.
 Owner — Sacramento City School Dist.
 Chas. C. Hughes, secretary, Board of Education.
 Architect — Chas. F. Dean, 1406 California State Life Bldg., Sacramento.
 Contractor — W. L. Chatterton, 1032 42nd St., Sacramento.

Contract Awarded.
SCHOOL Cost, \$20,000
YOUNTVILLE, Napa Co., Cal.
 One-story three-classroom hollow tile Spanish type school.
 Owner — Yountville School District.
 Architect — Coffman, Sahlberg & Stafford (W. E. Coffman, architect), Forum Bldg., Sacramento and 3529 Emerson St., Oakland.
 Contractor — Gaubert Bros., 4735 Brookdale Ave., Oakland.

Contracts Awarded.
SCHOOL Cost, \$160,000
SANTA CRUZ, Santa Cruz Co., Cal.
 Two-story reinforced concrete Mission type high school.
 Owner — Santa Cruz School District.
 Architect — J. J. Donovan, 1916 Broadway, Oakland.
General Work
 Wilson & McGranahan, Santa Cruz, \$91,894.

Heating
 O'Mara & Stewart, 218 Clara Street, San Francisco, \$15,874.

Electric Work
 I. M. Smith, Santa Cruz, \$5,197.

Plumbing
 Byrne Bros., Santa Cruz, \$11,998.

Roofing
 W. J. Porter, San Jose, \$4,575.

Painting
 J. F. Ecker, 915 E Lindsay Street, Stockton, \$4,900.

Glass and Glazing
 Santa Cruz Glass Co., Santa Cruz, \$1,130.

Architectural Metal
 Pacific Iron Works, 1155 57th Street, Oakland, \$2,945.

Sheet Metal
 Superior Metal Products Co., 4400 Market St., Oakland, \$3,556.

Tile
 Art Tile & Mantel Co., 221 Oak St., San Francisco, \$4,255.

Contract for lathing, plastering and hardware are held under advisement for a few days.

Plans Being Completed.
BUILDINGS Cost, \$685,000
BERKELEY, Alameda Co., Cal. University of California Campus.
 Group of Class B buildings (College of Engineering).
 Owner — University of California.
 Architect — George W. Kelham, 315 Montgomery St., San Francisco.
 Engineer — H. J. Brunnier, Sharon Bldg., San Francisco.
 Group consists of 4-story Class B main building (40,000 sq. ft.), 2-story Hesse Hall (8000 sq. ft.) and 1, 2 and 3-story laboratory (30,000 sq. ft.).
 Bids will be advertised August 15.

Bids Opened.
SERVICES FOR COLLEGE Cost, \$—
SAN DIEGO, San Diego Co., Cal.
 State Teachers' College.
 Services for State Teachers' College.
 Owner — State of California.
 Architect — George B. McDougall, State Architect, Public Works Bldg., Sacramento.
 W. H. Peterson, San Diego.....\$17,407
 W. H. Robinson, San Diego.....25,676
 Thos. Haverly Co., L. A.32,940
 Fred A. Heilbron, San Diego.....35,579

Bids Opened.
ADDITIONS Cost, \$100,000
BERKELEY, Alameda Co., Cal.
 Classroom addition to Longfellow School (class C construction, brick wood and steel joists in auditorium).
 Owner — Berkeley School District.

Architect — James V. Plachek, Mercantile Bank Bldg., Berkeley.

Following is a complete list of bids with alternates.

(1) deduct for omitting four classrooms in East wing.

(2) add if floors are changed from maple to pine.

(3) add for using slate blackboards in place of composition.

(4) deduct for using plaster back of blackboards.

(5) deduct for omitting portions of heating.

Chas. D. Vezey & Son, 3220 Sacramento St., Oakland, \$123,385; (1) \$20,300; (2) \$1800; (3) \$1100; (4) \$300; (5) \$318.

David Nordstrom, Oakland, \$124,980; (1) \$20,000; (2) \$1300; (3) \$403; (4); (5) \$300.

F. J. Westlund, Oakland, \$127,429; (1) \$21,500; (2) \$200; (3) \$647; (4) \$300; (5) \$500.

Walter Sorensen, Oakland, \$128,495; (1) \$21,230; (2) \$2245; (3) \$772; (4) \$70; (5) \$500.

N. H. Sjoberg, San Francisco, \$129,129; (1) \$21,274; (2) \$1420; (3) \$550; (4) \$17; (5) \$415.

George Swanstrom, Oakland, \$131,471; (1) \$23,117; (2) \$3000; (3) \$950; (4) \$200; (5) \$450.

E. T. Lesure, Berkeley, \$131,560; (1) \$25,768; (2) \$2790; (3) \$960; (4) \$219; (5) \$490.

Connor & Connor, Oakland, \$131,693; (1) \$22,444; (2) \$1200; (3) \$817; (4) \$70; (5) \$510.

Monson Bros., San Francisco, \$134,480; (1) \$22,500; (2) \$1050; (3) \$535; (4) \$175; (5) \$450.

Vogt & Davidson, San Francisco, \$142,332; (1) \$25,163; (2) \$2000; (3) \$450 (4) \$250; (5) \$450.

E. T. Leiter & Son, Oakland, \$142,800; (1) \$21,500; (2) \$3000; (3) \$1700; (4) \$200; (5) \$490.

Sub-Contracts Awarded.
GYMNASIUM, ETC. Cost, \$61,234
SAN LUIS OBISPO, San Luis Obispo Co., Cal.

Gymnasium and assembly room and shop additions and alterations to Junior High School.

Owner — San Luis Obispo Junior High School District, C. L. Smith, City superintendent of schools.

Architect — L. N. Crawford, Gibson-Drexler Bldg., Santa Maria.

Contractor — Theo. Maino, San Luis Obispo.

Lumber — Pacific Coast Coal & Southern Pacific Milling Co., San Luis Obispo.

Millwork — San Luis Mill, San Luis Obispo.

Structural Steel, Brick Work and Tile — San Luis Brick Co., San Luis Obispo.

Plastering — N. O'Leary, San Luis Obispo.

Electrical — Clines Electrical Co., San Luis Obispo.

Plumbing and Sheet Metal — E. M. Payne, San Luis Obispo.

Roofing — County Roof Service, San Luis Obispo.

Reinforcing Steel and Cement — Central Supply Co., San Luis Obispo.

Painting — R. A. Walton, San Luis Obispo.

Steel Sash — Soule Steel Co., Rialto Bldg., San Francisco.

Blackboards — F. E. Turner, Stockton.

OROVILLE, Butte Co., Cal. — Until August 14, P. M., bids will be received by Oroville Grammar School District, to construct new roof and

for other repairs at Bird Street School. Certified check 10% payable to district required with bid. Specifications obtainable from Harry S. Hills, president of the Board of Trustees of District, 1 Jones Bldg., Oroville.

Sub-Contracts Awarded.
ADDITION Cost, \$—
PACIFIC GROVE, Monterey Co., Cal. Seven-classroom and auditorium brick addition to high school.
Owner—Pacific Grove High School District.

Architect—W. H. Weeks, Hunter-Dunham Bldg., San Francisco; 1736 Franklin St., Oakland, and Bank of Italy Bldg., San Jose

Contractor—J. J. Gredem & Co., 1028 San Antonio Ave., Alameda, on proposition (b) general contract \$50,000; (d) special fixtures, \$5000 and (e) hardwood flooring, \$500.

Excavating—S. Ruthwin, Pacific Grove.

Reinforcing Steel—Concrete Engineering Co., 1250 Indiana St., San Francisco.

As previously reported, electrical work awarded to Chas. A. Langlais, 472 Tehama St., S. F.

Sub-Contracts Awarded.
ANNEX Cost, \$45,700
BERKELEY, Alameda Co., Cal. California School for Blind.
Two-story reinforced concrete annex to school; tile partitions, wood and tile roof (cover area of 10,000 sq. ft.) and annex to residence.

Owner—State of California.
Architect—George B. McDougall, State Architect, Public Works Building, Sacramento.

Contractor—Sorensen and Haggmark, 2652 Harrison St., San Francisco.
Excavation—Ariss-Knapp Co., Oakland.

Reinforcing Steel—Concrete Engineering Co., 1250 Indiana St., S. F.

Cast Stone and Travertine—Wm. Berwick & Co., 1419 Egbert St., San Francisco.

Iron—Polson St. Iron Works, 17th and Missouri Sts., San Francisco.

Lumber—Sunset Lumber Co., 400 High St., Oakland.

Mill Work—Tilden Lumber Co., foot of University Ave., Berkeley.

Glass—W. P. Fuller Co., 301 Mission St., San Francisco.

Roofing—R. P. Eckhart, 1371 34th St., Oakland.

Steel Sash—Michel and Pfeffer Iron Works, Harrison and 10th Streets, San Francisco.

Plans Being Completed.
ADDITION Cost, \$—
MONTEREY, Monterey Co., Cal.

Shop addition, tennis courts, grading girls' playground at high school. Owner—Monterey High School Dist. **Architect**—Swartz & Ryland, Spazier Bldg., Monterey, 373 Main St., Salinas, and Brix Bldg., Fresno.

Plans are to be approved August 9, and bids will be opened Sept. 6. This work will comprise the first unit of improvements to be undertaken under the recently authorized bond issue.

Seating Contract Awarded.
FURNISHINGS Cost, \$—
SAN RAFAEL, Marin Co., Cal.
Furnish and install asbestos curtain for stage for high school auditorium; furnish and install auditorium seats; drapery for stage and auditorium.

Owner—San Rafael High School District (Oliver R. Hartzell, secretary Board of Education).

Architect—N. W. Sexton, deYoung Bldg., San Francisco.

Auditorium Chairs—Fred Turner Co., P. O. Box No. 501, Stockton.
Bids for asbestos curtain and drapery are held under advisement for one week.

Contract Awarded.
DORMITORY Cost, \$—
BELMONT, San Mateo Co., Cal.
Two-story reinforced concrete dormitory and classroom addition.
Owner—College of Notre Dame, Belmont.

Architect—John J. Donovan, Tapscott Bldg., Oakland.
Contractor—H. H. MacDonald, 1020 Rosewood, Belmont.

Following is a complete list of bids:
H. H. MacDonald, Belmont.....\$37,600
Barrett & Hilt, San Francisco.. 38,985
J. L. McLaughlin Co., S. F..... 39,500
Dyer Const. Co., Oakland..... 45,500
Schuler & McDonald, Oakland..... 47,000

Preparing Working Drawings.
MEMORIAL BLDG. Cost, \$250,000
BERKELEY, Alameda Co., Cal. Campus of the University of California.
Two-story class A concrete Eshleman Memorial Bldg. (student publishing building).

Owner—Regents of the University of California.

Architect—G. W. Kelham, 315 Montgomery St., San Francisco.
Bids will be called for about Oct. 1.

BANKS, STORES & OFFICES

Additional Sub-Contracts Awarded.
BALLROOM Cost, \$100,000
OAKLAND, Alameda Co., Cal. Grand Ave. and Webster St.
Four-story steel frame and concrete ballroom.

Owner—George Ebe, 3919 Angelo St., Oakland.

Architect—Ray F. Keefer, 1723 Webster St., Oakland.

Lessee—Sweet's Ballroom.
Contractor—Jacobs and Pattiani, 337 17th St., Oakland.

Sheet Metal—Sheet Metal Service Corporation, 2254 E 14th St., Oakland.

Painting—A. A. Zelinsky, 4420 California St., San Francisco. 16

Construction To Start Immediately.
MARKET Cost, \$6000
SAN FRANCISCO, SW McAllister and Webster Sts.

One-story reinforced concrete market.

Owner—Samuel Rhine and Irwin Stoff, 150 Post St., San Francisco.

Plans by Peter Fisher, 5% Owner.

Work will be done by day's work by owner.

As previously reported wrecking awarded to Banks Wrecking Co., 1230 Howard St., San Francisco.

Contract Awarded.
ALTERATIONS Cost, \$10,000
SAN FRANCISCO, 55 Ellis St.

Alterations for cigar store.

Owner—Sommer & Kaufmann, Inc., 938 Market St.

Architect—A. F. Roller, Crocker First National Bank Bldg.

Contractor—P. J. Walker Co., 607 Sharon Bldg.

Plans To Be Prepared.
ALTERATIONS Cost, \$100,000
FRESNO, Fresno Co., Cal. Fulton St.

near Mariposa.

Extension alterations to present store.

Owner—Clark's Dollar Store, 422 South Broadway, Los Angeles.

Architect—Marshall R. Lawson, 614 S Pacific Ave., San Pedro.

Work involves removal of a wall and widening building, changing partitions and installing new store fronts and equipment.

Low Bidders.
OFFICES Cost, \$—
LOS ANGELES, Cal. Civic Center Property bounded by First, Spring, Broadway and Court Streets.
Twelve-story and basement class A State office building.
Owner—State of California.
Architect—John C. Austin (of the firm of John C. Austin and Frederick M. Ashley) Chamber of Commerce Bldg., Los Angeles.
Following are low bidders.

General Work
Weymouth Crowell Co., Los Angeles.....\$639,000

Granite
McGivray-Raymond Co., Los Angeles.....\$199,385

Structural Steel
Consolidated Steel Corp., Los Angeles.....\$128,775

Electrical Work
H. H. Walker Electric Co., Los Angeles.....\$48,834

Elevators
Consolidated Steel Corp., Los Angeles.....\$47,900

Plumbing
Pacific Pipe & Supply Co., Los Angeles.....\$47,673

Heating
Lohman Bros., Los Angeles.....\$33,383

Ventilating
J. Herman Co., Los Angeles.....\$16,850

Complete list of bids will be published.

Plans Being Prepared.
ALTERATIONS Cost, \$100,000
SAN FRANCISCO, St. Francis Hotel (Powell, Geary and Post Sts.)

Alter mural room for restaurant and sweet shop.

Owner—St. Francis Hotel.

Architect—W. B. Faville, Crocker 1st National Bank Bldg.

Lessee—Pign' Whistle Corp.

Contract Awarded.
ADDITION Cost, \$10,000
MARTINEZ, Contra Costa Co., Calif. Alhambra Avenue.
One-story addition to store (50x50-ft.)

Owner—Ralph Norton, Fort Costa.

Architect—Eng. Dept. of Lessee.

Lessee—J. C. Penny Company.

Contractor—Wallace Shelgrove, Martinez.

Plans Being Prepared.
STORE Cost, \$20,000
BERKELEY, Alameda Co., Cal. Shattuck Avenue.

Owner—Name Withheld.

Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.

Contracts Awarded.
STORE Cost, \$25,000
GREENVILLE, Plumas Co., Cal.

Two-story reinforced concrete store and rooming house.

Owner—M. B. Ayoub.

Architect—Chester Cole, Chico, Calif.

Contractor—Herman Horn, Red Bluff.

Plumbing and Heating—A. B. Ratto, Plumas.

Preparing Plans.
STORE & OFFICES Cost, \$150,000
LOS ANGELES, Cal. Wilshire Blvd. and San Vicente Blvd.

Two-story Class A concrete and steel store and offices with eight-story tower.

Owner—Withheld.

Architect—S. Charles Lee, Petroleum

Contract Awarded.
NEWSPAPER BLDG. Cost, \$60,000
NEWMAN, Stanislaus Co., Cal.

One-story Class C newspaper building (30x40 ft.)

Owner—A. A. Ficharty

Architect—Hardman & Russ, Berkeley

Bank Bldg., Berkeley.

Contractor—Selected (Name Withheld)

Contracts Awarded.

ALTERATIONS Cost, \$—
SANTA ROSA, Sonoma Co., Cal.
Alterations to present one-story brick store.

Owner—National Dollar Store, San Francisco.

Architect—Bernard Joseph, 74 New Montgomery St., San Francisco.
Mill Work—Electric Planing Mill, Santa Rosa.

Plumbing and Heating—Kretser & Wilson, Santa Rosa.

Electrical Work—Drake Electrical Shop, Santa Rosa.

Glass—W. P. Fuller & Co., 301 Mission St., San Francisco.

Marble—Ray Cook Marble Works, Foot of Powell St., Oakland.

Sub-Bids Wanted. Cost, \$150,000
LOS ANGELES, Cal. Wilshire Blvd. and Kingsley Drive.

Two-story reinforced concrete stores and lofts (80x135-ft.)

Owner—M. Malsman, Jewelers' Exchange Bldg., Los Angeles.

Architect—Charles Lee, Petroleum Securities Bldg., Los Angeles.

Contractor—A. V. Perkinson Co., Inc., 3977 S. Vermont Ave., Los Angeles.

THEATRES

Completing Plans. Cost, \$—
LAS VEGAS, Nevada.

Two-story concrete and brick theatre (60x130-ft.)

Owner—Cragin & Pike, Las Vegas.

Architect—R. D. King, Van Nuys Bldg., Los Angeles.

Plans Being Completed.
THEATRE Cost approx., \$1,000,000
OAKLAND, Alameda Co., Cal. Broadway near Haight St.

Class A theatre building (to seat 3500)

Owner—Publix Theatres, Inc.

Architect—Miller & Pfleger, 580 Market St., San Francisco.

Plans will be ready for bids between Sept. 1 and 15.

Plans To Be Prepared.
THEATRE Cost, \$—
STOCKTON, San Joaquin Co., Cal.

Modern theatre (height and type of structure not determined).

Owner—National Theatre Syndicate, (E. V. Clover, manager), 136 N. Sutter St., Stockton.

Architect—Not Selected.

Proposed project is in a very preliminary stage.

WHARVES AND DOCKS

REDONDO BEACH, Los Angeles Co., Cal.—The \$30,000 bond issue for constructing an addition to the municipal pier was defeated at the election July 29.

Plans Being Figure—Bids Close Sept. 3, 11 A. M.

PIER EXTENSION Cost, \$—
SAN DIEGO, Calif. Naval Operating Base (Air Station).

Reinforced concrete pier extension.

Owner—U. S. Government (Specification No. 6239).

Engineer—Bureau of Yards & Docks, Navy Dept., Washington, D. C.

Plans obtainable from the Bureau of Yards and Docks on deposit of \$10, returnable.

SANTA MONICA, Cal.—Merritt-Chapman & Scott Corp., 720 Wilmington St., San Pedro, awarded contract by Jesse L. Lasky, at about \$40,000 for the construction of a 706-ft. pier extending into the ocean in front of his home at Palisades Beach Rd. It will be 12 feet wide with a platform 40x40 feet at the end, with sun room.

The pier will be of wood and concrete construction.

MISCELLANEOUS CONSTRUCTION

PITTSBURG, Contra Costa Co., Cal.—Until August 11, 8 P. M., bids will be received by J. E. McElheney, city clerk, to erect protection fence around Antioch Municipal Reservoir, 8736 ft. in length. Certified check 10% payable to City Council required with bid. Specifications obtainable from E. L. O'Hara, city engineer.

SACRAMENTO, Cal.—City Manager Jas. S. Dean has recommended to city council that \$2000 be included in the 1931 budget to finance the purchase of equipment for spraying trees and \$1000 for the purchase of spraying materials.

Plans Prepared.
LABORATORY, ETC. Cost, \$750,000
UNIVERSAL CITY, Los Angeles Co.

Two-story and basement reinforced concrete laboratory and sound stage.

Owner—Universal Pictures Corp., Universal City.

Architect—H. H. Walker, % Owner.

Plans have also been prepared for two new concrete sound stages to cost \$200,000 (150x150 feet).

Plans Being Prepared.
SERVICE BLDG. Cost, \$107,000
LOS ANGELES, Cal. Juvenile Hall Grounds.

Class A reinforced concrete Class A service building.

Owner—County of Los Angeles.

Architect—Karl Muck Co., Los Angeles.

STOCKTON, San Joaquin Co., Cal.—College of the Pacific has bids under advisement and will shortly awarded a contract for installation of lighting equipment at the college stadium. The cost is estimated at \$10,000 and will involve the installation of six masts of 10,000-c. p. lamps with reflectors and lens.

SAN FRANCISCO—Until September 8, 3 P. M., under Proposal No. 619, bid will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish and deliver crockery for the Laguna Honda Home, San Francisco Hospital, City Prison and other municipal departments Lists Lawn Sprinkler System Contract Awarded.

GRANDSTAND, ETC. Cost, \$1,250,000
SAN FRANCISCO. Fifteenth St. and Potrero Avenue.

Baseball Park, class A steel and concrete grandstand, 1000 ft. long.

Owner—San Francisco Baseball Club, 15th and Valencia Sts.

Engineer H. J. Brunner, Sharon Bldg.

Contractor—Lindgren-Swinerton, Inc., 225 Bush St.

Law Sprinkler System—The Turner Co., 329 Tehama St.

SAN JOSE, Santa Clara Co., Cal.—A. G. Ralsch, 46 Kearny Street, San Francisco, at \$4.10 per ton awarded contract by city manager to construct asphalt concrete tennis courts in south side of Home Street between Delmas and Willis Aves. Approximately 396 tons are involved.

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Engineering News Section

BRIDGES

ALAMEDA-SAN MATEO COUNTIES, Cal.—Interstate Commerce Commission Examiners have recommended that the Western Pacific R. R., Mills Bldg., San Francisco, be authorized to construct railroad line from San Francisco to Niles, with a bridge across San Francisco Bay. The proposed line would cost \$8,000,000. The bridge, according to recommendations, would be built only in the event that the Western Pacific was unable to secure operating rights over the Southern Pacific's Dumbarton bridge and adjacent trackage on reasonable terms subject to the commission's approval.

It was further stipulated that no portion of the line between San Francisco and Redwood City shall be operated until either the portion between Redwood City and Niles, including the bridge over the bay, is built, or trackage rights have been obtained over such portion of the Southern Pacific between Redwood City and Niles, including Dumbarton bridge, as will give the road a continuous line from San Francisco to Niles.

A further recommendation was that trackage rights over the proposed new road on reasonable terms be granted to any other railroad operating 250 miles or more of railroad desiring to thus obtain an all-rail entrance into San Francisco for the purpose of gaining access to its own or other terminals in that city.

SAN JOSE, Santa Clara Co., Calif.—John Williams, San Jose, at \$3,000 awarded contract by county supervisors to construct reinforced concrete culvert on Blossom road at Clikker's place and for two corrugated iron culverts on Short road in Supervisor District No. 5. Other bids: Collins & Martin, San Jose, \$3100; Thermotite Const. Co., San Jose, \$3198; Walter Todd, \$3256. Surveyor's estimate \$3,000.

SAN JOSE, Santa Clara Co., Calif.—Collins and Martin, San Jose, at \$1725 awarded contract by county supervisors to construct reinforced concrete culvert on McAbee rd. near McAbee's Place in Supervisor District No. 4. Other bids: Thermotite Const. Co., San Jose, \$1860; Walter Todd, San Jose, \$2076; surveyor's estimate \$1700.

SACRAMENTO, Calif.—City Engineering Dept. is completing plans for proposed H Street subway; estimated cost \$98,000.

SAN JOSE, Santa Clara Co., Calif.—Wm. Radtke, Gilroy, at \$1900 awarded contract by county supervisors to construct reinforced concrete culvert on Canada road at Dexter's Place in Supervisor District No. 1. Other bidders were: Walter Todd, \$1950; Geo. G. Wood, \$2856; surveyor's estimate, \$1800.

SAN JOSE, Santa Clara Co., Calif.—Until September 2, 11 A. M., bids will be received by Henry A. Pfister, county clerk, to widen concrete bridge on Quilto road at Austin corner and on Fruitvale Ave. over Wildcat Creek,

and a reinforced concrete bridge at Ralsch's place on the Quilto road. Plans obtainable from County Surveyor or Robert Chandler.

SAN BERNARDINO COUNTY, Cal.—Following bids received Aug. 6 by State Highway Commission to construct three concrete bridges east of Ontario, one consisting of three 8-ft. 6-inch slab spans; another consisting of two 14-ft. 3-inch slab spans and a third consisting of one 15-ft. 6-inch slab span to be partially reconstructed and widened and the approaches to be widened and paved with asphalt concrete:
Oberg Bros., Los Angeles.....\$17,596
R. H. Travers, Los Angeles.....20,445

DREDGING, HARBOR WORKS & EXCAVATIONS

SANTA BARBARA, Cal.—County supervisors authorize appropriation of \$74,000 for the construction of a seawall along Cabrillo Blvd., from Milpas St. west to Santa Barbara St.

PITTSBURG, Contra Costa Co., Cal.—American Dredging Co., 255 California St., San Francisco, at \$3539 awarded contract by A. F. Bellomo for dredging in connection with Bay Point Yacht Harbor. Channel is to be dredged to a depth of 7 feet, 1,650 feet in length and widen from present width of 40-ft. to 100-ft. with turning basin to accommodate 100 boats.

OAKLAND, Alameda Co., Cal.—Following bids received by City Port Commission for levees for hydraulic fill, located at the west end of 14th St., involving: 7000 lin. ft. earthen dykes, in outer harbor area, approx. 5 ft. in height with a 3-ft. beam on natural slope:
Paris Bros\$1722
Lee J. Immel, Berkeley.....1969
Western Crane Co. Oakland.....2025
E. T. Fisher, Oakland.....2700
Delta Dredging Co., Oakland.....2775

IRRIGATION PROJECTS

CALIFORNIA.—Following permits were granted by the State Department of Public Works, Division of Water Resources, Sacramento, during the month of July, to appropriate water:

Permit 3510, Application 6489 (Sutter County) issued to M. J. and H. E. Newkom, Yuba City, for 3 cu. ft. per sec. from Feather River, for irrigation of 242.9 acres. Est. cost \$13,570.

Per. 3511, App. 6577 (Sutter Co.) M. J. and H. E. Newkom, for 3 cu. ft. per sec. from Feather River, for irrigation of 242.9 acres.

Per. 3512, App. 6490 (Sutter Co.) Estate of California E. Hale, Marysville, for 1.75 cu. ft. per sec. from Feather River, for irrigation of 140 acres. Est. cost \$4200.

Per. 3513, App. 6593 (Sutter Co.) Estate of California E. Hale, Marysville, for 1.75 cu. ft. per sec. from Feather River, for irrigation of 140 acres.

Per. 3514, App. 3846 (San Diego Co.) Fallbrook Irrigation Dist., Fallbrook, for 25,000 ac. ft. per annum from Santa Margarita River, for irrigation and domestic purposes on 10,000 acres. Est. cost \$1,400,000.

Per. 3515, App. 6620 (Yuba Co.) D.

N. Jones, Wheatland, for 0.5 cu. ft. per sec. from Dry Creek for irrigation on 50 acres. Est. cost \$1,000.

Per. 3516, App. 6394 (Lassen Co.) Richard Talbot, Portland, Ore., for 20,000 ac. ft. per annum from Deep Cut Creek for irrigation on 3890 acres. Est. cost \$45,000.

Per. 3517, App. 6572 (San Bernardino Co.) H. O. and F. G. Webber and Helen S. Webber, Highgrove, for 0.35 cu. ft. per second from waste and seepage water for irrigation on 27.84 acres.

Per. 3518, App. 6573 (San Bernardino Co.) Mayville Ranch, Highgrove, for 0.37 cu. ft. per sec. from waste and seepage water for irrigation on thirty acres. Est. cost \$500.

Per. 3519, App. 6613 (El Dorado Co.) L. F. Trumbull, San Francisco, for 0.01 cu. ft. per sec. from unnamed spring for domestic purposes.

Per. 3520, App. 6580 (Trinity Co.) R. E. Roberts, Burnt Ranch, for 2 cu. ft. per sec. from (1) West Fork Tule Creek and (2) Dixie Creek, for mining and domestic purposes.

Per. 3521, App. 6388 (El Dorado Co.) James M. Hill, Berkeley, for 0.01 cu. ft. per sec. from unnamed brook, for domestic purposes. Est. cost \$50.

Per. 3522, App. 6559 (Nevada Co.) F. C. Foote, Grass Valley, for 3 cu. ft. per sec. from China Flat Ravine, for mining purposes. Est. cost \$1850.

Per. 3523, App. 6632 (Tulare Co.) C. W. Gray, et al., North Hollywood, for 0.01 cu. ft. per sec. from Mosquito Creek, for domestic purposes. Est. cost \$350.

Per. 3524, App. 6615 (Mendocino Co.) Hooper Bros., Ukiah, for 1.5 cu. ft. per sec. and 10 ac. ft. per annum from Drainage Creek, for irrigation purposes on 120 acres. Est. cost \$1000.

Per. 3525, App. 6642 (Mendocino Co.) Murphey and Yarbrough, Redwood Valley, for 1 cu. ft. per sec. from Forsythe Creek, for irrigation purposes or 121.2 acres. Est. cost \$500.

Per. 3526, App. 6416 (Siskiyou Co.) Paul Harris, Walker, for 0.5 cu. ft. per sec. from Salt Creek, for irrigation on 30 acres. Est. cost \$300.

Per. 3527, App. 6598 (Trinity Co.) Anton Weber, Trinity Alps, for 0.75 cu. ft. per sec. from Elk Gulch, for irrigation on 60 acres. Est. cost \$120.

Per. 3528, App. 6678 (Sacramento Co.) G. H. Moreland, Sacramento, for 0.3 cu. ft. per sec. from Dry Creek for irrigation on 24.4 acres. Est. cost \$500.

Per. 3529, App. 6591 (Mendocino Co.) Hale Burnett, Yorkville, for 0.12 cu. ft. per sec. from Rancheria Creek, for irrigation on 10 acres. Est. cost \$1,000.

Per. 3530, App. 6550 (Plumas Co.) Quincy Lumber Co., Inc., Quincy, for 0.017 cu. ft. per sec. from Black Hawk Creek, for industrial purposes. Est. cost \$300.

Per. 3531, App. 6551 (Plumas Co.) Quincy Lumber Co., Inc., for 1.56 cu. ft. per sec. from Middle Fork Feather River, for industrial purposes. Est. cost \$1500.

Per. 3532, App. 6532 (Plumas Co.) Quincy Lumber Co., Inc., for 0.075 cu. ft. per sec. from West Branch Peoria Creek, for industrial purposes. Est. cost \$250.

Per. 3533, App. 6533 (Plumas Co.) Quincy Lumber Co., Inc., for 0.075 cu. ft. per sec. from East Branch Peoria Creek, for industrial purposes. Est. cost \$200.

Per. 3534, App. 6554 (Plumas Co.) Quincy Lumber Co., Inc., for 0.075 cu. ft. per sec. from unnamed spring, for

industrial purposes. Est. cost, \$250.

Per. 3535, App. 6559 (El Dorado Co.) U. S. El Dorado National Forest, Placerville, for 0.01 cu. ft. per sec. from unnamed spring for domestic purposes. Est. cost \$150.

Per. 3536, App. 6502 (Madera Co.) F. P. Burris, Fresno, for 3 cu. ft. per sec. from North Fork San Joaquin River, for power purposes. Est. cost \$750.

tions were filed with the State Department of Public Works, Division of Water Resources, Sacramento, during the month of July, for permits to appropriate water:

App. 6717 (San Bernardino Co.) Geneva Catherine Baxter, % Lucerne Valley Supply Company, Victorville, 0.50 cu. ft. per sec. from Silver Creek Canyon and Lone Pine Springs tributary to Mojave Desert for irrigation purposes. Est. cost, \$100.

App. 6718 (Monterey Co.) El Sur Land & Cattle Company, % Cozzens & Davies, Salinas, 12 cu. ft. per sec. from Big Sur River tributary to Pacific Ocean, for irrigation purposes. Est. cost, \$56,030.

App. 6719 (Mono Co.) Earl C. Dart, % Fred R. Smith, Bishop, 1 cu. ft. per sec. and 100 ac. ft. per annum from Heart Lake tributary to Owens River for mining and milling purposes. Est. cost, \$2000.

App. 6720 (Orange Co.) Louis Robinson, El Toro, 1.5 cu. ft. per sec. and 80 ac. ft. per annum from Trabucco Creek tributary to San Juan Creek for irrigation and domestic purposes. Est. cost \$24,750.

App. 6721 (Los Angeles Co.) Little-rock Creek Irrigation District, % W. C. Petcher, 731 Forum Bldg., Los Angeles, 3000 ac. ft. per annum from Little-rock Creek tributary to Antelope Valley for irrigation and domestic purposes. Est. cost \$65,000.

App. 6722 (Butte Co.) Herbert W. Barmann, Box 85, Chico, 10 cu. ft. per sec. from Main Drain of Drainage District #100, tributary to Butte Creek for irrigation purposes.

App. 6723 (Butte Co.) F. O. Cullen, Magalia, 3 cu. ft. per sec. and 9 ac. ft. per annum from Empire Creek tributary to West Branch Feather River for mining purposes. Est. cost, \$200.

App. 6724 (San Bernardino Co.) Burnham Chemical Company, % B. G. Burnham, President, 438 California St., San Francisco, 0.007 cu. ft. per sec. from 3 sources from Parsons and Barnett Canyon tributary to Seales Lake Watershed for industrial and domestic purposes. Est. cost, \$10,000.

App. 6725 (Monterey Co.) Samuel R. and C. C. Avila, King City, 23.37 ac. ft. per annum from Carlazo Spring tributary to Salispuedes Creek for irrigation and domestic purposes. Est. cost, \$2500.

App. 6726 (Sutter Co.) B. P. Lilienthal, Trustee, Alameda Sugar Company, % G. E. Springer, Secretary, 351 California St., San Francisco, 5 cu. ft. per sec. from Sacramento River tributary to Suisun Bay for irrigation purposes. Est. cost \$5000.

App. 6727 (El Dorado Co.) Ira W. Kibby, 3421 Curtis Park Drive, Sacramento, 200 gal. per day from Unnamed Spring, tributary to Bryant Creek for domestic purposes.

App. 6728 (Plumas Co.) W. H. Morrison, Indian Falls Lodge, 1.25 cu. ft. per sec. from two unnamed springs tributary to Indian Creek and Feather River for domestic purposes. Est. cost, \$3000.

App. 6729 (Mariposa Co.) Yosemite National Park, 2 cu. ft. per sec. from Raynor Creek tributary to Merced

liver for recreational and domestic purposes. Est. cost, \$30,190.

App. 6730 (El Dorado Co.) Mrs. Ida M. Raught, et al, % Mrs. Ida M. Raught, 2816 F St., Sacramento, 0.002 cu. ft. per sec. from unnamed spring tributary to South Fork of American River for domestic purposes. Est. cost, \$100.

App. 6731 (Yuba Co.) W. C. and A. Cunningham, % W. E. Wright, Nevada City, Calif., 0.62 cu. ft. per sec. from Mosquito Creek tributary to Oregon Creek for irrigation and domestic purposes. Est. cost, \$1000.

App. 6732 (Madera and Fresno Counties) George A. Haines, Hollywood, 3 cu. ft. per sec. from San Joaquin River, tributary to Suisun Bay for mining purposes.

App. 6733 (Fresno and Madera Counties) Fresno Irrigation District, 1901, Griffith McKenzie Bldg., Fresno, 750 cu. ft. per sec. and 200,000 ac. ft. per annum from San Joaquin River tributary to Suisun Bay for irrigation and domestic purposes.

App. 6734 (Los Angeles Co.) Southern Counties Land Company, % A. L. Sonderegger, 925 Central Bldg., Los Angeles, 800 ac. ft. per annum from Triunfo Creek tributary to Malibu Creek for irrigation and domestic purposes.

App. 6735 (Lake Co.) Arcile A. Price, Middletown, Lake Co., 0.17 cu. ft. per sec. from Lampley Creek Tributary to Putah Creek for power and domestic purposes. 1.5 T. H. P. to be developed. Est. cost \$500.

App. 6736 (San Bernardino Co.) Raymond M. Hart, Pine Knot, 0.025 cu. ft. per sec. from unnamed spring tributary to Big Bear Lake, for irrigation and domestic purposes on ¼ acre. Est. cost \$500.

App. 6737 (Amador Co.) Pacific Gas & Electric Company, 245 Market St., San Francisco, 75 cu. ft. per sec. from Tiger Creek, tributary to North Fork of Mokelumne River, for power purposes. (a) 60,000 K. V. A.; (b) 15,000 K. V. A.; (c) 60,000 K. V. A. Est. cost, \$40,000.00.

App. 6738 (Amador Co.) Pacific Gas & Electric Company, (a) 62.5 cu. ft. per sec., (b) 62.5 cu. ft. per sec. from (a) East Fork Panther Creek, (b) West Fork Panther Creek, tributary to North Fork of Mokelumne River for power purposes (60,000 K.V.A.) Est. cost, \$40,000.00.

App. 6739 (Fresno Co.) Fresno Irrigation District, % J. Allen Hall, Secretary, 1031 Griffith McKenzie Bldg., Fresno, 3600 cu. ft. per sec. from San Joaquin River tributary to San Francisco Bay for power purposes, 76,000 T.H.P. to be developed.

App. 6740 (Lake Co.) Martin Judge Jr. & Company, Crocker First Nat'l Bank Bldg., San Francisco, 175,000 ac. ft. per annum from North Fork of Cache Creek tributary to Cache Creek, for irrigation purposes on 50,000 acres. Est. cost \$1,000,000.

App. 6741 (Lake Co.) Martin Judge Jr. & Company, 250 cu. ft. per sec. and 175,000 ac. ft. per annum from North Fork Cache Creek tributary to Cache Creek for industrial and domestic purposes. Est. cost \$3,000,000.

App. 6742 (Mono Co.) Sarita Mining & Power Co., % Frank W. Stall, President, Bridgeport, 1 cu. ft. per sec. from Masonic Creek, tributary to East Walker River, for mining and domestic purposes. Est. cost \$750.

App. 6743 (Sutter Co.) McGrath Bros., et al, by D. C. Smith, E. I. McGrath and S. A. McKeehan, Agents, % S. A. McKeehan, Meridian, 131 cu. ft. per sec. from Butte Slough tribu-

tary to Sacramento River, for irrigation purposes on 5245 acres.

App. 6744 (Mono Co.) R. S. MacMillan, % Howard P. Hall, 510 W. 6th St., Los Angeles, 0.15 cu. ft. per sec. from unnamed spring for domestic purposes. Est. cost \$150.

App. 6745 (El Dorado Co.) Sacramento Municipal Utility District, Sacramento, 309 cu. ft. per sec. and 255,000 ac. ft. per annum from (a) South Fork of Silver Creek, (b) Silver Creek for municipal and domestic purposes. Est. cost \$26,500,000.

App. 6746 (El Dorado Co.) Sacramento Municipal Utility District, 350 cu. ft. per sec. and 240,000 ac. ft. per annum from (a) South Fork of Silver Creek and (b) Silver Creek, tributary to South Fork of American River for power purposes. 137,200 T.H.P. to be developed. Est. cost \$16,700,000.

App. 6747 (El Dorado Co.) Sacramento Municipal Utility District, 309 cu. ft. per sec. and 255,000 ac. ft. per annum from (a) South Fork of Silver Creek and (b) Silver Creek tributary to South Fork of American River for irrigation and domestic purposes. Est. cost \$26,500,000.

App. 6748 (San Joaquin Co.) Ralph and George Wesley Coffee, % T. P. Wittschen, 1406 Latham Square Bldg., Oakland, 10 cu. ft. per sec. from Lone Tree Creek tributary to French Camp Slough and San Joaquin River for irrigation purposes on 460 acres. Est. cost \$900.

App. 6749 (Lake Co.) Martin Judge Jr. & Company, Crocker First Nat'l Bank Bldg., San Francisco, 175,000 ac. ft. per annum from North Fork Cache Creek tributary to Cache Creek for industrial and domestic purposes. Est. cost \$3,000,000.

App. 6750 (Tulare Co.) George W. Dooley, 283 16th St., San Bernardino, 25 gals. per hour from unnamed spring tributary to White River for domestic purposes. Est. cost \$150.

App. 6751 (San Bernardino Co.) J. Richard Haas, 502 E. Maple St., Glendale, 200 gals. per day from unnamed spring tributary to Baldwin Lake watershed for domestic, stock and garden purposes. Est. cost \$50.

App. 6752 (Trinity Co.) Charles Roderic Delaney, Forest Glen, Trinity County, 2.5 cu. ft. per sec. from Little Rattlesnake Creek tributary to Rattlesnake Creek, thence South Fork Trinity River for mining and domestic purposes. Est. cost, \$100.

App. 6753 (San Mateo Co.) Bear Gulch Water Co., % Calkins Hagar, Hall & Linforth, Crocker Bldg., San Francisco, 25 cu. ft. per sec. and 1500 ac. ft. per annum from Bear Gulch Creek tributary to San Francisco Bay for municipal purposes. Est. cost \$325,000.

App. 6754 (Humboldt Co.) Mrs. Celia Norton, Star Route, Arcata, 0.1 cu. ft. per sec. from Underwood Creek tributary to Main Underwood Creek, thence Pacific Ocean for irrigation and domestic purposes on 8 acres. Est. cost \$250.

App. 6755 (Butte Co.) A. A. McCullen, % Sutter Independent Yuba City, 1.0 cu. ft. per sec. from Branch of Ram Creek tributary to Ram Creek, thence French Creek, thence North Fork of Feather River for irrigation and domestic purposes on 8 acres.

App. 6756 (El Dorado Co.) Mrs. Ida M. Scott, 1112 S. Alvarado St., Los Angeles, 0.005 cu. ft. per sec. from unnamed stream tributary to South Fork of American River for domestic purposes. Est. cost \$300.

STREET LIGHTING SYSTEMS

PAILO ALTO, Santa Clara Co., Cal.—Until August 28, 10 A. M., bids will be received by Supervising Superintendent of Construction, U. S. Veterans' Hospital, Palo Alto, for revisions and additions to the ground lighting system, involving cast iron lighting standards; lighting units for standards in place; installation of C. C., including control switch and step-down lighting transformers, parkway cable, including foundations, trenching, backfill, etc. Plans together with further information obtainable from Supervising Supt. of Veterans' Hospital, Palo Alto.

SOUTH SAN FRANCISCO, San Mateo Co., Cal.—City council plans installation of ornamental street lighting system in Grand Ave. Two types of standards are being considered, the concrete standards as manufactured by P. Grassi Company in San Francisco, and the cast iron type of manufacture by the Enterprise Foundry Company of South San Francisco.

RICHMOND, Contra Costa Co., Cal.—Due to protests, the city council has deferred action on installation of electric trolley system in Tenth St. bet. Ripley Ave. and Cutting Blvd.

SANTA BARBARA, Cal.—Until 1:30 P. M., August 14, new bids will be received by the city council to construct lighting system in West Cabrillo Blvd., bet. State St. and Castillo St., involving cast iron standards, with all appurtenances; 1911 Act. E. B. Brown, city engineer. S. B. Taggart, city clerk. Previous bids were rejected. Note: Date has been changed from Aug. 7 to Aug. 14.

REDWOOD CITY, San Mateo Co., Cal.—City council declares intention (M-13) to install ornamental lighting system in Main St., bet. Maple St. and El Camino Real, involving 4 single light standards and 41 2-light standards of Union Metal Mfg. Co., design No. 8092, together with underground system. 1911 Act. Bond Act 1915. Hearing August 18. E. E. Myers, city clerk. C. L. Dimmitt, city engineer.

MACHINERY AND EQUIPMENT

SACRAMENTO, Cal.—City Manager Jas. S. Dean has recommended to city council that \$2000 be included in the 1931 budget to finance the purchase of equipment for spraying trees and \$1000 for the purchase of spraying materials.

DENVER, Colo.—Until Aug. 14, bids will be received by the Bureau of Reclamation, Denver, for one 2-column motor operated hydraulic compressor machine of 2,000,000-lb. capacity.

PHOENIX, Ariz.—Until August 15, bids will be received by Superintendent, U. S. Indian School, Phoenix, to furnish and deliver one concrete mixer for use at the sanatorium. Specifications obtainable from above.

BERKELEY, Alameda Co., Cal.—City Engineer Harry L. Goodridge recommends to city council the purchase of a motor driven street sweeping machine.

OAKLAND, Alameda Co., Cal.—Following bids received by City Port Commission to furnish and deliver one new Industrial Type tractor:

J. I. Chase Co.	\$1390
Sherman Tractor Co.	1580
O. R. Peterson	1675
R. Baron Co.	1717

Bids held under advisement.

SACRAMENTO, Cal.—Until August 15, 3 P. M., under Order No. 2265-1657, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver Rio Vista, Solano County:

One pneumatic wood boring machine, reversible, for boring holes in wood up to 1" dia., average working speed 700 R. P. M., spade handle bit chuck with set screw and wrench for square shank drill hits, to be equipped with fitting with ribbed shank to enter 1/2" leader hose. It is desired to purchase the most efficient and durable machine and the machine with the fewest working parts. A type similar and equal to Ingersol Rand D. D. W. is desired.

One pneumatic chipping hammer, suitable for general chipping work; 3" piston stroke, closed handle, length overall 13", round nozzle, outside type throttle valve. It is desired to purchase the most efficient and durable machine and a machine with the fewest working parts. A type similar and equal to Ingersol Rand size "3 R" is desired.

Miscellaneous tools to work with chipping hammer.

Further information obtainable from above.

RAILROADS

ALAMEDA-SAN MATEO COUNTIES, Cal.—See "Bridges," this issue Niles-San Francisco extension of Western Pacific Railroad, as recommended by examiners of Interstate Commerce Commission.

LAS VEGAS, Nevada.—Acting Secretary Dixon of the Interior Department has signed a contract with the Los Angeles and Salt Lake Railroad for the construction of thirty mile of railroad from Las Vegas, Nev., to the site of Boulder Dam. (The Los Angeles and Salt Lake Railroad is a subsidiary of the Union Pacific Railroad). Under the terms of the contract the railroad will construct and operate 22.39 mile of railroad at its own expense to a point known as The Summit. The railroad will also build one-third of a mile of track for a delivery yard at The Summit, with the Government to pay one-half of the cost of the construction and renewal maintenance, repair and renewal costs plus 10 per cent of construction cost. The Government contracted with the railroad to build the remaining 7.13 miles to the dam site from The Summit at Government expense.

FIRE EQUIPMENT

WILLITS, Mendocino Co., Cal.—City trustees will purchase for \$4500 a used 750-gal. pump fire engine from American La France Company, paying one-third down and the balance over a 5-year period.

PIPE LINES, WELLS, ETC.

OAKLAND, Alameda Co., Cal.—Following bids received by City Port Commission to furnish pontoon pipe, delivered Oakland Harbor Terminal: 29 pieces 20-in., 40-ft long; 2 pieces 20-in., 48-ft. long:

Pacific Coast Eng. Co., Foot of 14th St., Oakland \$6700
Western Pipe Steel Co., S. F. 6865
Bids held under advisement

SEWERS AND SEWAGE DISPOSAL PLANTS

SAN MATEO, San Mateo Co., Cal.—Oakland Sewer Construction Co., Oakland, at \$2177.50 awarded contract by city council to construct sewer in Poplar Ave., bet. Delaware and Humboldt Sts. Complete list of bids follows:

Oakland Sewer Constr. Co.	\$2177
J. P. Lawler	2403
Oakland Constr. Co.	2561
C. B. Cowden	2714
P. & H. Constr. Co.	2895

SAN FRANCISCO.—E. J. Treacy, Call Bldg., at \$5,125 submitted low bid to Board of Public Works to improve Pennsylvania Ave. bet. 433 ft. north of 23rd St. and 36 ft. south from 25th St., etc., involving vit. clay pipe sewers with wye branches, side sewers, brick manholes. Complete list of bids follows:

E. J. Treacy	\$5,125
M. J. Lynch	5,316
C. B. Eaton	5,714
C. L. Harney	5,794
A. G. Halsdorf	5,912
Pay Imp. Co.	6,704

EL SINORE, Riverside Co., Cal.—The \$22,500 bond issue for extensions and additions to the existing sewer system carried at election July 29. Glenn Graham is the city engineer.

SAN BRUNO, San Mateo Co., Cal.—George A. Kneese, city engineer, Courthouse, Redwood City, is completing plans for proposed new Joint San Bruno-Lomita Park and South San Francisco outfall sewer, comprising the construction of two pumping plants and a central outfall sewer to the bay.

LOS ANGELES, Cal.—P. J. Akmadzich, 3025 Gilroy St., Los Angeles, at \$72,199 awarded contract by county supervisors to construct sanitary sewers in Blanchard St., Dwiggins Sts., etc., involving 8-inch vitrified pipe, portions of which to have concrete cradle.

WATER WORKS

SAN DIEGO, Cal.—Until 11 A. M., August 27, bids will be received by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., to furnish and install \$5,000-lb. steel tank and piping at the Naval Operating Base (Fuel Depot), San Diego. The work also involves earth and concrete work, steel and iron and electrical work. Spec. No. 6155. Bidding data obtainable from the Public Works Officer, Eleventh Naval District, San Diego, upon deposit of \$10.

BEVERLY HILLS, Los Angeles Co., Cal.—Until 8 P. M., August 26, bids will be received by the city council for constructing a conduit line with automatic magnetic starter, for raising the water from reservoir No 1 to No 3. B. J. Firminger, city clerk

LOS ANGELES, Calif.—Fairbanks, Morse & Co., 427 E Third St., submitted the low bid of \$16,765 on item A1 to the Los Angeles harbor department to furnish and install three 5,000 G. P. M. salt water pumps, one 250-gallon centrifugal pump, motors and incidental equipment.

LIVINGSTON, Merced Co., Calif.—Until August 11, 8 P. M., bids will be received by E. J. Hicks, city clerk, to remove 4-in. and install 6-in. cast iron water pipe with fittings, hydrants, etc. in connection with municipal water system extension to Livingston High School property. W. E. Bedesen, engineer, Shafter Bldg., Merced. Certified check 10% payable to city clerk required with bid. Specifications obtainable from engineer. **NOTE**—This work is exclusive of that for which bids are being received by the Merced Union High School District for similar work at the same school.

YAKIMA, Wash.—Until August 18, bids will be received by Superintendent, U. S. Indian Irrigation Service, Yakima, to furnish and install two motor driven pumping units for Satus Pumping Plant. Specifications obtainable from above.

SAN FRANCISCO—Until August 18, 3 P. M., under Proposal No. 618, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish and deliver cast iron pipe fittings as may be ordered by San Francisco Water Department during fiscal year 1930-31. Specifications obtainable from above.

SAN FRANCISCO—Until August 11, 12 noon, bids will be received by E. P. Lamb, Secretary, Park Commission, Park Lodge, Golden Gate Park, to furnish and install centrifugal pump and motor at Sharp Park, Salada Beach, San Mateo County. Certified check 10% payable to Board of Park Commissioners required with bid. Specifications obtainable from Secretary.

GLENDALE, Los Angeles Co., Cal.—Until 10 A. M., August 14, bids will be received by the city council for delivering f. o. b. Glendale's private spur tracks between West Glendale Station and Sepulveda, the following:

Item 1: 20,000 ft. 6-in. class 250 cast iron pipe;
Item 2: 15,000 ft. 8-in. class 250 cast iron pipe;
Item 3: 5,000 ft. 12-in. class 250 cast iron pipe.

All of the above pipe to conform to United States Government master specifications for centrifugally cast iron pipe. Spec. No. 537.

Quantity specified may be increased or decreased twenty-five per cent at the option of the City of Glendale, at any time before signing of contract. Certified check, 10%. G. E. Chapman, city clerk.

SAN FRANCISCO—A. C. Griewank 208 Mission St., is taking bids to furnish and install a deep well turbine pump and 60-hp. boiler of 50 lbs. pres-

sure in connection with the Eng-Skell Building now in course of construction at the southeast corner of Howard and Russ Sts.

STREETS AND HIGHWAYS

STOCKTON, San Joaquin Co., Cal.—County Surveyor Julius B. Manthey is preparing plans for proposed Brumel road, between Victor and Lockeford.

SALINAS, Monterey Co., Cal.—Until September 2, bids will be received by county supervisors to furnish and deliver 4500 yards of crushed rock for road repairs in vicinity of Greenfield. Specifications obtainable from Howard Cozzens, county surveyor.

LOS ANGELES, COUNTY Cal.—Following bids received Aug. 6 by State Highway Commission to widen with bituminous treated rock borders, 4.3 miles between Santa Clara river and Castaic School:
Southwest Paving Co., L. A.\$16,425
Gibbons & Reed Co., Burbank..... 18,225
F. W. Nighbert, Bakersfield..... 21,105

SAN JOSE, Santa Clara Co., Calif.—Until August 18, 11 A. M., bids will be received by Henry A. Pfister, county clerk, to improve Hecker Highway in Supervisor District No. 1. Specifications obtainable from Robt. Chandler, county surveyor, on payment of \$3.

WASHOE COUNTY, Nevada.—Until August 20, 2 P. M., bids will be received by S. C. Durkee, state highway engineer, Carson City, to grade, construct structures and place surfacing materials on 2.54 miles bet. Sparks and Vista.

Certified check 5% required with bid. Plans obtainable from engineer on deposit of \$15 of which \$10 is returnable. Plans on file in office of U. S. Bureau of Public Roads, 461 Market St., San Francisco.

MONO COUNTY, Cal.—Following bids received Aug. 6 by State Highway Commission to grade 12.9 miles between Sonora Junction and Coleville:

Kennedy Bayless Constr. Co.
Biggs\$161,510
A. Teichert & Son, Sacramento 191,324
O. A. Lindberg, Stockton..... 216,729
Isbel Constr. Co., Carson City, Nevada 224,783
Gist & Bell, Arcadia..... 244,895
McCray Co., Los Angeles..... 267,988
J. P. Holland, Inc., S. F. 275,100
Finell Co., Inc., Sacramento..... 280,833

Bids held under advisement

MARTINEZ, Contra Costa Co., Cal.—Until September 8, bids will be received by county supervisors to pave

West Street in town of Crockett, between Edwards and Loring Sts., and Winslow Ave., bet. West and Valley Sts.; estimated cost \$6500. Specifications obtainable from R. R. Arnold, county surveyor.

REDWOOD CITY, San Mateo Co., Cal.—Until August 13, 10 A. M., bids will be received by Elizabeth M. Kneese, county clerk, (23) to improve Oak Knoll Dr. from Lake Blvd. and Vista Dr. northerly, involving grading; 4-in. waterbound rock macadam base with 3-in. asph. conc. surface; guard rails; 6-in. vit. san. sewers; 30-in. hyd. cem. conc. pipe spillway or storm drain; brick manholes. 1911 Act. Certified check 10% payable to county required with bid. Plans obtainable from George A. Kneese, county surveyor.

SACRAMENTO COUNTY, Cal.—Until August 18, 2 P. M., bids will be received by R. E. Pierce, district engineer, State Highway Commission, 502 State Office Bldg., Sacramento, to improve highway between Twin Cities School and 1½ miles northeast of Herald, 4.6 miles in length, involving crushed gravel or stone borders with bituminous surface treatment to be constructed 3 ft. wide on both sides of existing pavement. Specifications obtainable from above.

See call for bids under official proposal section in this issue.

CLARK COUNTY, Nevada.—Until August 20, 2:30 P. M., bids will be received by S. C. Durkee, state highway engineer, Carson City, to furnish asphaltic fuel oil, apply and mix with crushed rock or crushed gravel surface from Crystal to West Slope Mormon Mesa, a length of 20.22 miles.

Certified check 5% required with bid. Plans obtainable from engineer on deposit of \$15 of which \$10 is returnable. Plans on file in office of U. S. Bureau of Public Roads, 461 Market St., San Francisco.

ALTURAS, Modoc Co., Calif.—Until August 18, 8 P. M., bids will be received by E. E. Elliott, city clerk (3) to improve Main St. bet. Carlo and 12th Sts. Project involves:
(1) 29,000 sq. yds. asph. conc. pave.;
(2) 4,600 cu. yds. crushed rock sub-base;
(3) 8,000 linear feet curbs and gutters (hyd. cement concrete);
(4) 4,600 sq. yds. hyd. cem. concrete sidewalks;
(5) 5,300 lin. ft. 4- and 6-inch water mains with fittings.

1911 Act. Bond Act 1915. City will pay \$25,000 of total cost from General Fund in city treasury. Plans obtainable from S. A. Mushen, city engineer.

SAN DIEGO COUNTY, Cal.—Following bids received Aug. 6 by State Highway Commission to pave with Portland cement concrete, 5.4 miles between Balboa Ave. and Torrey Pines Road:

Jahn & Beresi Constr. Co., Los Angeles\$171,425
Basich Bros. Constr. Co., Los Angeles 177,863
Matich Bros., Elsinore..... 177,873
McCray Co., Los Angeles..... 182,835
E. Paul Ford, East San Diego 184,177
Butterfield Constr. Co., San Diego 185,180
J. F. Knapp, Oakland..... 188,200
T. M. Morgan Paving Co., Los Angeles 189,531
Daley Corp., San Diego..... 190,363
Bart Noble, San Diego..... 191,731
C. R. Dennis Constr. Co., San Diego 195,677
R. E. Hazard Contracting Co., San Diego 203,380

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Class Pacific Coast Construction

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MARIN COUNTY, Calif.—Granfield, Farrar and Carlin, 67 Haff Ave., San Francisco, at \$54,415 awarded contract by State Highway Commission to grade and surface with bituminous macadam, 1.3 miles between Belvedere Crossing and Tiburon.

SAN LUIS OBISPO COUNTY, Cal.—Cornwall Const. Co., 219 E. Mason St., Santa Barbara, at \$130,829 awarded contract by State Highway Commission to grade and pave with cement concrete 3 miles between San Luis Obispo and Cuesta Grade.

SOLANO CO., Calif.—A. Mitchell, Sacramento, at \$3,050.93 awarded contract by State Highway Commission to construct property fences, etc., between Creston and Vacaville.

LAGUNA BEACH, Orange Co., Cal.—Until August 13, 7:30 P. M., bids will be received by G. W. Prior, city clerk, to improve High Drive and other Sts. in Laguna Cliffs District involving 46,000 cu. yds. grading; 1,060,000 sq. ft. oil and rock surfacing; 78,000 cu. ft. oil macadam; curbs, gutters, etc. Plans obtainable from A. J. Stead, city engineer.

DAVIS, Solano Co., Cal.—City Council declares intention (159) to improve portions of Beech St., involving grading; 1-course, 4-inch asphalt. conc. pave; basalt block headers; hyd. cem. conc. valley gutters. 1911 Act. Bond Act 1915. Hearing August 13. F. A. Plant, city clerk.

VALLEJO, Solano Co., Cal.—Until August 11, 11 A. M., bids will be received by Alf. E. Edgumbe, city clerk, (172) to improve Florida St., bet. Sonoma Ave. and Alameda St., including crossings, involving re-grading; re-pave with 4-inch base course and 2-inch top course asphalt concrete; 4-inch vitrified clay pipe house lateral sewers. 1911 Act. Bond Act 1915. Certified check 10% payable to city required with bid. Specifications obtainable from City Engineer T. D. Kilkenny.

WEAVERVILLE, Trinity Co., Cal.—Supervisors of Trinity, Humboldt and Tehama Counties have formed joint highway district to improve Red Bluff-Eureka Highway. Wynn Meredith of Eureka has been appointed engineer for the district.

LOS ANGELES, Cal.—Until August 18, 2 P. M., bids will be received by county supervisors to improve Richfield and Ocean Aves., in vicinity of Hynes and Long Beach, involving in the main: 13,500 cu. yds. excavation; 230,000 sq. ft. 8-7-9-in. conc. pave; 245,000 sq. ft. 5-in. D. R. and old macadam base with alternate bids for 230,000 sq. ft. 6-in. asphalt. conc. base; 230,000 sq. ft. 4-in. D. R. pave, with rock and oil surface; 495,000 sq. ft. 5-in. D. R. and old macadam or broken conc. base; culverts, etc., with alternate bids for 480,000 sq. ft. 6-in. asphalt. conc. base and 480,000 sq. ft. 1½-in. asphalt. conc. surface pave. Plans on file in office of city clerk.

LOS ANGELES, Cal.—Until August 18, 2 P. M., bids will be received by county supervisors to improve Main St. south of Artesia, from Orange-Thorps Ave. south to Centralia road, etc., (18,000 lin. ft.), involving in the main 32,545 cu. yds. excavation; 435,000 sq. ft. 9x7x9-in. conc. pave; 180,000 sq. ft. 4-in. D. R. pave, with rock and oil surface; 495,000 sq. ft. 5-in. D. R. and old macadam or broken conc. base; culverts, etc., with alternate bids for 480,000 sq. ft. 6-in. asphalt. conc. base and 480,000 sq. ft. 1½-in. asphalt. conc. surface pave. Plans on file in office of city clerk.

SAN FRANCISCO—C. B. Eaton, 715 Ocean Ave., at \$46,338 submitted low bid to Board of Public Works to improve portions of streets in the Castro Street Addition and Glen Park Terrace, involving grading; armored concrete curbs; concrete walks; 2-inch asphalt. conc. surface pavement on 6-in. class F concrete base; brick catch-basins and manholes; side sewers. Complete list of bids follows:

C. B. Eaton	\$46,338
Fay Imp. Co.	47,071
E. J. Gallagher	47,116
Meyer Rosenberg	47,144
E. J. Treacy	48,246
C. L. Harney	50,854
M. J. Lynch	53,770

SAN FRANCISCO—C. B. Eaton, 715 Ocean Ave., at \$20,663 submitted low bid to Board of Public Works to improve Ulloa St. bet. 35th and 38th Aves. and 36th and 37th Aves., between Taraval and Vicente Sts. Complete list of bids follows:

C. B. Eaton	\$20,663
Fay Imp. Co.	21,383
C. L. Harney	21,912
A. G. Raichs	22,863
E. J. Treacy	25,390
Meyer Rosenberg	25,655

LOS ANGELES, Cal.—Griffith Co., L. A. Railway Bldg., at \$373,926 submitted low bid to Board of Public Works to improve Olive St. bet. Pico and 23rd Sts., etc. Involving in the main: grading, \$18,000; storm drain, \$198,280; sanitary sewer, \$11,000; street lighting system, \$42,500; asphalt. conc. pavement, etc.

TULARE COUNTY, Cal.—Until August 21, 2 P. M., bids will be received by C. H. Sweetser, district engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, to grade portions of Section 1-B, Generals Highway, Hospital Rock to Giant Forest, in Sequoia National Park, 4.514 miles in length, involving:

8.76 acres clearing;
43,400 cu. yds. unclassified excav.;
500 cu. yds. do. for structures;
5,500 cu. yds. do. for borrow;
30,861 sta. yds. overhaul;
5,400 cu. yds. crush and place sub-grade reini. material;
300 cu. yds. supplemental subgrade reinforcement material;
14,000 cu. yds. m. hauling subgrade reinforcement material;
82 cu. yds. cement rubble masonry;
1,248 lin. ft. corr. metal pipe in place
320 cu. yds. hand laid rock embankment;
84 lin. ft. haul and place Government furnished C.M.P.;
6,000 cu. yds. miscellaneous borrow;
1,500 lin. ft. stone guard rail.

Specifications obtainable from engineer on deposit of \$10, check for same to be made payable to Federal Reserve Bank of San Francisco.

SAN RAFAEL, Marin Co., Cal.—S. McGaw, San Rafael, awarded contract

by city council (513) to improve portions of Jewell St., Acacia Ave., Palm Ave., etc., involving grading; ironstone pipe main sewers and side sewers, hyd. concrete manholes, corr. iron pipe culverts; hyd. conc. and corr. iron arch culverts; hyd. conc. catch-basins; pave with stone sub-base with hyd. conc. surface; hyd. conc. curbs and gutters.

EUREKA, Humboldt Co., Cal.—Until August 12, 2 P. M., bids will be received by Fred M. Kay, county clerk to furnish and deliver 1,000 cubic yards, more or less, crushed rock on District Hill road near Arcata in Road Dist. No. 5. Certified check 5% required with bid. Specifications obtainable from Frank Kelly, county surveyor.

REDWOOD CITY, San Mateo Co., Cal.—City council declares intention (M-12) to improve portions of Hawes St., involving grading; 5-in. cement concrete paving on 3-inch broken stone cushion on 1-inch sand base; cement concrete curbs; portions of Rubby St., involving 4-ft. by 5-ft. reinf. cem. conc. box culverts, etc.; one timber bridge vlt. sewers, etc. 1911 Act. Bond Act 1915. City will pay \$7000 of cost from 1930 Bond Fund. Hearing August 11. B. E. Myers, city clerk. C. L. Dimmitt, city engineer.

OROVILLE, Butte Co., Cal.—Until August 18, 1:30 P. M., bids will be received by C. F. Belding, county clerk, to grade 4 miles of Fell road, located about 7 miles west of Chico. Certified check 10% required with bid. Specifications obtainable from J. A. Baumgarner, county road engineer.

SAN CARLOS, San Mateo Co., Cal.—Until August 11, 10 A. M., bids will be received by Julius M. Edling, town clerk, to improve Holly street from old County Road north to Bayshore Highway. Certified check 10% payable to town required with bid. Plans on file in office of clerk and obtainable from town engineer.

FRESNO, Fresno Co., Cal.—Until August 14, 10:30 A. M., bids will be received by H. S. Foster, city clerk, (105-D) to improve portions of Glenn Ave., involving cement concrete paving; cem. conc. curb and driveway approaches. 1911 Act. Certified check 10% payable to city required with bid. Plans on file in office of clerk.

OAKLAND, Cal.—Until August 14, 12 noon, bids will be received by Frank C. Mcritt, city clerk, to improve Rust St. bet. 54th Ave. and 55th Ave. Bond of \$3500 required of successful bidder. Specifications on file in office of clerk. Walter N. Frickstad, city engineer.

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San Francisco

SANTA BARBARA COUNTY, Cal.—Until August 15, 2 P. M., bids will be received by L. H. Gibson, district engineer, State Highway Commission, Bank of Italy Bldg., San Luis Obispo, for approx. four miles of improvement in Santa Barbara County, bet. El Capitan Creek and one mile south of Tulguis Creek, involving borders to be constructed of crusher run base and surface thereon to be oil treated. Specifications obtainable from above.

ALAMEDA COUNTY, Cal.—Following bids received August 4 by John H. Skeggs, district engineer, State Highway Commission, San Francisco, to furnish and install perforated metal pipe underdrain between Dublin and Hayward:

Artes Knapp Co., Oakland.....	\$3,303.30
L. C. Siedel.....	7,242.20
Lee J. Immel, Berkeley.....	7,770.00
Oakland Constr. Co., Oakland.....	8,055.55
Jack Casson, Hayward.....	8,799.75
C. V. Cowden, Oakland.....	9,898.00
O. G. Ritchie.....	9,903.75
Thomas Healy, Berkeley.....	11,337.50

Bids held under advisement.

PLUMAS COUNTY, Cal.—Following bids were received August 5 by Dist. Engineer, U. S. Bureau of Public Roads, San Francisco, to grade 8.335 miles of Section E, Route 23 of the Quincy-Beckwith National Forest Highway in Plumas National Forest, involving:

26.55 acres clearing; 212,083 cu. yds. unclass. excavation; 837 cu. yds. struc. excavation; 42,398 sta. yds. overhaul; 8,335 miles finishing; 16.9 M. B. M. treated timber in place; 400 lin. ft. treated timber piling in place; 174 cu. yds. concrete in place; 6,350 lbs. reinf. steel in place; 4,166 lin. ft. corrugated metal pipe in place; 140 sq. yds. bit. wearing surface in place; haul and pile logs (lump sum); 150 right of way monuments (each).

Chas. Harlowe, Oakland (1) treated, \$118,434; (2) untreated, \$113,295.
Granfield, Farrar and Carlin, San Francisco, (1) \$120,840; (2) \$120,474.
Kennedy-Bayles, Oakland (1) \$123,878; (2) \$123,539.

Gist and Bell, Arcadia (1) \$128,090; (2) \$127,724.

Healy-Tibbitts Const. Co., San Francisco, (1) \$129,401; (2) \$129,497.

Isbell Const. Co., Fresno, (1) \$131,930; (2) \$132,010.

A. J. and J. L. Fairbanks, South San Francisco, (1) \$134,244; (2) \$133,425.

Hemstreet and Bells, Marysville, (1) \$134,408; (2) \$134,226.

Morrison, Knudsen Co., Boise, Idaho (1) \$134,895; (2) \$134,798.

H. H. Boomer, San Francisco, (1) \$135,604; (2) \$134,099.

C. P. Johnson, Portland, Ore., (1) \$138,094; (2) \$137,554.

T. E. Connolly, San Francisco, (1) \$140,771; (2) \$140,128.

Nate Lovelace, Visalia, (1) \$146,724; (2) \$145,512.

A. C. Greenwood, Portland, Ore., (1) \$148,681; (2) \$148,295.

S. H. Palmer, San Francisco, (1) \$152,984; (2) \$152,790.

B. B. Body, San Diego, (1) \$179,326; (2) \$179,177.

Engineer's estimate, (1) \$141,520; (2) \$141,387.

PLACER COUNTY, Cal.—Until August 20, 2 P. M., bids will be received by C. H. Whitmore, district engineer, State Highway Commission, 502 State Office Building, Sacramento, to construct property fence through Lincoln and 0.3 mile northerly. Specifications obtainable from engineer.

See call for bids under official proposal section in this issue.

SANTA BARBARA, Cal.—Until August 21, 12 noon, bids will be received by city council to construct E Cabrillo

Bldg., wall or revetment. Will be built of rip-rap, sheet piling and asphalt surfacing, approx. 3000 ft. in length. City has appropriated \$74,000 to finance. Plans obtainable from G. E. Verrill, consulting engineer, 1 W. Cabrillo Blvd., Santa Barbara.

REDDING, Shasta Co., Cal.—Until August 15, bids will be received by directors of Joint Highway District No. 11 to construct Weed-Klamath road project (1st unit), comprising Section from Station 0 plus 00 to 142 plus 15, involving:

- (1) 9.8 acres clearing;
- (2) 51.44 cu. yds. unclass. excavation;
- (3) 113 cu. yds. unclass. excavation for structures;
- (4) 21,803 sta. yds. overhaul;
- (5) 2.3 miles finish earth graded road;
- (6) 8.52 cu. yds. class C concrete;
- (7) 91 lbs. reinforcing steel;
- (8) 582 lin. ft. 18-in. G. C. M. P.

Estimated cost \$65,000. Plans obtainable from Carl F. Mau, district engineer at Redding.

SAN BRUNO, San Mateo Co., Cal.—Hanrahan Co., Standard Oil Bldg., San Francisco, at \$13,039.10 awarded contract by city trustees (1129) to improve Scott St., San Mateo Ave., Pacific, Atlantic, Bay Shore Circle, north and south, and other streets, involving grading; paving; cement concrete curbs, gutters, sidewalks; cement concrete pipe storm water sewers; manhole; catchbasins. Complete list of bids, all bidders of San Francisco, follows:

Hanrahan Co.....	\$43,009
Union Paving Co.....	51,525
Eaton & Smith.....	55,663

BUSINESS OPPORTUNITIES

SAN FRANCISCO—Names and addresses of the individuals or firms concerned in these opportunities will be furnished on request to the Business Opportunity Department of Daily Pacific Builder, 545-547 Mission Street, Phone GARfield 7744.

20350—Cranes. San Francisco, Calif. A French manufacturer of cranes suitable for loading and unloading trucks seeks an agent in San Francisco.

20355—Asphalt. Havana, Cuba. Company is offering asphalt, both brilliant and dark, at \$24 per ton double sacked in sugar sacks, dockside, Havana. Samples and terms on file.

20357—Printing Presses. Guayaquil, Ecuador. Party desires to communicate with manufacturers of small hand presses for stamping envelopes, letters, maps, cards, loose leaves, periodicals, etc., with all the necessary accessories.

20358—Representation. New York, N. Y. Corporation with sales organization in England, Union of South Africa, and India, is desirous of representing local houses in these countries. American references.

Kay Engineering Co., Inc., John B. Yates, president, 103 Park Ave., New York City, is desirous of securing representation of a manufacturing concern that needs a New York office with a skilled selling force of scientific men.

National Electric Corp., J. C. Keane, vice-president, Pittsburgh, Pa., desires to secure connection with man familiar with heating and contracting work.

Mr. Phillip P. Glick, 3733 Gindell Blvd., St. Louis, Mo., is desirous of making a business connection. This gentleman is a graduate in mechanical engineering and has had nine years

of practical experience covering purchasing, production and service department management.

C. A. Rex, The Coffield Washer Co., Dayton, Ohio, is desirous of negotiating with someone with a view to their manufacturing a washer under license for reselling in the Pacific Coast States.

E. A. Costello, San Jose, Calif., wishes to secure some building material firm in San Francisco who wishes to expand their business down the Peninsula.

Geo. Berchek & Assn., 2619 Chippewa St., St. Louis, Mo., has a small, competent organization which can meet the demands of parties interested in representation in St. Louis.

Loren Risk, 626 Plymouth Building, Minneapolis, Minn., tire pump manufacturer, wishes to contact manufacturer for the purpose of marketing and manufacturing his product. Will be in San Francisco within a few weeks.

GROSSMANN WINS DEGREE

Marcus A. Grossmann, chief assistant to F. J. Griffiths, president of the Republic Research Co., research subsidiary of the Republic Steel Corp., has been presented with the degree of Doctor of Science by Harvard University. The degree follows on work in studying the quality and behavior of special steels.

In collaboration with E. C. Bain, Grossmann has written a book on high speed steels, which is now on the press. He has been chosen to give the annual lecture before the American Society for Steel Treating in Chicago in September. Dr. Grossmann will sail for Europe July 24 in company with Mr. Griffiths to spend the next few weeks in Europe studying the alloy steel situation.

TO MEASURE IMPACT OF MOTOR BUS ON ROADS

Tests of the impact of motor busses on modern highway surfaces will be initiated early next month by the Bureau of Public Roads, U. S. Department of Agriculture in co-operation with the Society of Automotive Engineers and the Rubber Manufacturers Association. The War Department has made available for the test a stretch of concrete paving at the Aberdeen Proving Grounds, Aberdeen, Md., and a manufacturer has loaned a large bus of interurban type which will be operated at speeds up to 50 or 60 miles an hour. It is expected that the test will continue for about two months.

Apparatus developed in connection with the bureau's previous co-operative studies of motor-truck impact will be used to determine the magnitude of the impacts produced by large, heavily loaded busses equipped with various types and sizes of tires. The tires for the tests are to be furnished by the tire manufacturers and include both high-pressure and balloon types of the latest designs.

These studies of the impacts of bus traffic are the latest of a series of impact investigations the bureau has been making for the last ten or eleven years. The earliest studies dealt with the destructive effect on pavements of heavily loaded motor trucks, especially those with poor tire equipment. These tests demonstrated in a striking manner the protection afforded to pavements by the pneumatic tire and by the six-wheel vehicle, both of which are widely used today.

Contracts Awarded

Liens, Acceptances, Etc.

BUILDING PERMITS

SAN FRANCISCO COUNTY

976	Dann	Kopfer	1000
977	Svenson	Owner	4500
978	Heyman	Owner	7000
979	Suncal	Mission	80000
980	Johnson	Industrial	9000
981	Stenson	Owner	4000
982	Johnson	Owner	3500
983	Burke	Owner	2000
984	Baer	Owner	1500
985	Owl	Owner	2000
986	Anderson	Owner	4000
987	Meyer	Owner	2000
988	Hammond	Owner	5000
989	Struthers	Owner	3500
990	Christensen	Presco	1000
991	Standard	Owner	2000
992	Agerupe	Owner	1315
993	Stoneson	Owner	12000
994	Deshler	Owner	1000
995	Hock	Owner	1000
996	Pacific	Owner	35000
997	Montgomery	Mattock	3000
998	Ohlson	Owner	4000
999	Hornung	Moore	5000
1000	Tonna	Delucchi	1600
1002	Urre	Bourdieu	3000
1003	Stucki	Mattock	5000

ALTERATIONS

(976) E BRUSSELS 200 S Silver Ave.
Stucco front and re-roof.
Owner—M. Dann, 65 Brussels Ave.,
San Francisco.
Architect—None.
Contractor—P. J. Kopfer, 1320 Girard
St., San Francisco. \$1000

DWELLING

(977) E PLYMOUTH AVE. 125 N
Halloway. One-story and base-
ment frame dwelling.
Owner—J. Svenson, 1116 Plymouth
Ave., San Francisco.
Architect—None. \$4500

DWELLINGS

(978) E DARTMOUTH 351 N Silver
Ave. Two one-story and base-
ment frame dwellings.
Owner—Heyman Bros., 742 Market
St., San Francisco.
Architect—None. \$3500 each

APARTMENTS

(979) NE BUENA VISTA AVE. and
Waller St.; six-story, basement
and sub-basement class B (34)
apartments.
Owner—Suncal Inv. Co., care architect
Architect—A. H. Larsen, 447 Sutter.
Contractor—Mission Concrete Co., 279
Turk St. \$50,000

BUILDING

(980) E NINTH ST. 150 N Harrison;
two-story concrete class C indus-
trial building.
Owner—W. Johnson, care architect.
Architect—W. D. Peugh, 315 Mont-
gomery St.
Contractor—Industrial Const. Co., 815
Bryant St. \$9000

DWELLING

(981) W WATERVILLE 75 N Augus-
ta; one-story and basement frame
dwelling.
Owner—J. Stenson, 2 Church St.
Architect—None. \$4000

DWELLING

(982) W 25th AVE. 225 S Ulloa; one-
story and basement frame dwell-
ing.

Owner—N. E. Johnson, 666 Mission St.
Architect—None. \$3500

REPAIRS

(983) 4614 17th ST.; repair fire dam-
age.
Owners—J. R. and J. P. Burke, 4614
17th St.
Architect—None. \$2000

STORE & RESTAURANT

(984) N GEARY 40 E 22nd; one-story
frame store and restaurant.
Owner—A. Baer, 224 Balboa Bldg.
Plans by B. K. Dobkowitz, 425 Mont-
erey Blvd. \$1500

ALTERATIONS

(985) 151 GRANT AVE.; alterations
to drug store.
Owner—The Owl Drug Co., 657 Mis-
sion St.
Plans by E. A. Duval, Dalziel Bldg.,
Oakland. \$2000

DWELLING

(986) W TWENTY-FIFTH AVE 350
S Rivera. One-story and basement
frame dwelling.
Owner—N. W. Anderson, 2427 24th
Ave., San Francisco.
Architect—None. \$4000

DWELLINGS

(987) N ROCKDALE 32 E Isola; five
one-story and basement frame
dwellings.
Owner and Builder—Meyer Bros., 727
Portola Drive.
Architect—None. \$4000 each

DWELLING

(988) NE 17th AVE. and Vicente; 1-
story and basement frame dwell-
ing.
Owner—L. B. Hammond, 520 Vicente.
Architect—None. \$5000

DWELLING

(989) E ARKANSAS; one-story and
basement frame dwelling.
Owner—M. T. Struthers.
Architect—None. \$3500

REPAIRS

(990) 9-11 ENDICOTT PARK; repair
fire damage.
Owner—A. C. Christensen, Fresno, Cal.
Architect—None.
Contractor—O. Presco & Sons, 55 Ster-
ling St. \$1000

ALTERATIONS

(991) W ARKANSAS near 16th St.;
alterations to shop and repair
roof.
Owner—Standard Oil Co., 225 Bush St.
Architect—None. \$2000

REPAIRS

(992) 1829 EIGHTH AVE.; repair fire
damage.
Owner—Mrs. Agerupe, 1839 8th Ave.
Architect—None. \$1215

DWELLINGS

(993) S SENECA 104 W Cayuga; 3
1-story and basement frame dwell-
ings.
Owner—Stoneson Bros. & Thorlinton,
279 Yerba Buena Ave.
Architect—C. F. Strothoff, 2274 15th
Street. each \$4000

DWELLING

(994) W ASHTON 80 S Fairfield; 1-
story and basement frame dwell-
ing.
Owner—Mrs. L. Deshler, 930 Shields
Street.
Plans by W. Deshler, Jr. \$1000

ALTERATIONS

(995) SW FRANKLIN & Post Sts.;
alterations to store front.
Owner—C. H. Hock, care architect.
Architect—C. E. J. Rogers, Phelan
Bldg. \$1000

ALTERATIONS

(996) 850 HOWARD ST.; alterations
to auto sales and service bldg.
Owner—Pacific Gillespie System, Inc.,
79 New Montgomery St.
Architect—J. S. Reed, 79 New Mont-
gomery St. \$35,000

ALTERATIONS

(997) 2350 VALLEJO ST.; alterations
Owner—D. W. Montgomery, 2350 Val-
lejo St.
Architects—A. Farr and F. Ward, 53
Post St.
Contractors—A. F. and C. W. Mattock,
210 Clara St. \$3000

DWELLING

(998) E 29th AVE. 100 N Lawton; 1-
story and basement frame dwell-
ing.
Owner—O. J. Ohlson, 1626 24th Ave.
Architect—None. \$4000

ALTERATIONS

(999) SW 24th and BRYANT; alter-
ations to flat for two apts. and
build four garages.
Owner—C. Hornung, 297 Fell St.
Architect—None.
Contractor—G. T. Moore, 1458 Noe St.
\$5000

ALTERATIONS

(1000) 1623 JERROLD; raise and al-
ter dwelling.
Owner—J. Tonna, 1623 Jerrold Ave.
Architect—None.
Contractor—D. Delucchi & Sons, 3007
San Bruno Ave. \$1600

ALTERATIONS

(1001) 532 COLE ST.; alterations to
three flats for six apartments.
Owner—Mr. Urre, 2943 Mission St.
Architect—None.
Contractor—J. B. Bourdieu, 2526 20th
Street. \$3000

DWELLING

(1002) 39th AVE. 217 S Clement St.;
two-story and basement frame
dwelling.
Owners—L. M. Stucki and M. A. Wars-
wick, 1927 Sutter St.
Architect—W. Wethered, 16 Turk St.
Contractors—A. F. and C. W. Mat-
tock, 210 Clara St. \$5000

CAPITAL CITY TILE COMPANY

J. C. PALEN

Manager

914 Seventh Street

Sacramento - - - California

ALTERATIONS
(1003) 55 ELLIS ST.; alterations for cigar store.
Owner—Sommer & Kaufmann, Inc., 838 Market St.
Architect—A. F. Roller, Crocker First National Bank Bldg.
Contractor—F. J. Walker Co., 607 Sharon Bldg. \$7000

BUILDING CONTRACTS

San Francisco County

163 General	Harris	1060
164 Baer	Elvin	2070
165 Allen	Peterson	9900

REPAIRS
(163) 340 FIRST ST.; general repairs. Owner—General Electric Co., Russ Building.
Architect—None.
Contractor—D. Harris as Fulton Co., 30 Jessie St.
Filed July 31, '30. Dated July 30, '30. Six days after work commences. \$530
Work completed 265
Usual 35 days 265
TOTAL COST, \$1060
Bond, \$530. Sureties, Glens Falls Indemnity Co. Limit, 12 days. Plans & Spec. filed.

STORE
(164) N GEARY ST. 50 E 22nd Ave. E 20 x N 100; all work on 1-story frame store building (two stores). Owner—Alfred Baer, Balboa Bldg.
Architect—B. K. Dobkowitz, Monterey Blvd.
Contractor—Arthur Elvin, 1244 30th Avenue.
Filed and Dated August 6, 1930.
Frame up \$500
Rough plaster on 500
Completed and accepted 500
Usual 35 days 578
TOTAL COST, \$2078
Bond, \$1100. Sureties, W. J. Stevens and Frank Elvin. Limit, Sept. 25, '30. Plans and Spec. filed.

FLATS
(165) E DIMOND 75 N 18th St. bet. 18th and Market Sts.; all work on two flat buildings (5 rooms each). Owners—J. F. and F. Allen, 46 Pixley St.
Architect—None.
Contractor—A. Peterson.
Filed Aug. 6, '30. Dated Aug. 5, '30.
Roof on \$2475
Brown coated 2475
Completed 2475
Usual 35 days 2475
TOTAL COST, \$9900
Bond, \$4950. Sureties, F. G. Norman & Sons and Chas. Anderson. Limit, 90 days. Plans and Spec. filed.

COMPLETION NOTICES

San Francisco County

Recorded	Accepted
July 31, 1930—NO. 650 LAKE ST. NE Lake and Eighth Ave. Rachel K Van Winkle to R A Chisholm Son	July 31, 1930
July 30, 1930—NE HOLYOKE 200 SE Felton 25x100. Stephen Lepo to whom it may concern.	July 25, 1930
July 30, 1930—S MARKET ST 75 W 3rd St W 50 x S 100. Alexander Boyd Estate to Barrett & Hilp.	July 30, 1930
July 30, 1930—N KENT 70 W Mason. Giuseppe Queirolo to L Murer & Company.	July 25, 1930
July 30, 1930—NE PALOU AVE 175 SE Newhall 25x100. Thos R Sharman to whom it may concern.	July 24, 1930
July 31, 1930—N LAKEVIEW AVE 125 W San Jose Ave. John Gor-	

don to William Duerner Jr.	July 31, 1930
August 4, 1930—NW LAKE and 25th Ave W 32-6 x N 108. Lloyd B Ham to whom it may concern.	July 31, 1930
August 4, 1930—N WILLIAMS Ave 75 W Ceres 25x100. Joe Galea to Joseph Luchini.	July 19, 1930
August 4, 1930—W 29th Ave 225 N Lawton 25x120. Emil E and Carl E Erickson to whom it may concern.	August 4, 1930
Correction in Location.	
August 4, 1930—N FRANCISCO 168-9 W Broderick W 25 x N 137-6. Madeline G O'Brien to whom it may concern.	August 4, 1930
August 4, 1930—E 22nd Ave 25 N Wawona N 225 E 120 S 150 W 37-6 S 75 W 32-6. Meyer Bros to whom it may concern.	July 31, 1930
August 4, 1930—BOUNDED by 23rd St and extras of Georgia, Louisiana and Humboldt Sts. P G & E Co to J C Williams Const Co.	July 30, 1930
August 4, 1930—W MAJESTIC Ave 250 NE Lakeview Ave. 25x100. A R and A C Peterson to whom it may concern.	August 4, 1930

August 2, 1930—N HEARST AVE & W Baden St 50x100. Luigi Baciagalupi to whom it may concern.	July 25, 1930
Correction in Location.	
August 2, 1930—NW PRAGUE 225 NE Persia Ave NE 25 x NW 100. Block 90, Excelsior Hld Assn. E Larson to whom it may concern.	July 31, 1930
August 1, 1930—E EDGEHILL WAY known as 400 Edgehill Way, being lot 14 blk 2935 Forest Hill Extn. J B and Janette Newman to H W Armbrust.	August 1, 1930
August 1, 1930—LOT 39 BLK 2914, Laguna Honda Park. J V Campbell to whom it may concern.	July 31, 1930
August 1, 1930—N SANTA MARINA 80 E Prospect. Anna J Peterson to whom it may concern.	July 21, 1930
August 1, 1930—W 18th Ave. 175 N Lawton N 50 x W 120. Herman Christensen to whom it may concern.	August 1, 1930
July 31, 1930—No. 647 TENTH AVE. Henry E Hengerveld to Delmar Maede	

LIENS FILED

San Francisco County

Recorded	Amount
July 31, 1930—NE 46th AVE and Ortega 100x57-6, 1896 46th Avenue. Jean Tignard, \$498; J Gibbini, \$65 vs John Volz.	
July 29, 1930—NE 46th AVE and Ortega 100x57-6, 1896 46th Avenue. Readymix Concrete Co, \$31; A C Rank, \$175, vs John Volz.	
July 31, 1930—SE PAGE AND LINCOLN 84y and 17th Ave 32-6x100. W E Trousdale vs R D, W O and T I Lang	\$1069
August 2, 1930—SW PACIFIC AVE and Buchanan St. 62-6x127-8-4. Wm Edie vs I Epp & Son.	\$55
August 1, 1930—SE LINCOLN WAY and 17th Ave E 32-6 x S 100. W E Trousdale vs R D, W O and T I Lang	\$1069
August 5, 1930—W STEINER 92-8-4 N Jackson N 35 x W 75 J I Singewald as Reliable Plumbing & Heating Co vs M Zelinsky and E A Cornely.	\$285
Aug 5, 1930—NE APPLETON AVE 52-3-4 SE Mission SE 39 x NE 34 Blk 1 Fairs Sub, Holly Park Tract. Harry and Samuel Ginsberg as Ginsberg Title Co vs Ernest Watson	\$175

RELEASE OF LIENS

San Francisco County

Recorded	Amount
August 2, 1930—N PINE ST 73 W Baker W 33-3 N 50 E 36 S 25 W 2-9 S 25. Carleole Wall Paper Co, Inc, San Francisco Gravel Co, Mannix & Kelly, Levy Electric Co to Anne C McDonald.	
August 2, 1930—N PINE ST 31-3 E Lyon E 25 x N 80. E Jensen to Thomas and Anna C O'Donnell or Anna McDonald.	
August 2, 1930—S OCEAN AVE 75 E Jules E 50 x S 100, Lots 20 and 21 Blk 24, Lakeview, Albert Cook, Roma Hardwood Floor Co, H H Smith, Peter Sorensen, MacCabe Electric Co, Tyre Bros Glass Co to Charles H and Theresa Duerner, J Satmary.	
July 30, 1930—W 17th Ave 275 N Geary N 25 x W 120, 351 17th Ave. Inland Floor Co to whom it may concern.	

BUILDING PERMITS

Alameda County

951 Pizzotti	Anderson	6000
952 Vosbeck	Carlson	4000
953 Krattenmaker	Owner	3500
954 Urech	Owner	6250
955 Reboil	Owner	5000
956 Standard	Owner	2000
957 Lardner	Owner	6000
958 Leiter	Owner	6000
959 Allan	Owner	3000
960 Roberts	McCord	2100
961 Wieg	Owner	7000
962 Merserem	Henderson	3500
963 Dana	Brennan	2800
964 Willow	Campomenosi	43000
965 Allen	Owner	8000
966 Belleville	Dague	1000
967 Fleming	Owner	3950
968 Persons	Hooper	4000
969 Fosselli	Marietti	1800
970 Dands	Langtry	4250
971 Hiroo	Owner	2000
972 Painter	Owner	6500
973 Hagashi	Hunter	1500
974 Fleming	Owner	3500
975 Hall	Stockholm	50000
976 Black	Anderson	4000
977 Griffith	Owner	4000
978 Jaymot	King	2000
979 Cardwell	Owner	3000
980 Netherby	Owner	7000
981 Empire	Windros	7000
982 Fox	Owner	2200
983 McElroy	Moore	2500

ALTERATIONS
(157) 3315 ADELIN ST., BERKELEY; alterations.
Owner—J. A. Pizzotti, 3252 Lakeshore.
Architect—None.
Contractor—J. Anderson, 874 34th St., Oakland. \$6000

RESIDENCE
(952) 1868 SAN JUAN AVE., BERKELEY; two-story 6-room 1-family frame residence.
Owner—Richard Vosbeck, 924 Hildale Ave., Berkeley.
Architect—T. Carlson, 1705 Curtis St., Berkeley. \$4000

DWELLING
(953) N PARKER AVE, bet. Beck & Garfield, OAKLAND; two-story 6-room dwelling.
Owner and Builder—Chas. J. Krattenmaker, 5665 Ayala Ave., Oakland.
Architect—None. \$3500

DWELLING
(954) W ROSS ST. 200 S Chabot Rd., OAKLAND; one-story six-room dwelling and 1-story garage.
Owner and Builder—Ernest W. Urech, 1924 50th Ave., Oakland.
Architect—W. W. Dixon, 1844 5th Ave. Oakland. \$6250

DWELLING

(955) S 52nd ST. 200 W Telegraph, **OAKLAND**; 1-story 5-room dwelling.
Owner and Builder—T. Rebol, 525 52nd St., Oakland.
Architect—None. \$5000

SERVICE STATION

(956) NW COR. MOSS and Piedmont, **OAKLAND**; one-story steel service station and steel canopy.
Owner and Builder—Standard Oil Co., Ray Bldg., Oakland.
Architect—None. \$1000 each

STORE

(957) SW COR. EIGHTH AVE. and E 24th St., **OAKLAND**; one-story store.
Owner and Builder—Edw. Larmer, 90 Fairview Ave., Oakland.
Architect—J. Watson. \$6000

DWELLING

(958) W UNDERHILLS ROAD 602 N Grosvenor, **OAKLAND**; two-story 6-room dwelling.
Owner—E. T. Leiter, 811 37th Street, Oakland.
Architect—None.
Contractor—E. T. Leiter & Son, 811 37th St., Oakland. \$6000

DWELLING

(959) W END OF MURDOCK 100 W 60th Ave., **OAKLAND**; one-story 5-room dwelling.
Owner and Builder—Wm. A. Allan, 509 Athol, Oakland.
Architect—W. W. Dixon, 1844 5th Ave., Oakland. \$3000

DWELLING

(960) W DAKOTA 340 E Laurel St., **OAKLAND**; 1-story 5-room dwelling and 1-story garage.
Owner—G. A. Roberts, 3458 Davis St.
Architect—None.
Contractor—J. A. McCord, Dublin, Cal. \$2100

RESIDENCE

(961) 433 VERMONT AVE., **BERKELEY**; two-story 8-room 1-family frame residence.
Owner—I. E. Wing, 2239 Summers St., Berkeley.
Architect—Armstrong and Gates, 947 Ordway St., Berkeley. \$7000

RESIDENCE

(962) 140 BRET HARTE RD., **BERKELEY**; one-story 4-room 1-family frame residence.
Owner—J. Mersereau, 1146 Cragmont Ave., Berkeley.
Architect—F. Reimers, Franklin Bldg., Oakland.
Contractor—H. K. Henderson, 20 Avis Road, Berkeley. \$3500

ALTERATIONS

(963) 2546 TELEGRAPH AVENUE, **BERKELEY**; alterations.
Owner—Dana Garfield.
Architect—None.
Contractor—J. P. Brennan, 2820 Regent St., Berkeley. \$2500

CREAMERY

(964) W SAN PABLO AVE 35 N Athens St., **OAKLAND**. Two-story brick creamery building.
Owner—Willow Brook Dairy, 19th & Telegraph Ave., Oakland.
Architect—Marshall & Diggs, Contractor—E. Campomenosi, 6401 Broadway, Terrace, Oakland. \$43,000

DWELLING

(965) TURNLEY AND SEQUOIA, **OAKLAND**. Two-story 6-room dwelling.
Owner—Allen & Allen, 1306, 107th Ave., Oakland.
Architect—None. \$8800

ALTERATIONS

(966) NO. 5906 FORTUNE WAY, **OAKLAND**. Alterations.
Owner—Harry C. Belleville, 2642 64th Ave., Oakland.
Architect—None.
Contractor—A. F. Dague. \$1000

DWELLING

(967) E ATLAS 150 S Redwood Rd., **OAKLAND**. One-story six-room dwelling.
Owner—Andrew Fleming, 3906 Vale Ave., Oakland.
Architect—None. \$3950

RESIDENCE

(968) 755 CRAGMONT AVE., **BERKELEY**; one-story 5-room 1-family frame residence.
Owner—H. Persons, 522 Colusa Ave., Berkeley.
Architect—W. H. Hooper, 721 Cragmont Ave., Berkeley. \$4000

STOREROOM

(969) 1225 SANTA FE AVE., **BERKELEY**; one-story frame store room.
Owner—Geo. Fosselli, 1207 Gilman St., Berkeley.
Architect—None.
Contractor—Chas. Marietti, 1201 Stannage Ave., Berkeley. \$1800

DWELLING

(970) 532 63rd STREET, **OAKLAND**; one-story 5-room dwelling and 1-story garage.
Owner—Clarence J. Dands, 2322 San Pablo Ave., Berkeley.
Architect—None.
Contractor—J. R. Langtry, 739 Alleen St., Oakland. \$4250

GREENHOUSE

(971) 359 105th AVE., **OAKLAND**; 1-story greenhouse.
Owner & Builder—K. Hiroo, 359 105th Ave., Oakland.
Architect—None. \$2000

DWELLING

(972) S PROSPECT 100 E Kenwyn, **OAKLAND**; 1-story 6-room dwelling.
Owner and Builder—Wm. Painter, Jr., 1344 St. Charles, Alameda.
Architect—None. \$6500

GREENHOUSE

(973) N KRUSE 400 W 73rd Avenue, **OAKLAND**; one-story greenhouse.
Owner—H. Hagashi & Co., 2311 73rd Ave., Oakland.
Architect—None.
Contractor—E. Hunter. \$1500

DWELLING

(974) S NEVIL 400 E 33th Avenue, **OAKLAND**; 1-story 6-room dwelling.
Owner & Builder—John Fleming, 4251 Suter St., Oakland.
Architect—None. \$3500

RESIDENCE

(975) NO. 67 KING AVE., **PIEDMONT**. Two-story 10-room frame residence and garage.
Owner—Mr. and Mrs. H. E. Hall, 75 Sea View Ave., Piedmont.
Architect—C. Tantau, Shreve Bldg., San Francisco.
Contractor—Chas. Stockholm, 1305 Russ Bldg., S. F. \$50,000

ALTERATIONS

(976) NO. 49 SIERRA AVE., **PIEDMONT**. Alterations.
Owner—B. W. Black, M. D., 10 Mesa Ave., Piedmont.
Architect—None.
Contractor—C. M. Anderson, 1853 9th Ave., Oakland. \$4000

DWELLING & GARAGE

(977) S BREED 160 W 107th Avenue, **OAKLAND**; two-story six-room dwelling and 1-story garage.

Owner & Builder—C. W. Griffith, 1427 87th Ave., Oakland.
Architect—None. \$4000

ALTERATIONS

(978) NO. 2035 PARKER ST., **BERKELEY**. Alterations.
Owner—Jack Jaymot, 2035 Carlton St., Berkeley.
Architect—None.
Contractor—Geo. F. King, 1341 Virginia St., Berkeley. \$2000

DWELLING

(979) NO. 2634-6 VIRGINIA ST., **BERKELEY**. Stucco duplex dwelling.
Owner—H. H. Cardwell, 2907 Ellsworth St., Berkeley.
Architect—None. \$3000

DWELLING

(980) N TRESTLE GLEN ROAD 200 S Sunnyhill Road, **OAKLAND**; 2-story 6-room dwelling.
Owner and Builder—W. A. Netherly, 3553 Lyman Road, Oakland.
Architect—None. \$7000

ALTERATIONS

(981) 1569 JACKSON ST., **OAKLAND**; alterations to hotel.
Owner—Empire Trading Corporation.
Architect—None.
Contractor—Geo. Windsor, 928 Kempton Ave., Oakland. \$7000

ADDITION

(982) 4009 HARDING WAY, **OAKLAND**; addition.
Owner and Builder—S. R. Fox.
Plans by Owner. \$2200

SHOP

(983) SW COR. FIFTH and Adeline, **OAKLAND**; one-story shop.
Owner—James J. McElroy, 226 Oakland Bank Bldg., Oakland.
Architect—None.
Contractor—The John Moore Co., 354 Hobart St., Oakland. \$2500

BUILDING CONTRACTS

Alameda County

137 Richardson	Burns	—
138 Kaiser	Schuler	3769
139 Lanza	Melrose	3050

HEATING SYSTEM

(137) 231 FOOTHILL BLVD., Oakland; Installation of hot water tank and heater and installation of complete heating system.
Owner—Hugh Richardson.
Architect—None.
Contractor—J. E. Burns, 3101 Maxwell St., Oakland.
Filed July 31, '30. Dated Oct. 8, '29
Heating system 1039
Hot water tank and heater 214
30 days after completion \$1253
TOTAL COST, \$1253

GRAVEL PLANT

(138) INTER SAN RAMON branch of the S. P. R. R. with the Western Pacific R. R. at Radium, near Livermore; general construction of a gravel washing, screening and loading plant.
Owner—Kaiser Paving Co., Latham Square Bldg., Oakland.
Architect—L. H. Nishkan, Underwood Bldg., San Francisco.
Contractor—Schuler & McDonald, Inc., 9th Ave. Pier, Oakland.
Filed Aug. 1, '30. Dated July 31, '30
25th and 20th of each month 75¢
Usual 35 days Balance
TOTAL COST, \$47,669
Bond, Performance, \$566 94; Labor and Materials, \$37,669 Surplus Commercial Casualty Ins. Co. Limit, 6 days Plans and Spec filed

STATION

(139) NW TELEGRAPH AVE AND Sixty-fifth St., Oakland. General construction for service station.

Owner—E. Lanza, 4722 West St., Oakland.

Architect—None.

Contractor—Melrose Steel Co., Inc., 1200 47th Ave., Oakland.

Filed Aug. 4, '30. Dated July 2, '30

Upon installation of pumps... 25%

Completion of building... 50%

Completion of job... 25%

TOTAL COST, \$3050

Bond, \$1525. Surety, National Surety Co. Limit, forfeit, plans and specifications, none.

OAKLAND BUILDING SUMMARY FOR JULY, 1930.

A. S. Holmes, chief building inspector of Oakland, reports the issuance of 335 permits during the month of July, 1930, for improvements involving an expenditure of \$469,903. Following is a segregated listing of the July activities:

Class. of Bldgs.	No.	P'mts	Cost
1-story dwellings	29		\$103,662
1-sty. 2-fam.	1		4,000
2-story dwellings	10		84,252
2-sty. 2-fam. "	1		3,750
1-story stores	4		7,540
1-story warehouse	1		400
1-story lockers	1		800
1-story office	15		4,795
1-story greenhouses	2		800
1-story tile ser. sta.	1		1,000
1-story tile store	1		1,500
1-story tile office	1		400
1-story tile garage	1		350
1-story brick garage	1		500
1-story brick shop	1		2,500
1-story brick ser. sta.	3		7,300
Brick addition	2		1,750
1-story brick and tile warehouse	1		1,850
1-story brick and tile ser. station	1		400
1-story brick and conc. warehouse	1		6,000
1-story " shop	1		800
1-story " garage	1		2,000
2-story " school	1		7,000
1-story steel ser. sta.	2		4,000
1-story steel shop	1		3,500
1-story steel com. sta.	4		2,600
Steel canopy	2		1,140
Concrete wharf	1		104,715
Conc. swimming pool	1		350
Billboards	8		825
Electric signs	51		14,185
Roof sign	1		500
1-story gar. and sheds	47		8,250
Additions	63		35,903
Alters. and repairs	76		50,592
Total	335		\$469,903

COMPLETION NOTICES

Alameda County

Recorded	Accepted
July 29, 1930—1020 STANNAGE AVE, Albany. Gaetana D Gaeta to Self	July 25, 1930
July 29, 1930—LOTS 7 and 8 BLK 6, Kellersberger's Map of Oakland, Oakland. Pacific Gas & Electric Co to Sullivan & Sullivan	July 21, 1930
July 30, 1930—LOTS 10, 11, 12, 14, 16 and Ptn of Lot 8, Blk 1, Daley's Scenic Park, Berkeley. Deaconess Training School of the Pacific to C H McCullough	July 28, 1930
July 28, 1930—CAMPUS OF UNIVERSITY OF California, Berkeley.	July 31, 1930

The Regents of the University of California to D N & E Walter & Co, July 19, 1930; A J Ruhlman & Co, July 19, 1930

July 29, 1930—SW TWELFTH AND Myrtle Sts., Oakland. Zion Evangelical Lutheran Church to J H Mosk

July 29, 1930—NO. 1233 WALNUT ST., Berkeley. Walter F and Ruby F Hundered to D C McKinney and Edward Shipe

July 29, 1930—NO. 3440 STORER AVE., Oakland. A L Bailey to whom it may concern

July 29, 1930—LOT 14 BLK 28, map No 8 of Regents Park, Albany. Sena Reinen to whom it may concern

August 1, 1930—1417-1417A GROVE ST., Berkeley. A H Gage to W E Lyons

July 31, 1930—NO. 3174 SEMINARY AVE., Oakland. W P Eaton to whom it may concern

July 31, 1930—NO. 726 CARMEL AVE., Albany. K C and Jeanne K Morrison to K C Morrison

July 31, 1930—NO. 2111 MCKINLEY ST., Berkeley. A W Sampson to whom it may concern

August 2, 1930—LOTS 10, 11, 12, 13, 14, 15 and W 20 ft lot 16, map of the Benton property, Berkeley. International House (a corp.) to In-laid Floor Company

July 31, 1930—LOTS 24 AND PTN LOTS 23 and 25 Blk 9, Berkeley Heights, Berkeley. O E Cush-nian to whom it may concern

August 4, 1930—LOT 23 AND PTN Lot 22, Ashley Tract, Oakland. Peter H Thaten to whom it may concern

August 4, 1930—LOTS 55 AND 56 and S 2 ft. Lot 54 Blk 14, Amended Map of Sunset Terrace, Albany. William K McInnes to whom it may concern

August 4, 1930—CAMPUS OF THE University of California, Berkeley. The Regents of the University of California to Van Fleet-Freear Co

August 4, 1930—LOT 8 AND PTN Lot 5 Blk 8, Plan of the Howe Tract, Oakland. A Jensen to whom it may concern

August 5, 1930—LOT 25, Map of Property of Capital Homestead Assn, Oakland. H E Buckland to whom it may concern

August 5, 1930—NO. 3416 MIRASOL AVE., Oakland. L O Brunt to W A Croll

August 5, 1930—LOT 97, Fernwood Tract, Oakland. Godfrey P Watkins to whom it may concern

August 4, 1930—SE BROADWAY & Thirtieth Sts., Oakland. Firestone Tire & Rubber Co to Harold L Paige

August 4, 1930—NO. 2220 E-31ST, Oakland. Mary Nelson Petty to whom it may concern

August 4, 1930—PTN LOTS 3 AND 4, Inez Tract, Oakland. Frank E and Charlotte F Stevenson to whom it may concern

August 1, 1930—243 ATHOL AVE, Oakland. Wm Richardson to Joe Daneri

August 2, 1930—LOT 19 BLK H, Claremont Pines Tract, Oakland. Charles R Brown to whom it may concern

August 2, 1930—PTN LOT 3 BLK 1, Highlands Manor, Oakland. Gertrude A York to Arthur Good

August 1, 1930—6070 OCEAN VIEW Drive, Oakland. George F Limbach to George Windsor

LIENS FILED

ALAMEDA COUNTY

Recorded	Amount
July 30, 1930—LOT F-79, map Fairway Estate, Oak Knolls. Hartman Electric Co, \$246.50; M & S Tile Co, \$397.50; M C Henry, \$93.80; General Plumbing Co, \$390.63; P Kwoyman, \$150; Pacific Gas Appliance Co, \$55; East Bay Glass Co, \$465, vs Mary Sulprizio and Henning Carlson	\$319.50
July 29, 1930—LOT H3 BLK 7, map of Key Route Terrace No 3, Berkeley. Redwood Mgrs Co vs H C Smith	\$319.50
July 31, 1930—LOTS 50 AND 51 BLK B, Fruitvale Villa Tract, Oakland. West Bros Roofing Co vs Louis and Mary Barone and Karl Engman	\$90
August 1, 1930—LOT F-79, Fairway Estates in Oak Knoll, Oakland. Blackman & Anderson vs Mary Sulprizio, Clifton E Davidson, Henning Carlson	\$78.78

RELEASE OF LIENS

ALAMEDA COUNTY

Recorded	Amount
July 29, 1930—NO. 538 WELDON AVE., Oakland. Frank O Kirby to Morris Underberger, Jane Doe Underberger and Jim Sparr	\$54.50
July 29, 1930—NO. 538 WELDON AVE., Oakland. P T Frenzen to Morris Underberger and Jim Sparr	\$125 each
July 29, 1930—W CLAY ST., bet. 12th and 13th Sts., Oakland. Liberty Ornamental Iron & Wire Works, Ltd., \$250; Frank Antonuccio, \$425 to Sun Ray Neon Corp of California, Ltd to Athens Athletic Club	\$110
July 29, 1930—NW TWELFTH AND Clay Sts., Oakland. T P Hogan Co to Athens Athletic Club and West Coast Neon Products Co	\$110
July 28, 1930—LOT 14 BLK 20, Melrose Heights, Oakland. Berkeley Bldg Materials Co to C R House	\$956.23
July 29, 1930—NA. 633 ALMA ST., Oakland. Bay City Asbestos Co, Inc to H Hofvendahl and Sommarstrom Bros	\$44.40
July 29, 1930—NO. 632 ALMA AVE., Oakland. H Golden to H Hofvendahl	\$120
August 1, 1930—S LINE CALAN-DRIA Ave at the line dividing lots 349 and 350, Unit C Oak Knoll, Oakland. M & S Tile Co to Tom King	\$296.50
August 2, 1930—6501 SIMSON AVE., Oakland. R S Clark to Elwood Graves	\$68.75

JULY BUILDING PERMITS

(San Anselmo, Calif.)

Following building permits were issued during the month of July by C. H. Cartwright, building inspector of San Anselmo, Marin County:

W. F. Krelle. Dwelling. Lot 1 Block 5, Sequola Park, Section 1, Cottage Ave. Est. cost \$1000.

J. F. McPherson. Addition. Lot C Elm Court, Scenic Ave. Est. cost \$250.

H. J. Kemp. Dwelling and garage. Lot 27 Hampton Court. Est. cost \$3,500.

Dowell Inv. Co. Dwelling and garage. Lot 34 Linda Vista Tract. Est. cost \$2500.

E. W. Ruhl. Dwelling. Lot 15 Blk 7, Morningside Drive. Est. cost \$3000.

Walter Mayer. Dwelling. Lot 4, Sub. 2 Morningside Court. Est. cost \$3000.

Walter Mayer. A Dwelling and garage. Lot 5, Sub. 2 Morningside Court. Est. cost \$3000.

Slemmer & Kendall. Repair fire damage. Lots 24 and 25 Yolanda Court. Est. cost \$1000.
 Selmer & Kendall. Dwelling. Rosenthal Tract, Oak Ave. Est. cost \$9,000.
 Slemmer & Kendall. Dwelling. East half lot 1, block 2, Idalia Park. Est. cost \$3000.
 Peter Cassassa. Repairs. Sub. Lots 92 and 93 Bush Tract, Elm Ave. Est. cost \$250.
 J. Barozzi. Dwelling. Sub. Lots 92 and 93 Bush Tract, Elm Ave. Est. cost \$500.
 J. Fortina. Garage. Lot 10 Blk 1 Sunnyside Tract, Woodland Ave. Est. cost, \$150.
 F. Fisher. Dwelling. Lot 395 Short Ranch Tract, S. F. Blvd. Est. cost, \$3000.
 A. E. Musante. Alterations and repairs. Lot 69, San Rafael Heights. Est. cost \$250.
 R. E. Lapham. Dwelling and garage. Morningside Court Lot 20, Blk 4. Est. cost \$4000.

BUILDING CONTRACTS

SAN MATEO COUNTY

BUILDING
 E SAN PEDRO AVE., Colma. All work for two-story frame building. Owner—Colombo Benevolent Society, Colma.
 Architect — Louis Mastropasqua, 580 Washington St., San Francisco.
 Contractor—G. Cristina et al.
 Filed July 28, '30. Dated July 21, '30.
 Roof on \$3150
 Brown coated 3150
 Completed 3150
 Usual 35 days 3150
TOTAL COST, \$12,600
 Bond, \$6300. Sureties, V. Boide and E. Sevinl. Limit, 90 working days. Forfeit, none. Plans and specifications filed.

RESIDENCE
 LOT 5 BLK 14, Baywood. All work for one-story and basement frame and stucco residence.
 Owner—D. Houle.
 Architect—None.
 Contractor—William Kappeler.
 Filed July 30, '30. Dated July 29, '30.
 Frame up \$1912.50
 Brown coated 1912.50
 When completed 1912.50
 Usual 35 days 1912.50
TOTAL COST, \$7650.00
 Bond, \$3825. Sureties, Joseph L. and Arnold Kappeler. Limit, Oct. 29, 1930. Forfeit, none. Plans and specifications filed.

BUILDING PERMITS

SAN MATEO

RESIDENCE, \$5000; Lot 6 Blk 10, 903 9th Ave.; owner and builder, John H. Clifford, 1010 S Humboldt St., San Mateo.
GAS supply station, brick \$10,000; Lots 5 and 6 Blk 2 El Camino; owner and builder, The Texas Co., 1731 Fir St., San Mateo.
HOSPITAL, Community, \$82,742; Harrison Ave.; owner, San Mateo Co.; contractor, Sorensen & Haggmark 2612 Harrison St., San Francisco.

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded	Accepted
July 31, 1930—LOT 8 BLK 11, Milbrae Villa Tract, San Mateo.	
Diedrich Borchers to whom it may concern.....	July 29, 1930
August 1, 1930—PART LOT 12 BLK 32, San Carlos. Clinton R Sison	

to whom it may concern.....	July 31, 1930
August 2, 1930—LOT 17 BLK 306, Highlands of Emerald Lake, San Mateo. Story & Dolphin to whom it may concern.....	July 31, 1930
August 2, 1930—LOCATION NOT Given. Martin J Stelling Jr et al to Young & Horstmeier.....	July 25, 1930
August 2, 1930—LOT 8 BLK 14, Stanford Park, San Mateo. Fred K Ingram to Aro & Ockerman.....	July 31, 1930
July 26, 1930—LOTS 64 AND 61 BLK 23, White Oaks. Koff Realty Co to C S Barker.....	July 23, 1930
July 26, 1930—LOT 8 BLK 3, Jefferson Park, San Mateo. Castle Bldg Co to Henry Horn.....	June 18, 1930
July 26, 1930—LOT 16 BLK 2, Jefferson Park, San Mateo. Castle Bldg Co to Henry Horn.....	July 19, '30
July 28, 1930—LOT 32, Sky and Onda. Henry Van Ness et al to Henry C Yates.....	July 22, 1930
July 29, 1930—LOT 5 BLK 18, Baywood. Lengfeld & Olund to whom it may concern.....	July 28, 1930
July 29, 1930—LOT 11 BLK 15, Baywood. Lengfeld & Olund to whom it may concern.....	July 28, 1930
July 29, 1930—LOT 25 BLK 4, Baywood. N W Schneider et al to whom it may concern.....	July 23, 1930
July 30, 1930—LOT 14 BLK 9, Ruesta La Honda. Samuel H Skaffield to Melvin O Stone.....	July 25, 1930
July 30, 1930—LOT 16 BLK 24, Wisconsin Sub, Burlingame. D Haul to whom it may concern.....	July 30, 1930
July 30, 1930—LOT 70, Peninsula Manor. Joseph Girando to E D Soward.....	July 28, 1930
July 30, 1930—LOTS 33 AND 34 Blk 8, Central Park, San Mateo. Sig J Olafsson to whom it may concern.....	July 29, 1930
July 31, 1930—LOT 22 BLK 117, South San Francisco. D W Ratto to Antonio Pianca.....	July 23, 1930
July 31, 1930—LOTS 6 AND 7 BLK 16, Central Park, San Mateo. Eric Strandquist to whom it may concern.....	July 31, 1930
July 31, 1930—PART LOT 4, Roosevelt Oaks. A A Wesendunk Jr to Whom it may concern.....	July 30, 1930
July 31, 1930—LOT 22, Linda Vista Tract, San Mateo. M Brodowsky to whom it may concern.....	July 1, 1930

LIENS FILED

SAN MATEO COUNTY

Recorded	Amount
August 1, 1930—LOTS 8 AND 9 BLK 3, Central Park, San Mateo. Concord Patent Window Co vs Carrie R Driver.....	\$147.55
August 1, 1930—LOTS 4 AND 5 Blk 14, Central Park, San Mateo.	

Concord Patent Window Co vs Arthur B Newman et al.....	\$122.50
July 26, 1930—PART LOT 214, San Mateo City Homestead. Martin Kasser, \$120; V Fillipo & Son, \$95 vs Edward Davis et al.....	
July 26, 1930—PART LOT 314, San Mateo Homestead Assn. Van Ripper Williams & Co vs Edward Davis.....	\$201.20
July 28, 1930—LOT 66, Peninsula Manor. H E Casey Co vs Louis Gulisti et al.....	\$150.65
July 28, 1930—LOT 3 BLK 10, Edgewood. Progress Lumber Co vs C F Magne.....	\$747.60

RELEASE OF LIENS

SAN MATEO COUNTY

Recorded	Amount
July 29, 1930—LOT 1, PART LOT 2, James St. Addition, San Mateo. A F Ducret to whom it may concern.....	

BUILDING CONTRACTS

SANTA CLARA COUNTY

BUILDING
 ON OR NEAR CAMPUS OF LELAND Stanford Jr University, Palo Alto. All work for one-story frame building with concrete basement. Owner — The Stanford University (Board of Athletic Control), Palo Alto.
 Architect — John Bakewell Jr. and Arthur Brown Jr., 251 Kearny St., San Francisco.
 Contractor—Wells P. Goodenough, 310 University Ave., Palo Alto.
 Filed July 30, '30. Dated July 25, '30.
 Payments not given.....
TOTAL COST, \$32,164
 Bond, none. Limit, on or before 100 working days. Forfeit, none. Plans and specifications filed.

ALTERATIONS
 WEST SANTA CLARA ST. next to Farmers' Union Building, San Jose. General contract for alterations and additions to three-story building.
 Owner—Louise Masson and Marie Le Franc, San Jose.
 Architect—W. H. Weeks, 111 Sutter St., San Francisco.
 Contractor—The Minton Co., Mt. View
 Filed July 30, '30. Dated July 19, '30.
 As work progresses..... 75%
 Usual 35 days..... 25%
TOTAL COST, \$54,174
 Bond, none. Limit, 100 days from July 19, 1930. Forfeit, none. Plans and specifications filed.

ELECTRICAL WORK ON ABOVE.
 Contractor—C. E. Hershey and G. V. Metzger (as Gullbert Bros. Electric Co.), San Jose.
 Filed July 30, '30. Dated July 19, '30.
 Payments same as above.....
TOTAL COST, \$1991
 Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed

Member Insurance Brokers' Exchange

FRED H. BOGGS
INSURANCE
 490 GEARY STREET

Phone FRanklin 9400

San Francisco

INSTALLING ELECTRIC PASSENGER elevator on above.
Contractor—Spencer Elevator Co., 166 Seventh St., San Francisco.
Filed July 30, '30. Dated July 21, '30.
Payments same as above.
TOTAL COST, \$2800
Bond, limit, forfeit, none. Plans and specifications filed.

BUILDING PERMITS

BURLINGAME

GOLF Course, miniature, \$1000; Lot 15 Blk 14 Broadway; owner, A. J. Witherspoon, 1363 De Soto Ave., Burlingame; contractor, Milton Finlof, 1743 Ivy St., San Mateo.
ALTERATIONS, \$1200; 1458 Cabrillo Ave.; owner and builder, Moses Little, 1270 Drake Ave., Burlingame.
ALTERATIONS, \$1000; 753 Acacia; owner, B. S. Shendler; contractor, C. B. McClair, 1412 Edgchill, Burlingame.
BUNGALOW, \$5000; Lot 21 Blk 9, Acacia; owner, V. Leontief, 1051 Park Ave., Burlingame; contractor, B. Norberg, 832 Morrell, Burlingame.

BUILDING PERMITS

REDWOOD CITY

DWELLING, 4-room, \$1000 No. 102 Poplar Ave., Redwood City. owner & contractor, Edw. F. Greehy.
DWELLING, 6-room, bath and garage frame, \$5000; No. 519 Iris St., Redwood City; owner, and contractor, L. Bourquin, 211 Bradford St., Redwood City.
APARTMENTS (3) and garage, \$8000 No. 2 Arch St., Redwood City; owner, Mrs. G. Van Osten; contractor, W. L. Heald.
APARTMENTS, 3-story and basement, concrete and frame, \$85,000; No. 1 Duane St., Redwood City; owner, M. E. Ryan, 231 Main St., Redwood City; contractor, Russell & Duncan, Premises.
ADD to dwelling, \$1600; No. 33 Claremont St., Redwood City; owner, F. H. Barton; contractor, Harry Arnold, 232 Finger Ave., Redwood City.
DWELLING, frame, 4-room, bath and garage, \$2000; No. 1437 Roosevelt Ave., Redwood; owner and contractor, L. J. Clements.

BUILDING PERMITS

PALO ALTO

RESIDENCE, frames and stucco, \$6000; No. 2325 Emerson St., Palo Alto; owner, A. W. Hoy, 1557 Waverly St., Palo Alto.
CLUBHOUSE, \$2000; No. 731 El Camino Real, Palo Alto. Dr. J. Vance Matteson, 200 Santa Margarita Ave., San Rafael.

BUILDING PERMITS

SAN JOSE

ALTER brick business building, \$5000; No. 32 Fountain St., San Jose; owner, Mercury-Herald, 30 W-Santa Clara St., San Jose; contractor, Benj. Quimet, 655 Riverside St., San Jose.
RESIDENCE, 6-room, frame, \$5000; Almaden St. near Willow St., San Jose; owner, S. Plazzi, 1022 Almaden St., San Jose; contractor, P. D. McCormick, 430 N-Fifth St., San Jose.
RESIDENCE, 5-room, frame, \$5750; Shasta St. near Park St., San Jose; owner and contractor, Rolle

Williams, 1518 Shasta St., San Jose.
RESIDENCE, 2-story 7-room, frame, \$8000; 13th and Reed Sts., San Jose; owner, Walter M. Stevens, Rt. 4, Box 125, R. F. D., San Jose; contractor, S. Steindell 38 Northampton Ave., Berkeley.

BUILDING PERMITS

STOCKTON

RESIDENCE and garage, \$5000; No. 645 West Walnut St., Stockton; owner, Anton Larson, Premises.
REMODEL building, \$1350; No. 720 E-Charter Way, Stockton. W. S. Sheets, Nu-Way Cleaners; contractor, Frank P. Guyon, 1211 E. Main St., Stockton.
REMODEL building, \$2700; No. 148 E-Miner Ave., Stockton; owner, Associated Oil Co., 148 E-Miner Ave., Stockton; contractor, J. A. Allen, 525 E-Market St., Stockton.

BUILDING PERMITS

MARTINEZ

DWELLING, 2-story, 5-room frame and stucco, \$5500; Grand View Ave.; owner and builder, George Huffman, Martinez; architect, F. Slocumbe, 337 17th St., Oakland.
SCHOOL, music, and shops, 1-story concrete, \$21,347; Alhambra and C Streets; owner, Alhambra School Dist., Martinez; architect, W. H. Weeks, 111 Sutter St., San Francisco; contractor, Wallace Snellgrove, Alhambra Ave., Martinez.
DWELLING, 1-story 5-room brick veneer, \$3500; East Main St.; owner and builder, Johnson & Price, Martinez.
DWELLING, 1-story 5-room stucco, \$5500; Willow and Ward Streets; owner, Mrs. A. McNamara, 1134 Main St., Martinez; designer, G. Bitcon, E Main St., Martinez; contractor, same.
STORE, 1-story brick, \$7000; Ward & Alhambra; owner, J. C. Penney Co. 524 Main St., Martinez; plans by builder; contractor, Wallace Snellgrove, Martinez.

BUILDING CONTRACTS

MONTEREY COUNTY

HEATING SYSTEM
KING CITY. All work for steam-heating system for new Fine Arts building and new boiler room.
Owner—King City Union High School, King City.
Architect—H. B. Douglas, Greenfield.
Contractor—San Jose Heating & Ventilating Co., San Jose.
Filed August 1, '30. Dated July 30, '30
On 1st of each month..... 75%
Usual 35 days..... Balance
TOTAL COST, \$6286
Bond, limit, forfeit, none. Plans and specifications filed.

ADDITIONS
PACIFIC GROVE All work for addition to present high school.
Owner—Pacific Grove High School District.
Architect—W. H. Weeks, 111 Sutter St., San Francisco.
Contractor—J. J. Groden Co., 1028 San Antonio Ave., Alameda.
Filed Aug. 2, '30. Dated July 29, '30.
As work progresses..... 75%
Usual 35 days..... 25%
TOTAL COST, \$55,610
Bond, none. Limit, 110 working days.
Forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

SANTA CLARA COUNTY

Recorded	Accepted
July 26, 1930—W 8 FT. LOT 9 and E 31 ft. Lot 10 Blk 4, Mt. View Park, Ernest E Brindos to whom it may concern.....	July 25, 1930
July 28, 1930—LOT 5 BLK 1, Cherry Park, San Jose. W A Sanders to whom it may concern.....	July 21, 1930
July 28, 1930—LOT 38 BLK 2, John R Chace Garden Villa Lots, San Jose. Harold G Wick et al to whom it may concern.....	July 25, 1930
July 28, 1930—LOT 31 BLK 1, Lincoln Gates, San Jose. Frank T Lannin to whom it may concern.....	July 25, 1930
July 29, 1930—NW LENDRUM AND SW McCreery, San Jose. Cedodie Brancato to whom it may concern.....	July 28, 1930
July 29, 1930—E STOCKTON AVE 100 SE Julian St., San Jose. Ethel D Parkhurst to whom it may concern.....	July 29, 1930
July 29, 1930—NW 56 FT. LOTS 12 to 15 Blk 21, Vendome Park No. 4, San Jose. R C Washburn to whom it may concern.....	July 28, 1930
July 29, 1930—LOT 205, Cottage Grove Tract, San Jose. Salvatore Marfia et al to whom it may concern.....	July 29, 1930
July 29, 1930—LOT 91, Studio Heights, San Jose. J A Wagner to whom it may concern.....	July 30, 1930
July 29, 1930—LOT 12, Ramona Court, San Jose. Charles H Smith to whom it may concern.....	July 25, 1930
July 31, 1930—LOT 48, Washington Subd, San Jose. T J Russo et al to whom it may concern.....	July 30, 1930

LIENS FILED

SANTA CLARA COUNTY

Recorded	Amount
July 26, 1930—LAUREL WOOD Farm Subdivision with exceptions San Jose. H M Keister vs Metropolitan Realty Co.....	\$730.15

RELEASE OF LIENS

SANTA CLARA COUNTY

Recorded	Amount
July 31, 1930—NW SANTA CLARA and San Pedro Sts., San Jose. Coast Electric Service; Concrete Engineering Co, Inc; Wigren Lawrence Glass Co and M Greenbergs Sons to Farmers Union.....	

COMPLETION NOTICES

MONTEREY COUNTY

Recorded	Accepted
August 2, 1930—PARCEL OF LAND being on SE Side of California St., Salinas. Phyllis Spiegl to F T Wallstrum.....	July 31, 1930
Aug. 2, 1930—LOTS 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 and 12 Blk 38, Withers Addition to Monterey. J C Anthony to whom it may concern.....	July 31, 1930
Aug. 2, 1930—LOTS 1, 2 AND 6 Blk 4, Map of Johnson's Addition to City of Monterey. Wayne Edwards to Wayne Edwards.....	August 1, 1930
August 5, 1930—LOT 5 BLK 45 Map of Town of Castrovilla. Albert L and Beatrice Dutra to L Frates.....	July 30, 1930
July 30, 1930—N 62 1/2 FT. LOT 14	

Blk 157, Fifth Addition to Pacific Grove Retreat. Leonard Le Rose to whom it may concern July 29, '30 August 1, 1930—S 39.93 FT. LOT 23 Blk 10, Mp of Homestead Addn to Salinas City. Herbert E Arnold to whom it may concern

..... July 31, 1930 August 1, 1930—LOT 6 BLK 19 Map of Rilers & Jackson Survey forming part of Salinas City. J E Stearns to whom it may concern

..... July 31, 1930 August 1, 1930—NW KATHERINE and Pajaro Sts., Salinas. J H Graham to whom it may concern

LIENS FILED

MONTEREY COUNTY

Recorded Amount
July 30, 1930—LOTS 16 AND 17 Blk 9, Map No. 2, Del Monte Heights, Monterey. Edward E Farrar to Oliver B and Stella E Olsen \$148.85

July 30, 1930—LOTS 16 AND 17 BLK 9, Map No. 2, Del Monte Heights Lakeside Tract, Monterey. May L Chase, \$382.82; G E Halsted and E P Newman, \$287.97; Homer T Hayward Lumber Co, \$69.20 vs Oliver B and Stella E Olsen.....

August 1, 1930—PTN LOT 8 BLK 32, Shown on Block Book of City of Monterey. Roy M Wright vs Orazio and Katherine Crivello also written Caterina Crivello and Albert Gatti \$134.50

COMPLETION NOTICES

MARIN COUNTY

Recorded Amount
July 28, 1930—SAN ANSELMO. Elmer Reed to whom it may concern..... July 28, 1930

July 29, 1930—KENTFIELD. Ben Johnson to whom it may concern

..... July 29, 1930 July 30, 1930—FAIRFAX. Ivan J Carlier to whom it may concern.....

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded Accepted
August 4, 1930—LOTS 9 and 10 BLK 125, Amended City of Richmond. E Schapiro to whom it may concern..... July 30, 1930

August 1, 1930—PTN LOTS 235-B and 235-C, Berkeley Country Club Terrace No 1. Earl E Hershey to whom it may concern..... July 26, 1930

July 29, 1930—LOTS 19, 20, 21 AND 22 Blk 1, Nichol Macdonald Ave Circle Center, Richmond. Burg Bros to B L Spurr..... July 28, 1930

July 30, 1930 — PORT COSTA Wharf. Associated Oil Co to Healey-Tibbitts Constr Co (repair damage)..... July 26, 1930

LIENS FILED

CONTRA COSTA COUNTY

Recorded Amount
August 4, 1930—LOTS 6, 7, 8, 9 in Blk 1, Subdiv of Blk 1W, Rodeo. F A and C V Mero, co-partners as Master-Craft Tile & Roofing Co vs M S Serpa and Antonio Silva.....

..... \$131.70 August 1, 1930—LOT 6 BLK 43 Original Survey, Martinez. Diamond Match Co vs Rudolph Johnson and Elsworth Springsteen \$404.15

August 1, 1930—NORTH HALF LOTS 7 and 8 Blk 77, Original Survey,

Martinez. A and Alturo Pistochnil as Alhambra Electric Shop and John De Silva Jr vs Serafina Gabbellini \$55
August — 1930—LOTS 1 & 2 BLK 52, Original Survey of Town of Martinez. J C Brockhurst (as Brockhurst Tile Co) vs Ralph DeSanno, Josephine Schweinlitzer and Karl Hekel \$91.80
July 30, 1930—LOTS 6, 9, 12, 13, 14, 15, 18, 19, 20, 26, 29, 33 and 34 Blk 24, Walls Harbor Center Trct. C M Goodell vs H Othoudt \$50

RELEASE OF LIENS

CONTRA COSTA COUNTY

Recorded Amount
July 29, 1930—LOT 10 BLK 29, City of Pittsburg. Hutchinson Co, Inc to Frank Fassett, Bertha Howard and Willette Martin

COMPLETION NOTICES

SONOMA COUNTY

Recorded Accepted
July 31, 1930—PTN LOT 508, Former Pueblo of Sonoma. Gino and Cino Pardini to F Francesconi & Co..... July 30, 1930

RELEASE OF LIENS

SONOMA COUNTY

Recorded Amount
July 30, 1930—LOT 5 BLK 2, Picetti Terrace, Sonoma City. L P Kearney (El Verano Lumber Yard), \$65; \$478.80; \$357.46 and L A Drake, \$230.26 to Charles L Donovan

July 30, 1930—S NAPA ST. bet. 4th and 5th Sts., East of Broadway, Sonoma City. J S Courreges (as Courreges Co) to Chas L Donovan \$164.80

July 31, 1930—LOT 5 BLK 2, Picetti Terrace, Sonoma City. Dickinson Bldg Material Co to Charles L Donovan and E Rhode (2 releases) \$249.93 each

LIENS FILED

SAN JOAQUIN COUNTY

Recorded Amount
August 4, 1930—LOTS 9 AND 10, Lincoln Manor Sbdvn, Stockton. L H Cornelius vs Frank W Page \$412

BUILDING CONTRACTS

SACRAMENTO COUNTY

BUILDINGS

S 75 FEET OF N 85 FEET LOT 1917 W. & K. Tract No. 24, Sacramento All work for buildings.

Owner—Chas. H. and Bertha H. Carter, 1373 42nd St., Sacramento.

Architect—None
Contractor—N. H. Lund, 3300 Cutter St., Sacramento.

Filed —, Dated —, TOTAL COST, \$12,315

BUILDING PERMITS

SACRAMENTO

RESIDENCE, 5-room, \$1600; No. 4751 Seventh Ave., Sacramento; owner and contractor, Joseph Pedone, 914 S St., Sacramento.

TENT and awning works, \$9800; No. 2300 Y St., Sacramento; owner, H. W. Rivett Co, 1301 J St., Sacra-

ramento; contractor, J Hopkin-son, 1810 28th St., Sacramento.
RESIDENCE, 5-room, \$4500; No. 2264 Tenth Ave., Sacramento; owner, C C Italy, 4800 T St., Sacramento.

SERVICE station, \$18,771, 1201 J St. and 917-19-21 12th St., owner, F. S. Co., contractor, Campbell Const Co., 800 E St., Sacramento.

RESIDENCE, 6-room, \$4000; No. 2137 Seventh Ave., Sacramento; owner, Geo. E. Hooper, 2147 7th Ave., Sacramento; contractor, Frank Richards, Hagginwood.

RESIDENCE, 7-room, \$7000; No. 3901 T St., Sacramento; owner, H. M. Dunkel, 420 Santa Ynez Way, Sacramento.

ADDITION, \$3000; No. 1108 28th St., Sacramento; owner, Anchor Bakery Co, Premises; contractor, F. W. Holdener, 2608 H St., Sacramento.

GENERAL repairs, \$4500; No. 401-403 J St., Sacramento; owner, Wright & Kimbraugh, Premises.

COMPLETION NOTICES

SACRAMENTO COUNTY

Recorded Accepted
August 2, 1930—LOT 80, Harding Pl., Sacramento. Evan L and Beatrice Wilson to whom it may concern..... July 31, 1930

August 2, 1930—LOT 8 BLK A Highland Park Addn, Sacramento. J Guglielmetti and Dea, ux to whom it may concern..... July 31, 1930

July 31, 1930—LOT 85 Harding Place, Sacramento. H M Dunkel and Gertrude W ux to whom it may concern..... July 29, 1930

Aug. 1, 1930—LOT 7, W. & K Trct No. 34, Sacramento. Julia M Bergh to whom it may concern..... July 31, 1930

LIENS FILED

SACRAMENTO COUNTY

Recorded Amount
July 30, 1930—LOT 41, W & K Tract 34, No. 4930 H St., Sacramento. Dolan Bldg Material Co vs Geo H Bergh J Summer Powers, Virginia Yolo Powers and Manuel Valine \$13.69

BUILDING PERMITS

FRESNO

DWELLING, \$2400; 1630 Hazelwood Blvd.; owner, Geo. Farmer; contractor, W. D. MacKrell.

STORE, \$2000; 1246 F St.; owner, M. S. Schlena.

DWELLING, \$1600; No. 2152 Railroad Ave., Fresno; owner, S. Joseph; contractor, Geo. Christian.

COMPLETION NOTICES

FRESNO COUNTY

Recorded Accepted
August 1, 1930—LOT 1, East Elm-hurst A M Chitty to whom it may concern..... July 31, 1930

August 2, 1930—LOTS 23, and 24 Blk 12, Roeding Addn, Fresno. Donald G and Esther H Hopkins to Taylor-Wheeler, Inc. July 24, 1930

August 2, 1930—PT BLK 1, Malaga. Dept of Public Works, Division of Highways, State of California to whom it may concern July 23, 1930

August 2, 1930—LOTS 1 and 2 BLK 2, Wyatt Tract, Fresno. S A Connor to Malsler Bros Lumber Co. July 25, 1930

July 31, 1930—LOT 11 BLK 1, St Francis Wood, Fresno Taylor-

Wheeler, Inc. to whom it may concern July 29, 1930
 July 31, 1930—LOTS 1 AND 2 BLK D, Lamona Land Tract, Fresno.
 Georgina King to Ernest Russell July 26, 1930

COMPLETION NOTICES

FRESNO COUNTY

Recorded Accepted
 July 29, 1930—E AND INYO STS., Fresno, Danish Creamery Assn to Thos Paulson July 25, 1930

OFFICIAL PROPOSALS

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received by the Department of Public Works, Division of Highways, at the office of the District Engineer, District III, Room 502, State Office Building, Sacramento, California, until 2 P. M., on Wednesday, August 13, 1930, at which time they will be publicly opened and read, for performing work as follows:

El Dorado County, between Fresh Pond and $\frac{3}{4}$ mile East of Riverton, (III-E.D.-XI-F.G.), a distance of about six and two-tenths (6.2) miles, bituminous surface treatment to be applied.

Plans may be seen, and forms of proposal, bonds contract and specification may be obtained at the above address.

No bid will be received unless it is made on a proposal form furnished by the District Engineer. Each bid must be accompanied by cash or a certified or cashier's check made payable to the Director of public Works for an amount equal to at least ten (10) per cent of the amount bid, such guaranty to be forfeited should the bidder to whom the contract is awarded fail to enter into the contract.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

C. H. PURCELL,

State Highway Engineer.

By C. H. WHITMORE,

District Engineer, Dist. III

Dated: August 2, 1930.

August 6, 1930

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received by the Department of Public Works, Division of Highways, at the office of the District Engineer, 502 State Office Building, Sacramento, California, until 2 o'clock P. M. on August 20, 1930, at which time they will be publicly opened and read, for performing work as follows:

Placer County, through Lincoln and 0.3 mile northerly (III Pla-3-A.B.), about one and one-tenth (1.1) mile, constructing property fence.

Plans may be seen, and forms of proposal, bonds, contract and specifications may be obtained at the above address.

No bid will be received unless it is made on a proposal form furnished by the District Engineer. Each bid must

be accompanied by cash, or a certified check made payable to the Director of Public Works, for an amount equal to ten (10) per cent of the amount bid, such guaranty to be forfeited should the bidder to whom the contract is awarded fail to enter into the contract.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

C. H. PURCELL,

State Highway Engineer.

By C. H. WHITMORE,

District Engineer, Dist. III.

Dated: August 4, 1930.

(August 11-12-13-14-15-16-18)

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received by the Department of Public Works, Division of Highways, at the office of the District Engineer, Room 502, State Office Building, Sacramento, California, at 2:00 o'clock P. M., on Monday, August 18, 1930, at which time they will be publicly opened and read, for performing work as follows:

Sacramento County, between Twin Cities School and one-half mile northeast of Herald, (Road X-Sac-34-B), about four and six-tenths (4.6) miles in length, crushed gravel or stone borders with a bituminous surface treatment to be constructed three feet (3') wide on both sides of the existing pavement.

Plans may be seen, and forms of proposal, bonds, contract and specifications may be obtained at the above address.

No bid will be received unless it is made on a proposal form furnished

by the District Engineer. Each bid must be accompanied by cash, or a certified check made payable to the Director of Public Works, for an amount equal to ten (10) per cent of the amount bid, such guaranty to be forfeited should the bidder to whom the contract is awarded fail to enter into the contract.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

C. H. PURCELL,

State Highway Engineer.

By R. E. PIERCE,

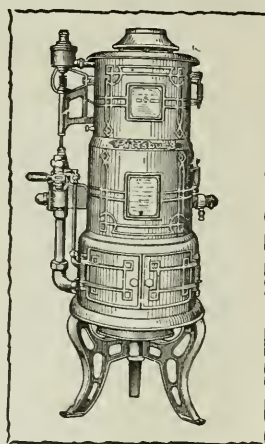
District Engineer, Dist. X

Dated: August 5, 1930.

The revised simplified practice recommendation No. 72—Solid Section Steel Windows may now be considered as in effect, according to a recent announcement made by the Division of Simplified Practice of the Bureau of Standards, Department of Commerce. This statement was prompted by the Division's receipt of a sufficient number of signed acceptances from manufacturers, distributors and users of Steel Windows to insure the general adoption of the program by the industry as a whole. The most important changes made in this revised program are the substitution of nomenclature of commodity products in lieu of dealer stock; the addition of several sizes in both the pivoted and projected window groupings, and changes of types and eliminations in projected architectural windows.

TIMBER SURVEY MADE

A photographic survey by airplane of 200 square miles of timbered territory near Susanville, conducted by the United States forest service as a fire prevention measure, has been completed. The pictures will be utilized in determining fire protection methods, advisable location of trails and other topographical data essential to forest conservation.



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SAN FRANCISCO, CALIF., AUGUST 16, 1930

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Thirtieth Year — No 33



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Jurisdictional Strikes In Building Trades Are Eliminated by Agreement

Elimination of jurisdictional labor disputes among building trade unions is believed to have been accomplished by the establishment of a national board of claims to dispose of such disputes, at a meeting of the executive committee of the National Association of Building Trade Employers and the building trades division of the American Federation of Labor held in Atlantic City on July 31, says Engineering News-Record. The agreement to establish such a board was signed immediately by officials of the builders' association and is expected to be signed by the trades group at the October meeting of the American Federation of Labor in Boston.

By the terms of the agreement, the national board will hear petitions of only international unions. Local and sectional fights will be decided by the international unions, although they may turn them over to the board of claims.

In a dispute between two or more international unions the board may decide the matter or may refer it to arbitrators. In the latter case each union is to appoint an arbitrator, these two to agree upon an umpire. If an umpire cannot be agreed upon, one is to be appointed by the board from three names submitted by the unions. In the case of arbitration the findings will be turned over to the board of claims, which will make effective the decision.

If a union fails to comply with the board's decision, the trades division of the American Federation of Labor is to decide upon a penalty. Where the failure to comply involves an employer, the penalty is to be decided upon by the National Association of Building Trade Employers.

Strikes are absolutely forbidden in the agreement.

PUBLIC IS WARNED AGAINST UNLICENSED ENGINEER

The public has lost thousands of dollars through employment of unqualified and unlicensed engineers, says A. B. Carter, secretary of the Oregon State Board of Engineering Examiners. He warns the public to make certain whether any engineer they consider employing is a registered engineer under the provisions of the state law.

Carter mentioned two cases where prosecutions are being conducted against unlicensed engineers, in one of which cases the claim is for \$60,000 for damage caused by inefficient engineering work, and in another where a school building collapsed after it had been built without supervision of a registered engineer or architect.

SIXTY-NINE BRICK PLANTS NOT OPERATING

"Although there are some hopeful signs in the general business of the country, the construction industry has not yet been affected," says the monthly digest of the Common Brick Manufacturers Association.

"When there is a flood, it is most encouraging to have it stop raining, although the high water and destruction may continue for some time after. It perhaps has stopped raining as far as the destructive tide in business is concerned, but many industries are still under water. The construction industry is perhaps in the deepest valley of all."

"The one encouraging indication from the current reports of brick manufacturers is that the depression is not quite as general as it was. In a few spots there is actually a pick-up in construction. An analysis, however, shows that the influences are largely local, and the so-called 'turn in the road,' so far as construction is concerned, probably has not been reached."

"There is a high volume of government work under way and this is wide-spread. Nearly all the states are getting some portion of the improvements paid for by Federal money."

"Unemployment in the brick industry is at the highest point it has been in since 1918, when many plants were closed as a war measure. Out of 208 plants reporting from the current tabulation, 69 are not operating. There are brick plants in the country which have not turned a wheel in more than a year and some of these still have brick on hand."

"The old law of supply and demand is having its effect upon the price of brick and in some sections there is destructive warfare between the manufacturers."

"Building materials in general are lower in cost than they have been for 7 or 8 years and unquestionably this is a more favorable time to build than the country will witness for some time to come."

"The stocks of brick on hand are larger than they have been in recent years. The 208 concerns reporting have more than 600,000,000 brick, both burned and unburned, in the sheds on July 1st."

HIGHWAYS IMPROVED IN 1929

Highways improved by the various states of the Union last year totaled a distance of one and one-third times around the world, it is shown in reports of the United States Department of Agriculture. In the 48 states a total of 32,322 miles of roads were improved. The expenditures for this huge job totaled over \$310,000,000. Of the money expended on the roads motor vehicle fees contributed \$278,000,000 and the gasoline receipts \$287,000,000, or more than 58 per cent of the total.

Housing Boulder Dam Workers To Be Problem

Just how and where 5000 men and their families will be housed when Boulder Dam construction activity is in full swing, is the principal problem facing Las Vegas, Nevada, says E. A. Ferron, Las Vegas business man, who recently went to Salt Lake City to confer with business interests relative to the establishment of reciprocal business relations between the two cities.

Construction of the 28-mile railroad from the Nevada city to the Boulder dam site alone will require 2000 men, and by January 1 it is estimated, the population of Las Vegas will be increased by 5000 as the direct result of the Boulder dam activity, according to Ferron.

Gus P. Backman, secretary of the Salt Lake Chamber, who conferred with Ferron, announced that a Salt Lake trade group would visit Las Vegas in the near future to confer with the Las Vegas Chamber and also the greater Las Vegas Club.

COUNTY ENGINEERS TO MEET AT VANCOUVER, WASH.

Officials of the Washington State Association of County Commissioners and the Washington State Association of County Engineers have completed a tentative program for the annual convention to be held at Vancouver, Wash., September 18-19-20.

A number of prominent speakers have been invited to participate in the program. Effort will be made to justify an attendance equal to the record turnout recorded at Walla Walla last year, when by far the outstanding convention in the organizations' history was staged by commissioners and engineers of that county.

At that convention 37 of the state's 39 counties were represented by 91 registered county commissioners. Grant and Waukegan were the only counties not represented. Twenty-six of the 39 county engineers were present.

OPEN WEB STEEL JOIST SIMPLIFICATION

Representatives of the industry, at a general conference held recently under the auspices of the Division of Simplified Practice of the Bureau of Standards, U. S. Department of Commerce, proposed and approved a simplified practice recommendation covering dimensions and allowable loads per linear foot of Open Web Steel Joists. In accordance with the usual practice of the Division, mimeographed copies of a summary report of this conference have been mailed to all interests for their consideration and signed acceptance. The recommendation, if adopted by the industry, is to become effective October 1, 1930.

"BARK" OF THE TARIFF WORSE THAN ITS "BITE"

(By Wallace Thompson, Editor, Ingenieria Internacional, New York)

The new tariff, as regards foreign trade, is a good deal like the well known canine whose bark was worse than his bite. With this exception, that the bark of the tariff, during the fifteen months of debate when it was mostly "bark" stirred up the alleged victims a good deal more than the bark of the dog usually does.

It will be noted that since the tariff has been passed and signed, there has been little talk and no actual moves toward retaliation, the talk and such moves as were made were during the "barking" period. Even France, where the threats of retaliation were loudest, has not only piped down since the tariff was finished up and made a law, but has openly stated that no steps will be taken to "get even" with us until after the flexibility clause has had a chance to show what it can do.

In other words, now that nothing further can be done to scare our Congress, or to convince the French people that their political leaders are "saving them from American tariff oppression," there are other things to occupy French political energy.

Before going a little further into this matter of foreign retaliation, let us take a sketchy glimpse of the kind of tariff we have received. Primarily it is an agricultural tariff, although "agriculture" in this case has seemed to include everything made of anything that is not mineral—shoes, for instance, and carpets.

The new tariff also has increased rates on certain mineral products, notably cement. It has also increased various rates to make it more profitable to package foreign imports, such as olive oil, in the United States, rather than abroad, inducing bulk shipments and more work for American plants in putting the goods in shape for retail distribution. But primarily it is an agricultural tariff, and the countries whose produce is going to pay the increased duties are the new countries, the pioneer countries—or so it seems, for we are a long way from knowing, yet, whether it will affect the imports from those countries, even in the slightest degree.

Included in the tariff—and this is distinctly the reason why President Hoover signed it, as he said volubly and convincingly in his statement on the eve of putting his signature on the dotted line—is a new and greatly advanced flexibility clause. Under this provision, the newly constituted Tariff Commission, on review on request, under instruction from Congress or the President, or even at its own initiative, any tariff schedule written into the law. It can authorize any change, up or down, within generous limits, and it can review any number of schedules at the same time.

The old tariff commission could take up but one schedule at a time, could only recommend, and to get information, was also forced to send out commercial investigators into foreign countries to make us more enemies than any diplomat or hard working business man could convert to friends; the Commission now gets its information by more gentlemanly means.

Moreover, the new flexibility clause can take into consideration—and this is a point that no commentator has brought forward—not only the differences in costs or production abroad, but, also, as the law states, "other relevant factors that constitute an advantage or disadvantage in competition."

It is not violating any confidence to

will the much talked-of and threatened retaliations of foreign markets as a result of this country's new tariff policy tear down the good will and halt the growing business which manufacturers of industrial equipment and materials have been building since the war?

One manufacturer recently estimated that the passing of the new tariff would cost his company a half million.

The author of this article (republished from Class and Industrial Marketing), who knows foreign markets through personal contact over a period of years, presents a different view of the situation, and gives his reasons for believing that manufacturers who have undertaken constructive marketing projects overseas have little to fear as a direct result of this country's tariff program.—Editor.

state that the President feels that this clause gives the Tariff Commission the right to consider the effect on our export trade of any tariff rate against imports from a customer country that "constitute a disadvantage in competition," that is in our competition in that particular foreign field. That is some power, and things are going to be most interesting when the Tariff Commission takes it into consideration.

So much for the new tariff law itself—one can read reams more about it in a dozen places, but these are the chief points that concern us in the broad picture of its possible effect on our export trade.

Retaliation has been talked of in many countries—thirty-seven of them protested against proposed schedules during the "barking" period of tariff building. Many of those protests were heeded, or else they were made against tariffs that never had a chance (as we look back on it now), of being enacted, like the proposed duty on bananas which the apple and potato farmers thought would force the American people to eat more apples and potatoes if it could be enacted. The lace schedule against which France protested and held parades and orations up to the day of enactment of the tariff, had been amended months before, and France had nothing on earth to protest over at the end. The same thing was true as to the tariffs on silks, which was finally raised only a tiny fraction above the old tariff.

Some protests were against tariffs destined from the first to go into effect, like that on Czechoslovakian shoes, and against what the manufacturers of tinware in this country call "Chinese" copies of our own clever kitchen utensils. The tariff on Swiss watches was bound to come, also, and the cement tariff, against Belgium and Norway in Sweden, chiefly, is now to be studied by the Tariff Commission; it virtually shuts foreign cement out of the only markets it had, the cities of the Atlantic seaboard.

The protests on the agricultural schedules were justified, but, equally truly, those schedules were destined to go in, and everybody knew it. It remains, however, a very moot question as to what will be the final state of those agricultural tariffs and how much harm they will do anyway. Can-

ada did the first and most thorough job of retaliation, by putting on the identical tariffs we did, on farm products, and we are feeling it already, and the Tariff Commission, at the request of the American farmer himself, may very well be doing something about it, and soon.

But tariffs are not likely to increase production here, even on the farms, and as we are still a large exporter of virtually all farm products (about 30% of all we produce), we shall continue to import the agricultural specialties we want. The chief final effect may well be that the American consumer pays more to the American farmer, and that is about all. As a matter of fact, that was probably the only object of the agricultural schedules in the first place.

This much seemingly needed to be said to give the picture of the tariff situation in the light of the present, which is less than a month after the bill became a law. The readers of Class & Industrial Marketing are interested in what is just one step ahead of the present, however, in the probable, and possible, effects of the tariff on exports of American machinery, industrial supplies and materials.

It is an interesting fact that so far there has been no talk, even, of retaliation abroad against any commodity in that industrial group, with the exception, speaking generally, of automobiles, and motion pictures. These are tremendous items in our export figures, and yet it has seemed to me from the beginning of the tariff agitation that even the talk of retaliation against these exports of ours has been due more to the pressure of reviving manufacture in Europe than to any feeling that politicians abroad could get away with the increased prices which a retaliatory tariff would inflict on their own people who want to buy cheap and good American cars, or American movies.

Trade barriers have been growing all over the world since the end of the war, but they have probably been hastened or raised little, if at all, by the new American tariff. If they have, the economic lever of time and public demand will tend to even them up again before too long a period passes.

But our most important markets for industrial machinery, materials and supplies definitely do not lie in the countries where local manufacturers have competing products which they demand be protected. Those greater markets lie in the pioneer countries, in the British Dominions, in part, and yet in vaster portion in Asia and in Latin America. And most of all in Latin America. More and more, when men talk of export markets they mean markets south of us, and other markets only secondarily.

There are good reasons for this, and they constitute a set of influences on our export trade and actually on our home manufacture that are as vast and far reaching in their own way, as the cataclysmic forces of the World War. They cannot be gone into here, but no one will deny that for the immediate future, even if not now, the new great market of the world is the Central field of Mexico, the West Indies, the countries where there is always a surplus, and where every step is forward—two points well worth remembering, through the thick and the thin of our own personal business year after year, with those countries.

The problems of the effect of our tariff on those markets are very different from the effect of the tariff in Europe and even in the British Dominions.

In the plunger countries the chief trade question is the marketing of their products, which are raw materials and agricultural produce, and which furnish the money with which to buy our exports. The tariff for the moment seems to reduce those markets, and these is some hardship envisioned. But one fact is always to be kept in view, and passed on to Latin American customers, if you will, and that is that the new tariff which was designed and so far as we know will have the sole effect, of attacking the pocketbook of the American consumer, who will pay more for things and thus increase the revenue of the American farmer, and without permanently affecting imports. In the beginning there will be some blows at the sales of certain products of those foreign markets.

We may raise a little more linseed, and may turn a little more of our skimmed milk into casein, and we may save a few extra hides because the price is a dollar a hide more, and we may try to raise some more beet sugar, but in the long run this country is industrializing, and will import more and more from abroad, of foodstuffs and agricultural raw materials, and with greater purchasing power will buy more and more luxuries and more and more of the specialties which even today the little factories of Argentina and of Mexico and Cuba are making for our markets. But the effort to raise newly protected produce will not last in all of these directions.

We shall abandon our flaxseed farms because it ruins the soil, and we shall soon be back feeding the skimmed milk to the pigs, and the best sugar farms will probably diminish because there is no way to put machinery to work pulling beets and man power is getting expensive—too expensive to compete with the magnificent machines we are inventing to sell abroad to make sugar more cheaply in tropical canefields.

More than this, our machines go abroad, also, to make the little factories grow into big ones and through these machines of ours, the peoples of the new lands rise rapidly in living standards and so in purchasing power. The United States is leading the world in machinery exports, not because of any love that any nation has for us, but because we make better machinery and materials and supplies. Poor indeed would any nation be in the export field if it counted its markets only amongst its devoted friends. We never have and we do not now.

A people who will buy from chain stores in spite of all the talk and discussions against them should not deceive themselves with the idea that they sell abroad only on the basis of friendship. That is good, and it is important, but the friendship that counts is service, and it is the only kind.

Through all our export history, and increasingly in the years since the war when our greatest growth has come, we have been competing against forces much more destructive than tariffs and talks of retaliation. We have been competing, I mean, against lower prices, better terms, better merchandising methods. And in spite of those, we have built our tremendous export business.

If we can expand and get new markets where the Germans are offering lower prices, and the French are working the culture theme with a skill we can never approach, and where the British are using their financial links as our bankers will never let us use ours, and where better selling methods and better representations have been the rule of our competitors—if we can do that (as we have), we can weather a tariff storm without being seriously aware of it.

Particularly will this be true, I believe, in the next two or three years, when new investments (in public works and in private industry in Latin America), with larger sums than ever to spend on American machinery, seem so definitely indicated in the trend of the money market today.

during July, as indicated by last month's shipments of basic construction materials, exceeded that of June showing a gain of 8 points to index Number 129, according to a statistical analysis just completed by the Associated General Contractors of America.

The July 1930 volume, however, was 8 3/5 per cent below that for the corresponding month last year, while the composite index number for the first seven months was 24 points, or 11 3/7 per cent below the comparative index number of 156 for 1929.

In commenting on the analysis Edward J. Harding, assistant general manager of the association, pointed out that the July volume more closely approximated that of the corresponding month last year than has that of any month of the current year since March. A continuation of this trend during the next four months, he said, could very nearly offset the decrease of 12 per cent in construction volume reported for the first half of the year.

The association's analysis shows that long term state municipal bond issues as reported by The Bond Buyer, averaged \$125,000,000 a month during the first half of the year as compared with \$116,300,000 per month for the corresponding period of 1929, and that concrete surface pavement awards totaled \$2,821,000 square yards, or an increase of 13 per cent as compared with the first six months of 1929.

The average of construction costs in the principal construction centers in July was 3 points less than the cost index figure for the same month a year ago, standing at index number 129, the association reports.

For the purpose of acquainting cities with tested methods that have proven successful in the financing of industrial development, a decision was made by the Industrial Property Division of the National Association of Real Estate Boards at the Division's meeting at the Association's recent Toronto convention to undertake an intensive survey of community financing of industry as practiced by leading American cities. Members of the Division authorized George C. Smith, St. Louis, Missouri, Division chairman to appoint a committee to make the investigation. Among the plans for attracting industry to a given community that are to be studied are those which are now successfully operated by the Baltimore Industrial Corporation, a civic enterprise organized some time ago, and the Easton, Pennsylvania, fund of \$1,000,000 available for the financing of industries arranging to locate in that city, and the Louisville, Kentucky, Foundation.

The Philadelphia Building Congress in its investigation of shopping of bids found that much of the trouble in the industry was caused through sub-contractors having submitted two bids—one that was submitted when the estimates were called in at a certain date and a lower figure when the "sub" was told he had a chance to get the job if—?

The Congress suggests that if the vicious practice of shopping of bids and price-cutting is to be eliminated and the industry is to benefit through its efforts the sub-contractor must make his first bid the lowest possible. There must be no second bid or a third one.

The "sub" knows as well as anybody else that he can't do something for nothing and that when he submits a figure lower than the bid he is sure to lose the job. He knows that if he is injuring the whole industry with himself being the chief sufferer

THE OBSERVER

What He Hears and Sees on His Rounds

Select your architect as you would select a physician or a lawyer, says the T-Square. In this age of specialization many architects, though not all, confine themselves rather closely to certain kinds of work. A man whose practice consists for the most part of banks, for example, may not be the one you would select to do a country house. Many architects refuse to do country house work, either large or small. Others whose practice consists mainly of ecclesiastical work may decline a commission to design a hospital, just as a throat specialist would send you elsewhere for an appendicitis operation.

If the project is a large and complicated one, it will probably be well to choose an architect familiar with that particular kind of work. If, on the other hand, the project is small, you will probably secure much more personal attention by engaging one of the younger men who still has his reputation to make.

There are advantages, of course, in the services of a nationally known established practitioner. There are other advantages in the services of the younger man whose reputation is as yet unmade.

One of the worst ways of selecting an architect is by inviting several to present sketches. The one who happens to be the best salesman, or who appears with the prettiest pictures (which he may have had some one else prepare) may win the commission. The better architects will not descend to such a way of getting business, just as the better lawyers or physicians will not compete for a case on the basis of tentative briefs or competitive prescriptions.

In some instances, where public work seems to require the final choice of an architect in a manner free from any suggestion of personal preference, competitions are held, but these will be entered by reputable practitioners only when conducted under approved methods of procedure, and usually when each competitor is paid for the study and work that these preliminary drawings necessitate. Details of such competition procedure may be had from reputable architects or from the American Institute of Architect, The Octagon, Washington, D. C.

For the first time since 1927 the volume of construction performed

ALONG THE LINE

Martin Tillman has been appointed chief engineer of the Antioch municipal water works system, succeeding John Fred Linwood, deceased. Tillman was formerly chief assistant to Linwood.

E. A. Hoffman, city engineer of Richmond, has been appointed by the Richmond city council to represent that city on a committee of engineers and city officials to work out the traffic problems connected with the proposed bridge over San Francisco Bay.

B. W. Creim, electrical engineer for the Modesto Irrigation District, will act as consulting engineer for the Tulare Utility District, now in process of organization, according to an announcement of C. L. Straub, engineer in charge of the new district. The Tulare district proposes to generate electricity with steam plants heated with natural gas and will supply the town of Tulare and surrounding territory.

A. R. Smith has been appointed executive engineer of the turbine engineering department of the General Electric Company to succeed the late William J. Delles. Mr. Smith will retain his responsibility as engineer of the construction engineering department. He has been with the General Electric Company since 1897, and with the construction engineering department since 1908.

John D. Twohy, 45, a member of the firm of Twohy Brothers, general engineering contractors, died in a San Francisco hospital following an illness of two weeks from pneumonia.

He was the son of the late John Twohy, founder of the firm of Twohy Brothers in Spokane, which handled construction of the Great Northern, Northern Pacific, Canadian Pacific and Southern Pacific railways and many other big construction projects of the West.

Twohy is survived by his widow, Genevieve, and four children, Patricia, Mary Lou, John and Robert. He also leaves his mother, Mrs. Mary A. Twohy, now a resident of Los Angeles, and two sisters and two brothers.

DELEGATES TO INTERNATIONAL CONGRESS OF ARCHITECTS

Six delegates will represent the United States at the twelfth international congress of architects to be held in Budapest in September, the Department of State announced.

The royal Hungarian government, having invited the government of the United States to send delegates to the twelfth international congress of architects to be held at Budapest in September, the following have been named to represent this government at that meeting:

John Mead Howells, Class Gilbert, Prof. William A. Boring, New York City; George Oakley Totten, Washington, D. C.; Dr. C. Howard Walker, Boston, Mass.; Frank C. Baldwin, The Octagon, Washington, D. C.; alternate delegate, Prof. Warren P. Laird, Philadelphia, Pa.

Southern Pacific Company has been directed by the Railroad Commission to refund to Lassen Lumber and Box Company all charges collected in excess of 5 cents per 100 pounds, minimum carload weight 80,000 pounds, or 60,000 pounds according to car capacity, for the transportation of rough sawn ties from Susanville to Lasco.

\$20,676,703 IS PACIFIC COAST BUILDING EXPENDITURE FOR JULY

According to reports received from building department executives in the principal cities of the Pacific Coast section, California building activities in July, 1930, involved an expenditure of \$16,116,176 as compared with \$34,991,195 for the corresponding period in 1929.

Washington is the only state comprised in the Pacific Coast area reporting increased construction for the past month. In July of this year,

Washington reports an expenditure of \$2,636,869 as compared with \$2,378,413 for the same period in 1929.

Oregon reports improvements involving an expenditure of \$518,213 for July of this year as compared with \$2,283,207 for July, 1929.

The following is a complete report of Pacific Coast building permit activities for the month of July, 1930, together with the month of July, 1929, for comparative purposes:

CALIFORNIA

City	No.	July, 1930		July, 1929
			Cost	
Alameda	71	\$	64,940	\$ 61,903
Alhambra	57		150,300	218,400
Anaheim			31,135	45,065
Bakersfield	45		198,257	197,055
Berkeley	138		171,411	1,512,213
Beverly Hills	113		551,130	494,885
Burbank	26		74,075	53,509
Burlingame	20		34,275	148,564
Carmel	9		4,825	11,298
Chula Vista	9		4,170	12,060
Colton	13		6,100	16,000
Compton	18		32,300	79,975
Coronado	22		43,884	45,045
Culver City	4		59,980	209,265
Emeryville			68,650	900
Eureka	30		36,001	22,222
Fresno	103		79,139	88,154
Fullerton	8		20,875	22,656
Glendale	117		304,677	588,262
Hayward	10		12,615	9,988
Huntington Park	42		143,260	191,135
Inglewood	42		81,875	42,337
Long Beach	416		867,195	943,325
Los Angeles	2,748		5,841,626	7,942,132
Los Gatos	9		7,550	11,850
Lynwood	13		21,570	115,310
Modesto	38		33,471	32,450
Montebello	9		17,700	33,700
Monterey	17		8,517	80,651
National City	18		12,870	15,940
Oakland	338		369,909	1,376,681
Oceanside	15		2,890	14,050
Ontario	17		20,450	22,785
Orange	11		18,300	31,475
Pacific Grove	15		22,725	17,100
Palo Alto	44		89,465	118,775
Palos Verdes Estates	4		27,000	38,000
Pasadena	300		1,591,514	515,964
Petaluma	5		9,900	59,925
Piedmont	14		142,800	155,103
Pomona	50		284,800	153,985
Redlands	17		56,120	25,400
Redwood City	20		117,390	29,100
Richmond	36		36,150	61,335
Riverside	46		63,691	128,184
Sacramento	144		207,032	435,795
Salinas	23		39,400	94,087
San Bernardino	59		124,617	215,017
San Diego	334		478,428	1,096,722
San Francisco	494		1,086,836	3,972,981
San Gabriel			47,075	75,555
San Jose	46		470,865	336,140
San Leandro	22		53,285	34,360
San Marino	17		221,877	244,760
San Mateo	19		185,392	153,978
San Rafael	5		106,025	19,975
Santa Ana			293,887	166,234
Santa Barbara	121		325,659	190,102
Santa Cruz	18		13,645	88,805
Santa Monica	74		197,920	144,974
Santa Rosa	15		70,325	25,375
South Gate	41		84,185	203,575
South Pasadena			87,765	42,885
Stockton	55		49,360	156,235
Torrance	16		42,250	21,873
Ventura	10		21,750	119,475
Vernon			97,545	140,505
Watsonville	15		17,915	6,575
Total	6,615		\$16,116,176	\$24,991,195
ARIZONA				
Phoenix	69	\$	451,670	\$ 621,765
Tucson	66		76,413	211,119
Total	135	\$	528,083	\$ 832,884

City	No.	July, 1930	July, 1929
IDAHO			
Idaho Falls	9	\$ 97,350	\$ 144,650
Lewiston	18	16,662	108,940
Nampa	18	10,125	10,286
Total	45	\$ 124,137	\$ 353,876
NEVADA			
Reno	35	\$ 105,450	\$ 150,900
OREGON			
Albany	10	\$ 3,100	\$ 6,275
Astoria	21	2,920	26,673
Corvallis	23	38,000	62,142
Eugene	53	27,675	65,772
Klamath Falls	40	83,470	333,330
La Grande	12	9,570	4,050
Marshfield	5	51,025	16,400
Portland	484	584,995	1,113,675
Salem	56	17,458	554,890
Total	704	\$ 818,213	\$ 2,285,207
UTAH			
Logan	6	\$ 13,800	\$ 70,800
Ogden	19	13,700	14,550
Salt Lake City	60	320,275	287,245
Total	85	\$ 347,775	\$ 372,595
WASHINGTON			
Aberdeen	59	\$ 29,777	\$ 25,359
Anacortes	5	1,400	17,670
Everett	97	29,890	78,215
Hoquiam	30	11,995	40,215
Longview	7	50,560	37,380
Seattle	595	1,315,530	1,382,220
Spokane	166	667,350	219,014
Tacoma	233	360,410	224,140
Vancouver	28	18,240	29,340
Walla Walla	18	16,662	30,210
Wenatchee	25	88,055	186,675
Yakima	36	37,900	107,975
Total	1,299	\$ 2,636,869	\$ 3,278,413
Grand Total	3,918	\$20,676,783	\$31,363,070

ARCHITECTS' LICENSE LAW CITED IN REDWOOD CITY CASE

From time to time requests come to Building & Engineering News for interpretation of the law regulating the practice of architecture in the State of California. To enlighten those not yet thoroughly familiar with the requirements of the measure, now being rigidly enforced throughout the State, William T. Sweigert, San Francisco attorney, was requested to prepare a brief on the important angles of the law. His explanation is published herewith.—Editor.

On July 7th one J. G. Lehman was arrested in Redwood City for violation of the state law regulating the practice of architecture.

It appears that Lehman had consulted the Board of Trustees of the First Baptist Church of Redwood City, regarding plans and specifications for the erection of a new building. He was employed to draw them for five hundred dollars and, after completing some of them, was paid two hundred dollars, on account.

It was later learned that Lehman was not an architect holding a certificate to practice under the laws of this state. He had not, however, informed the Board of Trustees to that effect in writing. Complaint was made. A representative of the state board investigated the case. The arrest was made; the charge was prosecuted and Lehman, on July 13th, was found guilty by the Justice Court at Redwood City, and sentenced to a fine of two hundred dollars, or in lieu thereof, twenty days in the county jail.

Under the state law it is a misdemeanor for any person to practice architecture without a certificate. The law formerly provided, however, that nothing in it would prevent any person from furnishing plans or other data for buildings, if such person fully informed the person for whom the

plans or data were furnished that he was not a certified architect. Under this provision, a person would not have violated the law, if the person for whom the plans or specifications were drawn was orally informed that the person drawing the plans was not a certified architect.

On April 6th, 1929, the legislature amended the law in an important respect. The law as it now stands, makes it a misdemeanor, punishable by a fine of not less than fifty nor more than five hundred dollars, or by imprisonment in the county jail not exceeding six months, or by both such fine and imprisonment, for any person to practice architecture in this state without a certificate, or to advertise or put out any sign or card or other device which might indicate to the public that he is an architect or that he is qualified to engage in the practice of architecture.

The proviso formerly contained in the law has been narrowed to require that an uncertified person, furnishing plans, drawings, or specifications, instruments of service, or other data for buildings, must prior to accepting employment or commencing work fully inform his employer in writing that he is not an architect. In other words an uncertified person furnishing such data is not now fully protected, merely by orally informing the person employing him that he is not an architect. The uncertified person must give that information in writing in order to comply with the law.

The law now does not apply to persons furnishing plans, drawings, specifications, instruments of service or other data for labor and materials to be furnished for store fronts, interior alterations or additions, fixtures, cabinet work, furniture, or other appliances or equipment, or for

any work necessary to provide for their installation, or for any alterations or additions to any building necessary to or attendant upon the installation of such work. In other words, uncertified persons may furnish plans and specifications for work of this limited type.

The law still provides, of course, that any person may make plans or drawings for his own buildings.

With respect to practicing architecture without a certificate it should be remembered that, in addition to the criminal aspect, no recovery may be had in a civil action for services rendered by an uncertified person in violation of the law.

\$65,000 SOUGHT TO "SELL" EAST BAY DISTRICT

The Alameda County Board of Supervisors has been asked by a group of civic organizations of the county to include in the next budget an item of \$65,000 for an advertising campaign to "sell" the Eastbay to Eastern investors and manufacturers looking for a place to establish new industries and to invest money.

Besides advertising, the appropriation would provide a means for sending a personal representative East when necessary to make personal contact with investors and manufacturers.

It is to be a campaign of "one for all and all for one," to benefit the entire Eastbay.

The supervisors referred the request to the committee working on the items of the budget, which is to be presented next month.

CONTROL FOR REVERSING SMALL MOTORS

The General Electric Company announces a convenient reversing equipment for small motors, CR-7009-15-19. This switch is designed to handle squirrel cage motors rated 1 1/2 horsepower at 110 volts, and 2 horsepower at 220, 440, 550 and 600 volts, 25 to 60 cycles.

The switch consists of two contactors mechanically interlocked and having four sets of contacts and terminals. Three of these contact sets are for power circuits and the remaining one is for the holding circuit of the coil. The terminals are front connected and are marked to facilitate wiring.

The equipment is mounted on a compound base for mounting in an enclosing case. The case is suitable for wall mounting and has removable cover and knockouts for the incoming and outgoing leads. A three-button ("Forward," "Reverse," "Stop") push-button station is recommended for a control switch.

California forestry is to be taught in the schools of this state. To meet the demand for fact information regarding California's forests, the California State Chamber of Commerce has published an edition of 50,000 forest handbooks for California. The text designed for use in grammar and high schools, was written by forestry experts, and outlines in simple language, a course in forestry education as applied to California conditions. The Handbook has received final approval for use in the public schools by the State Department of Education in accordance with the state law which permits teachers to devote a portion of class time to the study of Forestry. The Forest Handbook for California will be furnished to anyone requesting it for educational purposes, it is stated.

HERE — THERE — EVERYWHERE

The Bricklayers' Union in Chicago has made objection to the use of hollow tile in load-bearing walls of buildings, as permitted under the present municipal ordinance. It is claimed that such walls are deficient in strength and in fire-resistant properties.

Salaries of all city employees of Asheville, N. C., beginning with the mayor, who loses \$1,500 annually, have been slashed 20 per cent as part of an economy program. This will effect a substantial reduction in the tax rate.

U. S. Senator McNary, following a conference with Congressman W. C. Hawley and Oregon lumbermen at Salem, Ore., telegraphed Assistant Secretary of the Treasury Lohman, urging him to use every effort to have Russian lumber and pulpwood excluded from the United States. McNary told the lumbermen if the treasury department did not assure them protection against imported lumber he would be ready to join the Oregon congressional delegation in carrying on the fight.

The International City Managers' Association will hold its annual convention in San Francisco, September 24 to 27. Sessions will be held at the Palace Hotel with a one-half day session at the University of California. Hollis Thompson, city manager of Berkeley, is chairman of the local convention committee.

Citizens of Colby, Kan., will have to worry along another year with no municipal taxes to grow indignant over. For the third successive year the city council voted to let the municipal water plant wash away the city's bills. During two years, earnings of the plant have paid administration bills, providing \$200,000 for pavements, paid for new equipment and placed a balance of \$45,000 in the city treasury.

Specifications and instructions for using and testing Quikard cement are given on a 16-page illustrated booklet issued by the Ash Grove Lime & Portland Cement Co., Kansas City, Mo.

CIVIL SERVICE EXAMINATIONS FOR BOULDER DAM WORK

The U. S. Civil Service Commission announces open competitive examinations for positions in connection with the boulder dam project and also in connection with design and specifications for the proposed All-American Canal of the U. S. Reclamation Service. The positions to be filled and the salaries are: Principal civil engineer, \$5,600 to \$6,400; senior civil engineer, \$4,600 to \$5,200; senior electrical engineer, \$4,600 to \$5,200; senior mechanical engineer, \$4,600 to \$5,200; civil engineer, \$3,800 to \$4,400; mechanical engineer, \$3,800 to \$4,400.

Applications must be on file with the Civil Service Commission at Washington, D. C., not later than Sept. 10. Competitors will not be required to report for examinations, but will be rated on their education, experience and fitness. Full information may be obtained from the U. S. Civil Service Commission, Washington, D. C., or from the secretary of the U. S. Civil Service board of examiners at the post office or custom house in any city.

TRADE LITERATURE

The Paradon chlorinizer, for the application of chlorine solution to small water supplies, swimming pools and sewage plants, is described in a four page leaflet issued by the Paradon Mfg. Co., Arlington, N. J.

Reprints of two articles dealing with the use of automatic drainage gates are available from the California Corrugated Culvert Co., West Berkeley, Calif. One of these deals with land drainage and protection in the Brazos Valley of Texas; the other with the remodeling of the sewage-treatment plant at Houston, Texas.

A new booklet entitled "Bridge Designing" has just been issued by the American Institute of Steel Construction. This is illustrated with reproductions of the drawings submitted by the engineering and the architectural students in the recent prize competition held by the Institute. Ten drawings by architectural students and seven drawings by engineering students submitted in the final judgment are published in the booklet.

Bar-X-Lath, a new product combining diamond mesh lath with reinforcing rods, is described in a 4-page folder issued by the Consolidated Expanded Metal Companies, Wheeling, West Virginia.

Three illustrated catalogs of the St. Paul Corrugated Co., St. Paul, Minn., deal with steel decking, skylights and ventilators, and corrugated metal culverts and well curbing.

"Bleaching Powder as an Auxiliary Treatment of Sewage," an article by Herbert P. Bell, manager of the sewage-works at Barnsley, England, has been reprinted by Innis, Speiden & Co., 117 Liberty St., New York City.

Catalog 83-R, describing the Sullivan line of portable gasoline-engine-driven compressors of two- and four-cylinder units ranging in capacity from 66 to 210 cu. ft., has been issued by the Sullivan Machinery Co., Chicago.

WESTINGHOUSE HAS NEW TYPE OF STREET LIGHT

The Westinghouse Electric and Manufacturing Company announces the Type TC Titan Luxsolite, an ornamental suspension type luminaire designed for bracket mounting, for use with series street lamps of 4,000, 6,000, 10,000, or 15,000 lumens operating on the secondary of safety coils or with multiple street lamps of 300, 500, 750, or 1,000 watts.

This fixture is quite simple in construction, consisting of an adjuster tapped for a 1½ inch pipe, a cast iron canopy, a spun copper case, a globe holder, a globe, and a socket mounted on adjustable supports. It is provided with gaskets which render it thoroughly weather and dust proof.

The adjuster which is attached to the canopy consists of a casting which houses a universal joint. This joint permits the fixture to adjust itself to a true vertical position after it is mounted on a bracket.

The globe is hinged to provide accessibility for cleaning and relamping.

TRADE NOTES

Naldrett Plumbing Co. has opened new shop and office quarters at 847 Emerson Street, Palo Alto. The shop is operated by James E. Naldrett.

Standard Sheet Metal Works, operated by V. Christensen, has opened new quarters at 917 C Street, Hayward. The firm will engage in general repair and contract work.

Moorehead Lumber Co., Ltd., of San Francisco, capitalized for \$50,000, has been incorporated. Incorporators are: Chas. C. Moorehead, C. N. Winslow, and G. M. Harrington.

Jas. P. Marsh & Company, Chicago, a division of the Commercial Instrument Corporation, announce the appointment of E. L. Aikins of the Marsh Sales Company as district representative for the states of Washington, Oregon, Montana, Idaho and British Columbia. The Marsh Company manufactures heating systems and units, industrial instruments, automatic air valves and gauges.

Roy Barto, president and manager of the Cadwalader - Gibson Company of Los Angeles, recently returned from the Philippines where he spent several months at the hardwood mills of the company.

Phil. B. Hart has joined the sales force of the Schumacher Wallboard Corporation of Los Angeles. He will maintain headquarters in San Francisco.

The joint board of directors of the C. Pardee Works and the Matawan Tile Company have announced the formation, effective August 1, of a new selling company, the Pardee-Matawan Tile Company. This company will handle the sales of these two companies in their respective fields of wall and floor tiles.

The Pardee-Matawan Company will have offices in New York City, Perth Amboy, N. J.; Matawan, N. J.; Boston, Philadelphia, Buffalo, Detroit, Cincinnati, Chicago, Dallas, Los Angeles and Atlanta.

SURETY BOND METHOD URGED BY OAKLAND PLUMBERS

Using the questionnaire method of securing the opinions of Oakland plumbers concerning proposed changes in the city plumbing law, Plumbing Inspector A. R. Cordan learns that the plumbers do not wish to retain the present cash-deposit system but prefer surety bonds for the faithful performance of all work done within the city limits.

At present the plumbers put up a \$100 cash deposit to the city, and the money remains in the city treasury unless the plumber goes out of business.

The plumbers also object to paying their special license fee, and are not in favor of the general license idea. The results of the questionnaire were as follows:

1. Shall we retain the present \$100 cash deposit? For, 48; against, 57.
2. Are you in favor of a surety bond? For, 57; against, 47.
3. Are you in favor of the present annual city plumbing license? For, 49; against, 56.
4. Are you in favor of being licensed on the basis of all other business as licensed in the city of Oakland? For, 49; against, 52.

Building News Section

APARTMENTS

Preparing Plans.

APARTMENTS Cost, \$—
LOS ANGELES, Cal. No. 470 N. Rossmore Ave.
 Thirteen-story and basement Class A reinforced concrete apartments (150x135 feet).
 Owner and Builder—Harry Feigenbaum, Union Bank Bldg., Los Angeles.
 Architect—Max Maltzman, Union Bank Bldg., Los Angeles.

Sub-Contracts Awarded.

APARTMENTS Cost, \$55,000
REDWOOD CITY, San Mateo Co., Cal. No. 1 Duane Street.
 Three-story and basement concrete and frame apartments.
 Owner—M. E. Ryan, 231 Main St., Redwood City.
 Architect—None.
 Contractor—Russell & Duncan, % Owner.

Lumber—Gray & Thorning Lumber Co., Redwood City.

Plumbing—P. E. Brand, Redwood City.

Electrical Work—M. E. Ryan, Redwood City.

Painting—L. E. Doolittle, Redwood City.

Plastering—R. Childers, Redwood City.

Hardwood Flooring—Anderson & Jensen, Redwood City.

Heating—Walter Sterling, Redwood City.

Brick Work—Harry Gee, San Carlos.

Sand, Gravel and Cement—Peninsula Building Materials Co., Menlo Park.

Roofing—San Mateo Roofing Co., San Mateo.

Frigidaire—J. P. Neifing, Palo Alto.

Concrete—J. Morey, Menlo Park.

Wall Beds—Marshall-Stearns Co., Phelan Bldg., San Francisco.

Steel Sash—Michel & Pfeffer Iron Works, Harrison and Tenth Sts., San Francisco.

Plans Being Figured.

APARTMENTS Cost, \$16,000
SAN FRANCISCO. Cabrillo Street E 32nd Avenue.
 Two-story frame and stucco apartments (four 3-room apts.)
 Owner—Withheld.
 Architect—Richard Irvine, Call Bldg.

Plans Being Figured.

APARTMENTS Cost, \$50,000
SAN FRANCISCO. SE Pierce and Alhambra Streets.
 Three-story and basement frame and stucco apartments (12 3-4- and 5-room apts.)
 Owner—Paramount Building Corporation, Ltd., 200 Green St.
 Architect—Richard Irvine, Call Bldg.

Permit Applied For.

APARTMENTS Cost, \$200,000
LOS ANGELES, Cal. No. 1745 N. Gramercy Place.
 Seven-story Class A reinforced concrete apartments (87x166 feet).
 Owner—Edith A. Kassing, 1745 B Gramercy Place, Los Angeles.
 Architect—Frank W. Green, 1612 Cosmo St., Los Angeles.
 Contractor—A. J. Showalter, 1354 N. Harper Ave., Los Angeles.

Plans Completed.

APARTMENTS Cost, \$350,000
LOS ANGELES, Cal. Cambra St. near Union Avenue.
 Eleven-story and basement reinforced concrete Class A apartments (240 rooms).
 Owner—Dr. Compson.
 Architect—Leonard L. Jones, 2504 W Seventh St., Los Angeles.

Segregated Figures Being Taken.

APARTMENTS Cost, \$75,000
OAKLAND, Alameda Co., Cal. E 16th St. bet. 27th and 26th Sts.
 Three-story frame and stucco apartments with concrete basement (21 2- and 3-room apts.)
 Owner—Name Withheld.
 Architect—Willis Lowe, 354 Hobart St., Oakland.
 Will have exterior of stucco and cast stone, imitation slate, tar and gravel roof, concrete garage, elevator, gas heating system, etc.

Construction To Start Shortly.

APARTMENTS Cost, \$175,000
OAKLAND, Alameda Co., Cal. No. 400 Perkins Street.
 Six-story and basement steel frame and brick apartments (60 apts.; 2, 3 and 4-rooms).
 Owner and Builder—Harry Schuster, 2424 Curtis St., Berkeley.
 Architect—Willis Lowe, 354 Hobart St., Oakland.
 Sub-bids are in and will be awarded shortly.

Plans Being Prepared.

APARTMENTS Cost, \$45,000
SAN FRANCISCO. N side North Point 90 ft. E Broderick.
 Three-story frame and stucco apts. with brick basement (12 3-room apts.)
 Owner & Builders—Robinson & Johnston, 871 31st Avenue.
 Plans by Lawrence Ebbets, Call Bldg.
APARTMENTS Cost each, \$50,000
SAN FRANCISCO. Marina District (exact location withheld; gore corner).
 Two 3-story frame and stucco apts. with brick basements (six-room apts.)
 Owner—Name Withheld.
 Plans by Lawrence Ebbets, Call Bldg.
 Electric refrigeration, Spanish tile, etc.

Plans Being Prepared.

APARTMENTS Cost, \$25,000
SAN FRANCISCO. Forest Hill District (exact location withheld).
 Group of four 2-story frame stucco apartments (64 apts., all private entrances; Mediterranean type of architecture).
 Owner—Name Withheld.
 Plans by Lawrence Ebbets, Call Bldg.
 More definite information will be given in two weeks. Promotion arrangements are now under way.

Plans Being Prepared.

APARTMENTS Cost each, \$50,000
SAN FRANCISCO. Richmond District (exact location withheld).
 Three 3-story and basement frame and stucco apartments.
 Owner and Builder—M. P. Storheim, 475 Euclid Ave.
 Plans by Lawrence Ebbets, Call Bldg.
 More definite information will be given in one week.

Segregated Figures Being Taken By Owner.

APARTMENTS Cost, \$35,000
SAN FRANCISCO. NE Broderick St. and Golden Gate Ave.
 Three-story and basement frame and stucco apts. (12 apts.)
 Owner—C. E. Lynn, 1435 Steiner St.
 Plans by L. O. Berg, 675 Corbett Ave.

BONDS

SALINAS, Monterey Co., Cal.—Until September 2, bids will be received by county supervisors for purchase of the \$5,000 bond issue of the Moss Landing School District; proceeds of the sale to finance school improvements. W. H. Weeks, 111 Sutter St., San Francisco, architect.

PLACERVILLE, El Dorado Co., Cal.—Until September 2, bids will be received by county supervisors for purchase of the \$14,000 bond issue of the Camino School District; proceeds of the sale to finance erection of a new school.

CALISTOGA, Napa Co., Cal.—Election will be held August 26 in Calistoga Joint Union School District to vote bonds of \$70,000 to finance erection of a new grammar school. Trustees of the district are: Homer Wright, C. E. Bentley, W. H. Johnston, W. C. Wiggins and W. D. Tucker.

CHURCHES

Plans Being Prepared.

SYNAGOGUE Cost, \$—
LOS ANGELES, Cal.—Cincinnati St. near Pickett St.
 Brick and steel synagogue (14,000 sq. ft.)
 Owner—Beth Temple.
 Architect—Max Maltzman, Union Bk Bldg., Los Angeles.
 Contractor—Harry Feigenbaum, Union Bank Bldg., Los Angeles.

Contract Awarded.

REMODELING Cost approx. \$25,000
SAN FRANCISCO California St. and Franklin St.
 Remodel Sunday school
 Owner—1st Church of Christ Scientist
 Architect—Henry H. Gutterston, 224 Powell St.
 Contractor—Moore and Madsen, 507 Market St.

A Demonstration of the

SKILSAW PORTABLE ELECTRIC HAND SAW

Will solve your cutting problems.
 (Four Models, 1/2 to 1 h. p.)

ELECTRIC HAMMERS ELECTRIC DRILLS GRINDERS, BUFFERS

PETER H. NELSON

Labor Saving Portable Electric Tools.

1222 Mission St.
 San Francisco

Underhill
 1267

Contract Awarded.
ADDITION Cost, \$25,000
SAN FRANCISCO. Balboa Street and
40th Avenue.
One - story and basement frame and
stucco addition to church.
Owner—Roman Catholic Archdiocese.
Architect—Geo. McCrea, Hearst Bldg.
Contractors—J. A. Bryant, 185 Steven-
son Street.

Plans Being Completed.
CHURCH Cost, \$30,000
NORTH OAKLAND, Alameda Co., Cal.
Two - story frame and brick veneer
church (auditorium to seat 570).
Owner—Colored Baptist Church.
Architect—Charles W. McCall, 1404
Franklin St., Oakland.
Bids will be called for in one or two
weeks. Financing arrangements are
now being made.

Plans Completed.
CHURCH Cost, \$10,000
BAKERSFIELD, Kern Co., Cal.
Fourth St. and Chester Ave.
Church.
Owner—Church of the Nazarene, Rev.
S. H. Erwin, Pastor.
Architect—Edwin J. Symmes, Habers-
felde Bldg., Bakersfield.

Commissioned To Prepare Plans.
CHURCH Cost, \$40,000
SAN MATEO, San Mateo Co., Calif.
San Mateo Drive.
One-story frame and stucco church.
Owner—First Congregational Church.
Architect—Kent & Hass, 325 Market
St., San Francisco.

FACTORIES AND WARE- HOUSES

Contract Awarded—Sub-Bids Being
Taken.
FACTORY Cost, \$30,000
OAKLAND, Alameda Co., Cal. 46th
and Telegraph Aves.
Two and three-story frame and
stucco factory and warehouse.
Owner—Margaret Burnham Candy Co.,
3800 Piedmont Ave., Oakland.
Plans by George Koster, 2355 Leaven-
worth St., San Francisco.
Contractor—Vogt & Davidson, Inc.,
185 Stevenson St., San Francisco.
Sub-bids are wanted on all portions
of the work.

Completing Plans—Contract Awarded.
FACTORY Cost, \$—
SOUTH SAN FRANCISCO, San Ma-
teo Co., Cal.
One-story steel frame & brick factory
Owner—Seattle Chain & Mfg. Co., 6921
E-Marginal Way, Seattle, Wash.
Plans by Austin Co. of California
Contractor—Austin Co. of California
Ray Bldg., Oakland.
Sub-bids will be taken within one
week.

KINGMAN, Ariz.—The Kingman
Refining & Smelting Corporation has
filed articles of incorporation with the
Arizona Corporation Commission.
Capital stock \$1,000,000. Elmer A.
Hester, Wm. F. Engler and W. R.
Little, 1614 S. Flower St., Los An-
geles, are directors. It is understood
the company proposes erecting a
custom smelter in Kingman.

Contract Awarded.
FACTORY Cost, \$50,000
SAN FRANCISCO. McAllister Street
near Fillmore St.
Two-story and basement Class C brick
loft building (offices and factory).
Owner—Withheld.
Plans by Lawrence Ebbets, 320 Ful-
ton St., San Francisco.
Contractor—Spivock & Spivock, Ho-
hart Bldg., San Francisco.

Contract Awarded.
CREAMERY Cont. Price \$15,500
SAN MATEO, San Mateo Co., Cal.
Bayshore Highway.
Owner—Jersey Farm Creamery.
Plans by Earl Cavasso, 235 3rd Ave.,
San Mateo.
Contractor—Frank Boring, 1045 Bal-
boa Ave., Burlingame.

Contract Awarded.
BUILDING Cost, \$25,000
SAN FRANCISCO. SE Fulton and
Webster Sts.
Two-story and basement concrete in-
dustrial building.
Owner—Cereal Products Refining Co.,
Fulton and Webster Sts.
Engineer—J. A. Wright, 381 Bush St.
Contractor—R. J. H. Forbes, 1050 Mo-
nadnock Bldg.

Plans Being Prepared.
AUTO PLANT Cost, \$140,000
SAN FRANCISCO. Outlying Mission
District (exact location withheld).
Two-story class C concrete steel au-
tomobile distributing plant (30,-
000 sq. ft.).
Owner—Name Withheld.
Plans by Lawrence Ebbets, Call Bldg.
Will contain display room, offices
and assembly plant.

Contract Awarded.
ALTERATIONS Cost, \$15,000
SAN FRANCISCO. SW 11th and Mis-
sion Streets.
Alterations to greasing sales shop and
two 1-story and mezzanine floor
buildings.
Owner—J. H. and H. Herbst, 1524 Mis-
sion St.
Engineer—N. B. Green, Sharon Bldg.
Contractor—F. R. Siegrist, 604 Mis-
sion St.

Contract Awarded.
SHED Cont. price, \$114,868
SAN FRANCISCO. Pier No. 1.
One - story shed (reinforced concrete
construction; steel columns, wood
roof).
Owner—State Board of Harbor Com-
missioners.
Engineer—Frank White, Ferry Bldg.
Contractor—Barrett & Hilp, 918 Har-
rison Street.

Plans Being Figured—Bids Close
August 16, 2 P. M.
BUILDING Cost, \$—
EUREKA, Humboldt Co., Cal. Fifth
St., bet. F and G Sts.
Two-story brick building.
Owner—W. P. Fuller & Co., 301 Mis-
sion St., San Francisco.
Architect—Franklin T. Georgeson, 6th
and G Sts., Eureka.
Following contractors are submit-
ting bids:
F. J. Maurer & Son, Inc., 3031 E.
St., Eureka.
Mercer-Fraser Co., Eureka.
Halseby & Lax, 322 F St., Eureka.
Louis Halvorsen, P. O. Box 75,
Eureka.

Plans and specifications may be
seen at the Builders' Exchange, San
Francisco.

Preliminary Plans Being Prepared.
MILL Cost, \$200,000
ERDORICK, Yolo Co., Cal.
Rebuild mill.
Owner—California Rice Growers Assn.
(E. L. Adams, president, Chico).
Engineer—C. H. Snyder, 251 Kearny
St., San Francisco.
Mill was recently destroyed by fire,
with loss of \$450,000.

Planned.
FACTORY Cost, \$2,000,000
LOS ANGELES, Cal. Industrial Dis-
trict (Site not selected).
Class A underwear factory.
Owner—Cooper's Kenoshas, Robert L.
Cooper, President, Wisconsin.
Architect—Not Selected

Blow Grover, 768 S. Los Angeles St.,
is the general manager of the Pacific
Coast Territory.

LOS ANGELES, Cal. — Robert W.
Hunt Co., 556 Chamber of Commerce
Bldg., has been commissioned to per-
form mill, shop and field inspection
of structural steel for Class A building
to be erected at northwest corner of
Fifth and Hills Sts. for Title Guar-
antee & Trust Co. Approximately
1200 tons of steel involved, to be fab-
ricated and erected by Consolidated
Steel Corp. P. J. Walker Co., build-
ers, 1111 W. M. Garland Bldg. John
and Donald B. Parkinson, architects,
808 Title Insurance Bldg.

Plans Being Prepared.
ROCK WORK Cost, \$60,000
(steel and concrete work)
LIVERMORE, Alameda Co., Cal.
Additional work at rock crusher plant.
Owner—Kaiser Paving Company.
Engineer—L. H. Nishkian, 525 Market
St., San Francisco.

There will be considerable new ma-
chinery installed. Work on a portion
of the plant is now under construction
by Schuler & MacDonald. Oakland.

GARAGES AND SERVICE STATIONS

Contract Awarded.
GARAGE Cont. Price, \$33,400
BERKELEY, Alameda Co., Cal. Du-
rant and Fulton Sts.
One-story reinforced concrete garage
and salesroom.
Owner—Victor H. Doyle, 74 Oak Ridge
Road, Berkeley.
Architect — Frederick H. Reimers,
Franklin Bldg., Oakland.
Contractor—F. C. Stoltz, 10 Glen Al-
pine Road, Piedmont.

Sub-Bids Being Taken.
SERVICE STATION Cost, \$—
OAKLAND, Alameda Co., Calif. 19th
and Franklin Sts.
Brick service station.
Owner—Standard Oil Co., 225 Bush St.,
San Francisco.
Plans by Eng. Dept. of Owner.
Contractor—Dudley De Velbiss, 3 69
Pine St., San Francisco.
There will be considerable miscel-
laneous concrete and plumbing work,
etc.

Preliminary Plans Being Prepared.
GARAGE Cost approx, \$30,000
BERKELEY, Alameda Co., Cal. Ox-
ford St.
Class C concrete garage and service
station.
Owner—Regents of University of Cali-
fornia, Berkeley.
Architect—W. H. Ratcliff, Jr., Cham-
ber of Commerce Bldg., Berkeley.
Lessee—Richfield Oil Company.

To Be Done By Day's Work.
SERVICE BLDG. Cost, \$50,000
SAN FRANCISCO. SW 11th and How-
ard Sts.
One-story class C tire service building.
Owner—Goodrich Silvertown, Inc., 1660
Pine St.
Plans by Eng. Dept. of Owner.

Plans Being Figured.
GARAGE Cost, \$—
LOS ANGELES, Merced Co., Cal. Sixth
and M Sts.
Brick or tile and concrete garage (125
by 205 ft.).
Owner—Kallian Motor Co.
Architect—Wieland Bros., Modesto.
Modern hydraulic lifts will be in-
stalled for repair work and greasing
and oiling of cars. High pressure car
washing system to be part of the shop
equipment. Showers and lockers will
also be installed.

GOVERNMENT WORK AND SUPPLIES

SACRAMENTO, Cal.—Until August 19, 3 P. M., under Order No. 2296, bids will be received by U. S. Engineer Office, California Fruit Bldg., for hire of launch for a period of 30 days. Further information obtainable from above.

Contract Awarded
POWER LINE Cont. price, \$4990
SAN FRANCISCO. Angel Island, San Francisco Bay.
Install 11,000-volt power line at Quarantine Station.
Owner—U. S. Government.
Architect—Supervising Architect, Treasury Dept., Washington, D. C.
Contractor—Langlais Electric Co., 472 Tehama St., San Francisco.

SAN FRANCISCO.—Until August 25, 11 A. M., bids will be received by Constructing Quartermaster, Fort Mason, to extend street lighting system and install new street lighting standards at Letterman General Hospital. Specifications obtainable from above.

HAWTHORNE, Nevada.—Until September 10, under Specification No. 6137, bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., to erect stable at the Naval Ammunition Depot, Hawthorne. The project consists of a two-story concrete structure with wood roof framing and asbestos shingle roofing equipped with ten stalls and stall fixtures; a corral consisting of a fenced area involving approximately 325 feet of 6 foot wire fabric fence, and a frame shelter. The work includes concrete work, timber, and framing, asbestos shingle and prepared roofing, sheet metal work, plumbing and electrical work, and screens.
Plans and specifications obtainable from the District Public Works Officer, Room 513, 100 Harrison Street, San Francisco, on deposit of \$10 check or money order payable to the Chief of the Bureau of Yards and Docks.

SAN FRANCISCO.—Until September 3, 11 A. M., under Specification No. 6216, bids will be received by Public Works Officer, Mare Island Navy Yard, for improvements at the U. S. Naval Radio Station at the Farallon Islands. Project will involve fire protection, concrete walls, sewer, tank hoops and weatherstripping. Plans obtainable from Commandant, Navy Yard, Mare Island, on deposit of \$10, checks for same to be made payable to Chief of the Bureau of Yards and Docks.

See call for bids under official proposal section in this issue.

Contracts Awarded.
WARD BLDGS. Cost, \$150,000
SAN FRANCISCO. Presidio of San Francisco.

Three reinforced concrete ward buildings at Letterman General Hospital.

Owner—United States Government.
Architect—Constructing Quartermaster, Fort Mason, San Francisco.

This project will be known as Ward Nos. 22 and 24. Will be two-story, each ward containing 68 beds, each equipped with radio communications. The roof, terrazzo and tile and rubber floors; tile wainscoting. Each structure will contain 22 basins, 10 water closets, 4 slop sinks, 2 bed pan sterilizers, battery of instruments and dressing stations, surgery, stainless steel steam tables, sinks, tables, dish warmers and tray racks, nurses' call system, drinking fountain and fixtures.

General Work
Frank J. Reilly, 6350 Fulton St., San

Francisco, \$104,432 (three Ward Bldgs. Nos. 5, 22 and 24).

Mission Concrete Co. 270 Turk St., \$7,893 (on Bldg. No. 22).

Scott Co. 243 Minna St., \$5,040 (on Bldg. No. 5) \$12,925 (on Bldg. No. 24).

Heating
Mechanical Contracting Co. 83 Shipley St., \$4,660.

Electrical Wiring
G. H. Armstrong, 2890 Howard St., \$8,374 (Ward Bldgs. Nos. 5, 22 and 24; recommended to Washington for award).

WASHINGTON, D. C.—Bids are being received by Bureau of Supplies & Accounts, Navy Department, Washington, D. C., to furnish and deliver miscellaneous supplies and equipment as noted in the following schedules, further information being available from the Navy Department Officer, 100 Harrison St., San Francisco:
Bids Open Aug. 26

Mare Island, 1 motor truck; sch. 3896.

Eastern yards, approx. 165,900 pts. liquid metal polish; San Diego, 15,700 pts. do; sch. 3900.

Mare Island, rubber pump valves; sch. 3855.

Western yards, rubber packing and gaskets; sch. 3852.

Eastern and western yards, bolts, brackets, catches, clips, handles, hasps, hooks, coat and hat; door knobs, drawer pulls, curtain rings, stencils, and key tags; sch. 3881.

Mare Island, 1200 ft. brass chain; sch. 3899.

Western yards, electric cable and wire; sch. 3909.

Western yards, muriatic, nitric and sulphuric acid; sch. 3750.

Mare Island, 10,000 lbs. dry cuprous oxide; sch. 3930.

Mare Island and Puget Sound, pressure and vacuum gages; sch. 3933.

Puget Sound, 2 laundry washing machines, 1 extractor, 1 drying tumbler, 2 laundry presses, 1 flat-work ironer, 1 starch cooker, 1 ironing board, and 1 stationary tub; sch. 3902.

Western yards, mineral oil (kerosene); sch. 3914.

KEYPORT, Wash.—Following bids received by Bureau of Yards & Docks, Navy Department, under Specification No. 6209, for painting 4 steel radio towers at Naval Radio Station, Keyport, Wash.:

Clay Spray Painting Co., 6006 6th St. N. E., Seattle, \$3800.

N. C. Nelson, Inc., 853 Broadway, New York City, \$4747.

American Sand Blasting and Painting Co., Dormant station, Pittsburgh, \$5200.

T. A. Tsuris & Co., 3279 Park View Ave., Pittsburgh, \$5900.

Central Contracting Co., Pittsburgh, \$7000.

Seattle Structural Painting Co., 4318 W. 2nd St., Seattle, \$6950.

Charles Dickens, 1915 N. Proctor St., Tacoma, Wash., \$9625.

Shinn Co., 526 E 6th St., Olympia, Wash., \$11,355.

STOCKTON, San Joaquin Co., Cal.—Until August 18, 3 P. M., under Circular Proposal No. 31-39, Specifications No. 2287, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, to clear brush and trees from certain areas along the San Joaquin river between Turners Cut and Criminal Point, about 8½ miles and 16½ miles respectively, below Stockton. Specifications and further information obtainable from above.

CRESCENT CITY, Del Norte Co., Cal.—Until August 27, 11 A. M., under

Specification No. 6260, bids will be received by Public Works Officer, Mare Island Navy Yard, for maintaining road to U. S. Naval Hydrographic Station at Point St. George, Crescent City. Specifications obtainable from Commandant at the Mare Island Navy Yard.

PHOENIX, Ariz.—Until August 25, 2 P. M., bids will be received by Jno. B. Brown, superintendent, U. S. Indian School, Phoenix, to furnish and deliver one sliding head sensitive drill so constructed as to accurately and quickly drill holes from 6 to ½ inch in mild steel. Further information obtainable from above.

Surveys Being Made.
RECONSTRUCTION Cost, \$75,000
OAKLAND, Alameda Co., Cal. Appraisers Building.
Reconstruct Appraisers Building.
Owner—United States Government.
Architect—Wm. A. Newman, Main Post Office Bldg., San Francisco.

SACRAMENTO, Cal.—Until August 18, 3 P. M., under Order No. 2261, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish, deliver and place rip-rap stone along the Sacramento river, in the vicinity of Chicory Bend. Specifications and further information obtainable from above.

SACRAMENTO, Cal.—Until August 19, 2 P. M., under Order No. 2297-1651, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver Rio Vista, Solano County:

8000 ft. wire rope, modified Seales construction, high grade plow steel ¾-in. dia. hemp center, 6 strands, 19 wires to strand; to be in 3 pieces, each 1000 ft. lon, each piece on individual reel.

1000 ft. wire rope, Warrington construction, plow steel, ½-in. dia., hemp center, 6 strands, 19 wires to strand; in one piece on reel.

Further information obtainable from above.

Bids Opened.
MARBLE WORK Cost, \$—
SAN FRANCISCO. The Presidio.
Tiling and marble work in Cystoscopic room and two toilet rooms at Letterman General Hospital.
Owner—U. S. Government.
Architect—Constructing Quartermaster, Fort Mason.

Following is a complete list of bids: Prop. No. 1 Cystoscopic room; (2) toilet room in Ward No. 26; (3) toilet room in Ward No. 4.

Meda Art Tile Co., 1735 San Bruno Ave., (1) \$500; (2) \$1120; (3) \$739.

Malott & Peterson, (1) \$567; (2) \$1-075; (3) \$705.

Art Tile & Mantel Co., (1) \$667; (2) \$1330; (3) \$890.

Mangrum-Holbrook Co., (1) \$755; (2) \$1420; (3) \$997.

Levey Bros. Tile Co., (1) \$787; (2) \$1454; (3) \$959.

Bids held under advisement.

HALLS AND SOCIETY BUILDINGS

Plans To Be Prepared.
MEMORIAL HALL Cost, \$—
SANTA CRUZ, Santa Cruz Co., Cal.

American Legion Memorial Hall.

Owner—County of Santa Cruz, H. E. Muller, County Clerk.

Architect—Not Yet Selected.

The county supervisors have voted to increase the tax rate to provide funds to finance this construction.

Sub-Contracts Awarded.
MEMORIAL HALL Cost, \$—
EUREKA, Humboldt Co., Cal. 11 St.
 bet. Tenth and Eleventh Sts.
 One-story and basement concrete Vet-
 erans' Memorial Hall (140x98-ft.)
 Owner—County of Humboldt.
 Architect—Newton Ackerman, 103 W
 Fourth St., Eureka
 Contractor—Mercer - Fraser Company,
 Eureka
Linoleum—D. N. & E. Walter Co., 562
 Mission St., San Francisco.
Sheet Metal—Harris Sheet Metal Wks
 Eureka.
Reinforcing Steel—Eureka Boiler Wks
 Eureka.
Structural Steel—Judson - Pacific Co.,
 609 Mission St., San Francisco.
Mill Work—Geo. C. Jacobs Co., Eu-
 reka.
Plastering—M. E. Cookson, Eureka.
Painting—Nelson Bros., Eureka.
Metal Windows—Michel & Pfeffer,
 Harrison and 10th Sts., San Fran-
 cisco.
Terrazzo Floors—Oakland Concrete &
 Terrazzo Co., 2227 Market Street,
 Oakland.

Plans To Be Prepared.
MEMORIAL HALL Cost, \$—
WATSONVILLE, Santa Cruz Co., Cal.
 American Legion Memorial Hall.
 Owner—County of Santa Cruz, H. E.
 Miller, County Clerk.
 Architect—Not Yet Selected.
 The county supervisors have voted to
 increase the tax rate to provide
 funds to finance this construction.

Date Of Opening Bids Postponed Un-
 til August 25, 12 Noon.
GYMNASIUM Cost, \$35,000
VALLEJO, Solano Co., Cal York
 and Santa Clara Streets.
 One-story rough brick, stucco or brick
 tile gymnasium (90x56 feet).
 Owner — Naval Y. M. C. A. (H. E.
 Cunningham, Manager), Vallejo.
 Architect—Eng. Dept. of Owner, New
 York.
 Supt. of Constr.—W. A. Jones, Vallejo
 Bids are being received on three
 propositions, i. e. rough brick, stucco
 and brick tile. Plans obtainable from
 H. E. Cunningham, Mgr., Naval Y.
 M. C. A., Vallejo.

Date Of Opening Bids Postponed
 Until August 15.
RECREATION BLDG. Cost, \$100,000
SANTA CRUZ, Santa Cruz Co., Cal.
 Two-story reinforced concrete rec-
 reation building (swimming pool,
 bowling alleys, etc.)
 Owner—Interstate Recreation Corp.,
 Ltd., J. B. Munjar, Phelan Bldg.,
 San Francisco, president.
 Architect—Joseph L. Stewart, Federal
 Reserve Bank Bldg., San Fran-
 cisco.
 As previously reported wrecking
 awarded to Dolan Bros. Wrecking Co.,
 San Pablo Ave. and Ashby St., Ber-
 keley.

Plans To Be Prepared.
MEMORIAL BLDG. Cost, \$65,000
SAN LUIS OBISPO, San Luis Obispo
 Co., Cal.
 Veterans' Memorial Building.
 Owner—County of San Luis Obispo.
 Architect—Not Yet Selected.
 Funds to finance erection of this
 structure will be provided in the 1930-
 31 budget.

HOSPITALS

SAN FRANCISCO—Until August 25,
 3 P. M., under proposal No. 622, bids
 will be received by Leonard S. Leavy,
 city purchasing agent, 270 City Hall,
 to furnish and deliver X-ray equip-
 ment for San Francisco Hospital.
 Further information obtainable from
 above office.

Bids Opened.
KITCHEN Cost, \$—
WHITTIER, Los Angeles Co., Cal.
 Kitchen and Commissary Building at
 Whittier State School.
 Owner—State of California.
 Architect—State Department of Pub-
 lic Works, Division of Architec-
 ture, Public Works Bldg., Sacra-
 mento.

The structure will be one-story and
 part basement, of concrete, brick and
 frame construction, with interior par-
 titions of hollow tile, wood floor con-
 struction and tile roof. Total floor
 area of 12,500 square feet

Following is a complete list of bids
 received:

General Work
 Adolph G. Schmid, Santa Ana, \$53,260
 R. J. Chute Co., Los Angeles, 54,904
 A. I. Perkinson, Inc., 54,947
 L. A. Geisler, 55,533
 H. E. Knauer, 57,787
 J. F. Cobler, 57,987
 H. Mayson, Long Beach, 58,702
 Orosel & Kitchen, Ltd., 60,389
 Campbell Constr. Co., Sacto., 60,960
 Modern Constr. Co., 62,000
 Hunter & Lipman, 62,233
 Mead Constr. Co., 68,983

Electrical Work
 R. R. Jones Elec. Co., 11525
 American Elec. Constr. Co., 2714
 W. H. Smith, Long Beach, 2800
 Newbery Elec. Corp., 3168

Heating and Ventilating
 S. B. Jones, 38178
 W. P. McArthur, 3822
 Hickman Bros., Inc., 4435
 W. H. Smith, 8640
 Thomas Haverly, 8801
 Pacific Pipe & Supply Co., 8902
 Howe Bros., 9150
 Foss Heating & Sheet Metal Co., 9927

Mechanical Work Complete
 W. H. Smith, Long Beach, \$11,200
 Bids held under advisement.

SAN FRANCISCO—Until August 25,
 3 P. M., under Proposal No. 623, bids
 will be received by Leonard S. Leavy,
 city purchasing agent, 270 City Hall,
 to furnish and deliver tables and
 lockers for Laguna Honda Home.
 Specifications obtainable from above.

Plans Being Figured—Bids Close
 August 27, 11 A. M.
DIET KITCHEN Cost, \$—
AIWAHNEE, Madera Co., Cal.
 Construct diet kitchen and remodel
 present kitchen
 Owner—Tri-County Tuberculosis San-
 atorium.
 Engineer — W. E. Bedesen, Shaffer
 Bldg., Merced.
 Bids are being received by V. D.
 Whitmore, chairman of the Tri-
 County Tuberculosis Sanatorium Com-
 mittee of Madera, Merced and Stanis-
 laus Counties, at the Courthouse,
 Merced, August 27. Certified check
 10% payable to chairman required
 with bid. Plans on file in the office of
 the county clerks at Madera, Merced
 and Modesto and at the sanatorium
 at Ahwahnee and obtainable from the
 engineer on deposit of \$10, return-
 able.

Contract Awarded.
HOSPITAL Cost, \$600,000
SAN BERNARDINO, Calif. Highland
 and Waterman Aves.
 Five-story class A reinforced concrete
 hospital (200x200-ft.)
 Owner—Sisters of Charity.
 Architect—J. E. Loveless, Robertson
 Bldg., Beverly Hills.
 Contractor—Frank J. Solt, California
 Hotel, San Bernardino.
 Plans call for stucco exterior, rein-
 forced concrete construction, art stone
 exterior trim, steel and wood floors,
 three electric elevators, electric food
 conveyors, cement and wood floors,

reinforced concrete slab roof covered
 with hand-made tile, steam heating,
 tile and marble work, ventilating sys-
 tem, etc. There will also be a three-
 story, reinforced concrete chapel and
 convent. It will be 100x100 feet in
 area. Excavation work will start Aug.
 18.

WINSLOW, Ariz.—Dr. J. J. Warner
 medical director of the United States
 Indian Service for the Southwest, has
 approved site for \$250,000 tubercular
 sanitarium for Navajo Indians.

Contracts Awarded.
ALTERATIONS Cost, \$—
OAKLAND, Alameda Co., Cal.
 Alterations and minor additions to
 Detention Home.
 Owner—County of Alameda.

Architect—Henry H. Meyers, Kohl
 Bldg., San Francisco.
 Contract for alterations and addi-
 tions awarded to John E. Branagh,
 Midcrest and Sunnyhills Roads, Oak-
 land, at \$1573.

Contract for iron work awarded to
 Pacific Iron Works, 1155 67th St.,
 Oakland, at \$2845.

Following bids were received:

Alterations—J. E. Branagh, \$1573; E.
 T. Letter & Son, \$1687; Geo. J.
 Maurer.
Iron Work—Pacific Iron Works, \$2845;
 C. Frauneder, \$3450.

Plans Being Figured—Bids Close Aug.
 18, 4 P. M.
LAUNDRY EQUIPT. Cost, \$—
PALO ALTO, Santa Clara Co., Cal.
 Stanford University Campus.
 Furnish and install laundry equip-
 ment for Hospital.

Owner — City of Palo Alto, E. L.
 Beach, City Clerk.
 Architects and Engineers — Reed &
 Corlett, 1801 Oakland Bank Bldg.,
 Oakland.

Certified check 10%, payable to City
 of Palo Alto required with bid. Spec-
 ifications obtainable from architects
 on deposit of \$10, returnable.

Plans Being Figured—Bids Close Aug.
 18, 4 P. M.
KITCHEN EQUIPMENT Cost, \$—
PALO ALTO, Santa Clara Co., Cal.
 Stanford University Campus.
 Furnish and install kitchen equipment
 in Hospital.
 Owner — City of Palo Alto, E. L.
 Beach, City Clerk.
 Architects and Engineers — Reed &
 Corlett, 1801 Oakland Bank Bldg.,
 Oakland.

Certified check 10% payable to City
 of Palo Alto required with bid. Spec-
 ifications obtainable from architects
 on deposit of \$10, returnable.

Plans Being Completed.
HOSPITAL Cost, \$300,000
STOCKTON, San Joaquin Co., Calif.
 Class A brick or concrete county gen-
 eral hospital.
 Owner—County of San Joaquin.
 Architect—Fred. H. Meyer, 742 Mar-
 ket St., San Francisco.
 Consulting Architects—Davis - Pearce
 Co., Grant and Weber Sts., Stock-
 ton.
 Bids will be advertised for in ten
 days.

Preliminary Plans Prepared.
HOSPITAL Cost, \$100,000
LOS ANGELES, Cal. No. 1044 N.
 Mariposa Avenue.
 Two-story Class A reinforced con-
 crete maternity hospital (45x140)
 Owner—St. Vincent's Maternity Home
 Architect—M. L. Barker and G. Law-
 rence Ott, 346½ S. La Brea Ave.,
 Los Angeles.

Grading Under Way.
HOSPITAL. Cost, \$75,000
CRESCENT CITY. Del Norte Co., Cal.
 Ocean Shore Drive at Battery Pt.
 Two-story 20-bed reinforced concrete
 class C hospital, 70x150 ft.
 Owner—G. O. Knapp, Crescent City.
 Architect—Martin Sheldon, 950 Mo-
 nacnock Bldg., San Francisco.
 Consulting Architect—Carleton Win-
 slow.
 Contractor—Mercer-Fraser Co., Eu-
 rekka.
 The X-ray equipment contract has
 been awarded to the Bush Electric
 Corp., 909 Hyde St., San Francisco.

Preparing Plans.
NURSES' HOME. Cost, \$350,000
LOS ANGELES. Cal. General Hos-
 pital Site.
 Class A reinforced concrete nurses'
 home (Italian type).
 Owner—County of Los Angeles.
 Architect—Karl Muck, County Archi-
 tect, Los Angeles.

When bids are taken, contracts
 will be let on general including paint-
 ing, plastering, plumbing and heat-
 ing, electric wiring, electric fixtures,
 ventilating and incinerator. Preparation
 of grounds, etc., costing \$16,000.

Preliminary Plans Being Prepared.
HOSPITAL. Cost, \$40,000
KING CITY. Monterey Co., Cal.
 Hospital (14-bed capacity).
 Owner—King City Hospital Assn.
 Architect—H. Bruce Douglas, Green-
 field.

Will consist of two wards, each
 with capacity of four beds, and six
 private rooms, each with bath and
 toilet; X-ray room, obstetrical room,
 kitchen, etc.
 Plans will be ready for bids in
 thirty days.

RENO, Nevada.—Petitions are be-
 ing circulated seeking proposal to
 place the proposed community hos-
 pital project on the general election
 ballot. The Washoe County interests
 back of the proposal seek erection of
 a 250-bed capacity hospital. Dr. J.
 La Rue Robinson of Reno, is chair-
 man of the committee circulating the
 petitions.

Additional Sub-Contracts Awarded.
ADDITION. Cost, \$650,000
SAN FRANCISCO. Fell St. and Baker
 Street.

Addition to present Class A hospital.
 Owner—Southern Pacific Railroad Co.,
 65 Market St., San Francisco.

Architect—Alfred I. Coffey and Mar-
 tin J. Rist, Phelan Bldg., San
 Francisco.

Contractor—Barrett & Hlip, 918 Har-
 rison St., San Francisco.

**Steel Lockers—Worley & Co., 39 Na-
 toma St., San Francisco.**

**Sheet Metal—Gulley Corbin Works,
 1234 Howard St., San Francisco.**

**Roofing—Jones Bros. Roofing Co., 270
 Second St., San Francisco.**

HOTELS

Contract Awarded.
HOTEL & APTS. Cost, \$14,000
WESTLEY. Stanislaus Co., Cal. The
 Highway.

Two-story hollow tile and pressed
 brick hotel and apts. (36x100-ft.);
 lunch counter, soda fountain, bar-
 ber shop and pool hall.

Owners—E. L. Fink & Walfrid Knut-
 son, Westley.
 Architect—None.
 Contractor—Walfrid Knutson, West-
 ley.

WEED, Siskiyou Co., Cal.—Weed
 Hotel, a four-story brick structure,

was partially destroyed by fire Au-
 gust 11. The loss is estimated at
 \$25,000. Structure is owned by Horace
 Weed.

Contract Awarded.
HOTEL. Cost, \$23,000
WATSONVILLE. Santa Cruz Co., Cal.
 Peck Street.

Two-story reinforced concrete and
 hotel.

Owner—A. Faustina, 134 Naples St.,
 Watsonville.

Architect—A. W. Story, Pajaro Valley
 Bank Bldg., Watsonville.
 Contractor—T. H. Rosewall, Watson-
 ville.

Will have gas heating system, as-
 bestos roofing.

Plans Completed.
HOTEL. Cost, \$—
PASADENA. Los Angeles Co., Cal.
 Eight-story Class A hotel.
 Owner—Del Vista Hotel Company.
 Engineer—C. H. Brazel, Room 610,
 251 Kearny St., San Francisco.

POWER PLANTS

Plans Being Prepared.
POWER HOUSE. Cost, \$40,000
SAN FRANCISCO. Third Avenue and
 Parnassus St.
 One-story steel frame and concrete
 power house.
 Owner—University of California.
 Architect—Wm. C. Hays, Crocker 1st
 National Bank Bldg.

PITTSBURG. Contra Costa Co., Cal.
 —Electric Machinery Mfg. Co., Min-
 neapolis, Minn. (C. H. Henderson,
 district representative, Call Bldg.,
 San Francisco), awarded contract by
 Shell Chemical Company to furnish
 and install motor and control equip-
 ment in \$3,000,000 plant now in course
 of construction at Shell Point, near
 Pittsburg. The installation will com-
 prise: three 600-hp., 128 RPM, four
 1000-hp., 128 RPM, two 700-hp., RPM
 and two 200-hp., 600 RPM, synchron-
 ous motors; two 100-KW., 1200 RPM,
 synchronous motor generator sets;
 one 24-panel switchboard.

Painting Contract Awarded.
STATION. Cost, \$50,000
POINT REYES. Marin Co., Cal.
 One-story reinforced concrete radio
 receiving station.
 Owner—Radio Corp. of America.
 Engineer—C. H. Snyder, 251 Kearny
 St., San Francisco.
 Contractor—Lindgren & Swinerton,
 Inc., 225 Bush St., San Francisco.
 Painting—Raphael Co., 270 Tehama
 St., San Francisco.

Plans Being Completed.
POWER HOUSE. Cost, \$30,000
MODESTO. Stanislaus Co., Cal.
 Stanislaus County Hospital.
 Two-story reinforced concrete and
 hollow tile power house (unit 3).
 Owner—County of Stanislaus.

Architect—Russell Guerne De Lappe,
 1710 Franklin St., Oakland
 Bids will be advertised for either
 August 20th and 25th.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

Plans Being Figured—Bids Close Aug.
 29th.

COTTAGE, ETC. Cost, \$20,000
SACRAMENTO. Sacramento Co., Cal.
 Suttersville Road (Sacramento Or-
 phanage and Children's Home).

One 2-story frame cottage and one-
 story brick laundry, 28x50 ft., and
 boiler room.

Owner—City of Sacramento.
 Architect—Dean and Dean, California
 State Life Bldg., Sacramento.

Cottages will contain dining room,
 kitchen, porch, laundry, bedroom, sew-
 ing room and living room on the first
 floor and two dormitories, four dress-
 ing rooms, two bathrooms and quar-
 ters for the house mother on the sec-
 ond floor.

SALINAS. Monterey Co., Cal.—
 Until September 2, 10 A. M., bids will
 be received by C. F. Joy, County
 Clerk, to construct 3-cell jail build-
 ing at Gonzales in Supervisor District
 No. 3. Plans obtainable from County
 Surveyor Howard Cozzens on deposit
 of \$10, returnable.

OAKLAND. Alameda Co., Cal.—Fol-
 lowing is a complete list of the bids
 received by city clerk to furnish and
 install steel shelving, counters and
 cabinets for Municipal Garage:
 C. J. Hillard Co., 19th and Min-
 nesota Sts., San Francisco.....\$ 940
 Kolyer Motor Sales Co.....\$ 770
 Trask & Squire Co.....\$ 932
 W. E. and W. H. Jackson.....1,075
 Yawman & Erbe.....1,689
 David Lupton Sons Co.....1,250
 Bids held under advisement.

SALINAS. Monterey Co., Cal.—City
 council has voted in favor of using
 park property on which to erect a
 combination civic auditorium, firehouse
 and state army headquarters build-
 ing. The state has already appropriat-
 ed \$35,000 for army construction in
 Salinas and an additional \$15,000 is
 expected.

Plans Being Figured—Bids Close Au-
 gust 27, 10 A. M.

LIBRARY. Cost, \$—
BERKELEY. Alameda Co., Cal. SW
 Shattuck Ave. and Kittredge St.
 Furnish and install furnishing and
 technical equipment for new Main
 Public Library.
 Owner—City of Berkeley, Florence E.
 Turner, City Clerk.

Architect—James W. Plache, Mer-
 cantile Trust Bldg., Berkeley
 Certified check 10% payable to city
 required with bid. Plans obtainable
 from architect on deposit of \$10, re-
 turnable.

HAYWARD. Alameda Co., Calif.—
 City council has requested C. W.
 White, city attorney, to determine if
 the council must advertise for bids to
 complete the city hall in accordance
 with plans and specifications. The con-
 tract for the city hall, embracing the
 ground floor and two stories, are now
 being completed under contract with
 Fred J. Westlund, 625 40th St., Oak-
 land, who was awarded the work on
 a bid of \$65,840. The city council has
 approximately \$37,000 on hand to com-
 plete the structure. It seeks legal ad-
 vice as to whether the additional work
 could be given to Westlund under the
 old contract or if it is necessary to
 ask bids. E. P. Whitman, architect,
 Hayward.

Plans Being Figured—Bids Close Au-
 gust 30, 9-30 A. M.

JAIL EQUIPMENT. Cost, \$—
HALESBORO. Oregon.
 Jail equipment for Washington County
 Jail.

Owner—County of Washington.
 Architect—Orin R. W. Haggack, 1231
 Terminal Sales Bldg., Portland.

Bids are wanted under Proposal
 No. 1 to be complete and all in ac-
 cordance with plans and specifica-
 tions. Proposal No. 2 to be same as
 No. 1, except omit Portable Padded
 Insane Cell. Proposal No. 3 to be
 same as No. 1, except omit all work
 on Three Cell Unit. Certified check
 10% payable to Treasurer of Wash-
 ington County required with bid.
 Plans obtainable from architect on

deposit of \$10, checks for same to be made payable to Treasurer of Washington County.

Plans Being Figured—Bids Close Aug. 25, 8 P. M.
LIBRARY Cost, \$65,000
BURLINGAME, San Mateo Co., Cal.
One-story concrete library (tile roof).
Owner—City of Burlingame, J. R. Murphy, city clerk.

Architect—E. L. Norberg, 580 Market St., San Francisco.
Plumbing, steam heating and stack b'ids will be taken separately.

Certified check 10% payable to mayor of city required with bid. Plans obtainable from the San Francisco office of the architect or the Burlingame office, 407 Occidental Ave., on deposit of \$25, returnable.

Contract Awarded.
LIBRARY Cost, \$—
BERKELEY, Alameda Co., Cal. Shattuck Ave. and Kittridge St.
Furnish and install electric fixtures in public library.
Owner—City of Berkeley, Florence E. Turner, City Clerk.
Architect—James W. Plachek, Mercantile Bank Bldg., Berkeley.

Maxwell Hardware Co., 1320 Washington St., Oakland, at \$6990 awarded

RESIDENCE

Plans Being Prepared.
RESIDENCES Cost, \$5000 each
SAN MATEO, San Mateo Co., Cal.
Opposite Curtis Wright Airport.
Group of 50 one-story frame and stucco residences (5 rooms each).
Owner and Builder—Castle Bldg. Co., 830 Market St., San Francisco.
Plans by Russell Coleman, 1924 Broadway, Burlingame.

Contract Awarded.
ALTERATIONS Cost, \$1325
SAN JOSE, Santa Clara Co., Cal.
No. 1251 Yosemite St.
Alterations to present residence
Owner—Dr. R. S. Kneeshaw, San Jose.

Architect—Wolfe & Higgins, Realty Bldg., San Jose.
Contractor—F. Di Fiore, San Jose.
Painting—G. W. Guth, San Jose, at \$235.
Plumbing—O. C. McDonald, San Jose, at \$445.

Plans Being Figured.
RESIDENCE Cost, Approx. \$15,000
HILLSBOROUGH, San Mateo Co.
Two-story and basement frame and stucco residence.
Owner—T. J. Hallinan.
Architect—Ed. Mussen Sharpe, 523 Market St., San Francisco.
Oswald & Rucker, Mills Bldg., San Francisco, are the only contractors submitting a figure.

Contract Awarded.
RESIDENCE Cost, \$10,000
SAN FRANCISCO W Fourteenth Ave S Vicente St.
Two-story and basement frame and stucco residence.
Owner—D. Carlin, 180 Dolores St., San Francisco.
Plans by C. M. Baker, 155 Montgomery St., San Francisco.
Contractor—P. J. Phelan, 646 20th Ave., San Francisco.

COTTAGES Cost each, \$5000
PLEASANTON, Alameda Co., Cal.
Twenty 1-story frame cottages.
Owner—Castlewood Country Club.
Architect—E. T. Poulkes, 357 12th St., Oakland.
Contractor—Ben Kopf, 845 Pacific St., Oakland.

Contract Awarded.
RESIDENCE Cost, \$20,000
HILLSBOROUGH, San Mateo Co.
Two-story frame and stucco residence
Owner—Withheld.
Architect—James Mitchell, 369 Pine St., San Francisco.
Contractor—C. H. Bessett Bldg. Co., 826 Walnut St., San Francisco.

Contract Awarded.
Plans Being Prepared.
RESIDENCE Cost, \$20,000
SAN JOSE, Santa Clara Co., Cal.
Two-story and basement frame and stucco residence.
Owner—T. W. MacQuarrie, 309 S 8th St., San Jose.
Architect—Binder & Curtis, 35 W San Carlos St., San Jose.
Bids will be taken in about 2 weeks.

Plans Being Prepared.
RESIDENCE Cost, \$15,000
SAN JOSE, Santa Clara Co., Cal.
Two-story and basement frame and stucco residence.
Owner—M. Postlewaith, 444 S 15th St., San Jose.
Architect—Binder & Curtis, 35 W San Carlos St., San Jose.
Plans will be ready for bids in two weeks.

Plans Being Prepared.
COTTAGE Cost, \$5000
BOHEMIAN GROVE, Sonoma County, Cal.
One-story frame and redwood shakes cottage (7 rooms).
Owner—Supt. of Bohemian Grove.
Architect—Ben G. McDougall, 353 Sacramento St., San Francisco.
Work will be done by owners.

Contract Awarded.
RESIDENCE Cost, \$60,000
ROSS, Marin Co., Calif.
Two-story brick residence.
Owner—Norman Livermore, 85 2nd St., San Francisco.
Architect—Bakewell and Weihe, 251 Kearny St., San Francisco.
Engineer—Atkins and Parker, Hobart Bldg., San Francisco.
Contractor—Young & Horstmeier, 461 Market St., San Francisco.

Preliminary Plans Completed
RESIDENCE Cost, \$35,000
STOCKTON, San Joaquin Co., Cal.
Five miles outside city limits.
Two-story and basement concrete residence (10 rooms; Italian type).
Owner—J. C. Mariano.
Architect—Enri Cavasso, Balvoich Bldg., San Mateo, and Stockton
Bids will be taken in about three weeks.

Sub-Bids Being Taken.
RESIDENCE Cost, \$7250
SAN FRANCISCO. Eighteenth Ave. near Lawton Street.
One-story and basement frame and stucco residence (5 rooms).
Owner and Builder—A. Halsen, 2427 Twenty-fifth Ave., San Francisco.
Plans by D. E. Jaekle, Call Bldg., San Francisco.

Sub-Bids Being Taken.
RESIDENCE Cost, \$12,500
SAN FRANCISCO. Monterey Blvd
Two-story frame and stucco residence (10 rooms, 3 baths).
Owner & Builder—G. W. Stanley, 467 Turk St., San Francisco.
Plans by D. E. Jaekle, Call Bldg., San Francisco.

To Be Done By Day's Work By Owner
RESIDENCES Cost each, \$10,000
SAN FRANCISCO. S Marina Blvd. W Broderick St.
Two 2-story and basement frame and stucco residences.
Owner—Ridson Bros., 2170 Beach St.
Plans by Owners.

Contract Awarded.
RESIDENCE Cost, \$22,000
SAN FRANCISCO. Jackson & Cherry.
Two-story and basement frame and stucco residence.
Owner and Builder—Mrs. Starr Bruce, 3055 Pacific Ave.
Architect—Morris M. Bruce, 859 Flood Building.
Contractor—Geo. Arthur, care owner.

Plans Being Prepared.
RESIDENCE Cost, \$7500
OAKLAND, Alameda Co., Cal. 81st Avenue near E 14th St.
One-story and basement frame and stucco residence.
Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.
Architect—H. A. Minton, Bank of Italy Bldg., San Francisco.

Sub-Contracts Awarded.
RESIDENCE Cost, \$318,868
HILLSBOROUGH, San Mateo Co., Cal.
Two-story and basement reinforced concrete residence.
Owner—W. W. Crocker, Crocker First National Bank Bldg., San Francisco.
Architect—Arthur Brown, Jr., 251 Kearny St., San Francisco.
Contractor—George Wagner, Inc., 181 South Park, San Francisco.
Plumbing—O'Mara and Stewart, 218 Clara St., San Francisco.
Heating—Higgins & Kraus, 730 Tehama St., San Francisco.
Electric Work—Kuchel and Seever, 468 5th St., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$12,000
SAN MATEO, San Mateo Co., Cal.
W. Poplar Street.
Two-story frame and stucco residence
Owner—F. F. Burrow, 1136 Laguna St., San Mateo.
Architect—None.
Contractor—G. W. Williams Co., Ltd., 1404 Broadway, San Mateo.

Contract Awarded.
RESIDENCE Cost, \$10,000
SAN MATEO, San Mateo Co., Cal.
Lot 5 Bk 14, Cornell St.
One-story and basement frame and stucco residence.
Owner—David Houle, 162 Grand Ave., San Mateo.
Architect—None.
Contractor—Koppler Bros., % Owner.

Low Bidder.
RESIDENCE Cost, \$9000
ALVARADO, Alameda Co., Cal.
Two-story frame and stucco residence (5 rooms).
Owner—W. D. Wiegman, Alvarado.
Architect—Claude Barton, 522 Grand Ave., Oakland.
Low Bidder—Irwin Reimers, 745 Wala Vista Ave., Oakland.
Contract will be awarded in a few days.

Sub-Bids Being Taken By Owner.
RESIDENCE Cost, \$15,000
SAN MATEO PARK, San Mateo Co., Calif.
Two-story and basement frame and stucco residence (8 rooms, 3 baths)
Owner and Builder—Allan McIntyre, 46 Highland, San Mateo.
Architect—Grimes & Schoening, Balovich Bldg., San Mateo.

Plans Being Completed.
RESIDENCE Cost, \$—
ATHERTON, San Mateo Co., Cal.
Two-story residence.
Owner—Clarence Walter, 562 Mission St., San Francisco.
Architect—H. H. Guttersen, 526 Powell St., San Francisco.
Bids will be called for about Sept. 1.

Plans Being Figured—Bids Close Sept. 15th, 2:30 P. M.

RESIDENCE Cost, \$18,000
SAN RAFAEL, Marin Co., Cal.
Two-story and basement frame and stucco residence (9 rooms, 2 baths)
Owner—Harry Albert, 4th and B Sts., San Rafael.
Architect—S. Helman, 57 Post Street, San Francisco.

Bids are being received by owner in San Rafael.

Sub-Contracts Awarded.
RESIDENCE Cost, \$50,000
PIEDMONT, Alameda Co., Cal.
Two-story and basement frame and stucco residence.

Owner—Herbert E. Hall.
Architect—Clarence Tantau, Shreve Bldg., San Francisco.
Contractor—Charles Stockholm, Russ Bldg., San Francisco.

Plumbing—D. W. Durant, 492 Lake Park Ave., Oakland.
Heating—O'Mara & Stewart, 218 Clara St., San Francisco.

Electric—Spot Electric Co., 2095 Broadway, Oakland.

Contract Awarded.
ALTERATIONS Cost, \$4500
BOLINAS, Marin Co., Cal.
Alterations and additions to one- and part two-story frame and stucco residence.

Owner—Withheld.
Architect—Harris Osborne, Hearst Bldg., San Francisco.
Contractor—Robert Watson, San Anselmo.

Plans Complete.
ALTERATIONS Cost, \$—
PEBBLE BEACH, Monterey Co., Cal.
Alterations to two-story frame and stucco residence.

Owner—C. A. Batchelder, Sr., Pebble Beach.
Architect—W. E. Milwain, Pacific Bldg., Oakland.
Work will be done by day's labor.

Plans Being Figured.
PARISH HOUSE Cost, \$18,000
OAKLAND, Alameda Co., Cal. St. James Road.
Two-story frame and stucco parish house.

Owner—Corpus Christle Parish.
Architect—W. E. Schirmer, 700 21st St., Oakland.

Plans Being Completed.
RESIDENCE Cost, \$18,000
BERKELEY, Alameda Co., Cal. Hawthorne Terrace.

Two-story and basement frame and stucco residence (9 rooms).
Owner—Withheld.
Architect—W. C. Ambrose, 605 Market St., San Francisco.

Bids will be taken about Sept. 1st.

Plans Being Prepared.
RESIDENCES Cost each, \$5000
SAN MATEO, San Mateo Co., Calif.
Six one-story frame and stucco residences (5 rooms each).

Owner and Builders—Castle Building Co., 330 Market St., San Francisco.
Plans by Russell Coleman, 1924 Broadway, Burlingame.

Plans Being Completed.
RESIDENCE Cost, \$15,000
SAN JOSE, Santa Clara Co., Cal.
Two-story and basement frame and stucco residence.

Owner—M. Postleworth, 444 S-15th St., San Jose.
Architect—Binder & Curtis, 35 W-San Carlos St., San Jose.
Bids will be taken in two weeks.

Plans Being Completed.
RESIDENCE Cost, \$20,000
SAN JOSE, Santa Clara Co., Cal.

Two-story and basement frame and stucco residence.

Owner—T. W. MacQuarrie, 309 S-8th St., San Jose.
Architect—Binder & Curtis, 35 W-San Carlos St., San Jose.
Bids will be taken in two weeks.

Contract Awarded.
REMODELING Cost approx, \$6000
LOS GATOS, Santa Clara Co., Cal.
Remodel present frame and stucco residence.

Owner—H. Gottesfeld, Los Gatos.
Architect—Charles McKenzie, Twohy Bldg., San Jose.
Contractor—B. H. Painter, Gordon Ave., San Jose.

Construction Under way.
RESIDENCE Cost, \$12,000
HILLSBOROUGH, San Mateo Co., Cal.
Roblar Road.

Two-story and basement frame and stucco residence (8 rooms).
Owner—T. H. Breeze.
Architect—Willis Polk & Co., 277 Pine St., San Francisco.
Contractor—A. F. and C. W. Matlock, 210 Clara St., San Francisco.

Plans Being Figured.
RESIDENCE Cost, \$7500
OAKLAND, Alameda Co., Cal. 81st Avenue near E-14th St.

One-story and basement frame and stucco residence.
Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.
Architect—H. A. Minton, Bank of Italy Bldg., San Francisco.

Sub-Bids Being Taken.
RESIDENCE Cost, \$7000
MARTINEZ, Contra Costa Co., Cal.
Grand Avenue.

Two-story frame and stucco residence (5 rooms).
Owner and Builder—George Huffman, Martinez.
Architect—F. H. Slocombe, 337 17th St., Oakland.

Manager of Constr.—Mr. Smith, Prem.
Sub-bids are being received by Mr. Smith on the premises.

SCHOOLS

August 8, 1930

Contract Awarded.
HEATING SYSTEM Cost, \$3500
MODESTO, Stanislaus Co., Cal. Washington and Lincoln Schools.
Convert electric heating to steam heating system.

Owner—Modesto School District.
Architect—Davis-Pearce Co., Grant & Weber Sts., Stockton.
Contractor—D. R. Huffman, Modesto, \$3398.

Contract Awarded.
ADDITION Cont. price, \$3585
MODESTO, Stanislaus Co., Cal. Washington Elementary School.

Class C brick and plaster addition to school (tile roof, maple floors, etc.)
Owner—Modesto School District.
Architect—Davis-Pearce Co., Grant & Weber Sts., Stockton.
Contractor—J. L. Ward, Modesto.

Contract Awarded.
CLASSROOMS Cont. price, \$18,245
MODESTO, Stanislaus Co., Cal.
Agricultural unit for high school (2 classrooms, laboratories, and offices).

Owner—Modesto City School Dist. (J. H. Bradley, city superintendent of schools).
Architect—Davis-Pearce Co., Grant & Weber Sts., Stockton.
Contractor—F. Uebels, Ripon.

Bids To Be Taken Aug. 15th—To Be Opened Sept. 1st.

SCHOOL Cost, \$20,000
WHEATLEY, Stanislaus Co., Cal.
One-story class C brick or concrete elementary school (4 classrooms, Spanish type).
Owner—Grayson School District.
Architect—Davis-Pearce Co., Grant & Weber Sts., Stockton.

Bond Election.
SCHOOL Cost, \$105,000
UPPER LAKE, Lake Co., Cal.
One-story reinforced concrete high school.

Owner—Upper Lake Un. High School District.
Architect—William Herbert, Rosenberg Bldg., Santa Rosa.
Bonds to finance construction are to be voted August 30.

Contract Awarded.
HIGH SCHOOL Cont. price, \$5662
COURTLAND, Sacramento Co., Cal.
Alterations and additions to high school.
Owner—Courtland Joint Union High School District, S. Mercer Runyon, Secretary.

Architect—W. E. Coffman, 437 Forum Bldg., Sacramento.
Contractor—M. R. Peterson, 4530 Parker Ave., Sacramento.
Contract not awarded for completion of gymnasium.

Contract Awarded.
COLLEGE SERVICES Contract price, \$17,497
SAN DIEGO, San Diego Co., Cal. State Teachers' College.
Services for State Teachers' College.
Owner—State of California.
Architect—George B. McDougall, State Architect, Public Works Building, Sacramento.
Contractor—H. H. Peterson, San Diego.

Plans Being Figured—Bids Close August 26, 7 P. M.
LIGHTING SYSTEM Cost, \$—
TAFT, Kern Co., Cal.
Install flood lighting system at Athletic Grounds and furnish and install electric lighting fixtures in new shop building.

Owner—Taft Union High School District, H. E. Osburn, Clerk.
Architect—W. H. Weeks, 111 Sutter St., San Francisco.

Certified check 5% payable to Clerk of District required with bid. Plans obtainable from architect and on file in office of the clerk at Taft.

Contract Awarded.
ACADEMY Cost, \$125,000
LOS ANGELES, Cal. Beverly Blvd. and Layton Drive.

Group of military academy buildings (frame, stucco, brick and concrete construction)
Owner—Urban Military Academy, 637 N. Wilcox Ave., Hollywood.
Architect—Harrison B. Travers, Union Insurance Bldg., Los Angeles.
Contractor—Austin Co. of California, 777 E. Washington St., L. A.

Bids Opened.
GARAGE Cost, \$—
GILROY, Santa Clara Co., Cal.
School bus garage.
Owner—Gilroy High School District, E. E. Eustice, Clerk.

Architect—W. H. Weeks, 111 Sutter St., San Francisco, and Bank of Italy Bldg., San Jose.

Foll wing is a complete list of bids received:
John Rksheim \$600
The Minton Co., Mt. View 750
Wm. Radtke, Gilroy 784
Swenson & Co. 788
George Wood 745
Bids held under advisement

Bids Wanted—To Close August 27.
SCHOOL, ETC. Cost, \$84,000
 Los Angeles Co. Swardthorne Ave.
 and Dowdoin Street.
 Two-story Class B brick school and
 one-story brick kindergarten.
 Owner—Palisades School District.
 Architect—A. S. Nibecker Jr., Los
 Angeles.

Plans Being Figured—Bids Close
 September 5, 2 P. M.
BASKET BALL COURT Cost, \$—
COURTLAND, Sacramento Co., Cal.
 Construct basket ball court.
 Owner—Bates Joint Union School
 District, L. C. Peck, Clerk.
 Architect—W. E. Coffman, 437 Forum
 Bldg., Sacramento
 Certified check 10% payable to dis-
 trict required with bid. Plans obtain-
 able from the architect.

Bids Opened.
ALTERATIONS Cost, \$—
GILROY, Santa Clara Co., Cal. West
 Section of City.
 Alterations and additions to gram-
 mar school.
 Owner—Gilroy School District
 Architect—W. H. Weeks, 111 Sutter
 St., San Francisco, and Bank of
 Italy Bldg., San Jose.
 Following is a complete list of bids
 received:
 John Rikhsheim (1) \$5764; (2) \$1367;
 (3) \$—
 The Minton Co., Mt. View (1) \$9046;
 (2) \$1486; (3) \$—
 Wm. Radtke, Gilroy (1) \$9188; (2)
 \$1295; (3) \$—
 Murray & Co. (1) \$—; (2) \$—; (3)
 \$635.
 Bids held under advisement.

Bids To Be Taken In One Week.
CAFETERIA Cost, \$20,000
SAN JOSE, Santa Clara Co., Cal.
 One-story reinforced concrete cafe-
 teria for Woodrow Wilson School.
 Owner—San Jose City School District.
 Architect—W. H. Weeks, Bank of
 Italy Bldg., San Jose.

Plans Being Figured—Bids Close Aug.
 22, 7:30 P. M.
ADDITION Cost, \$—
VISALIA, Tulare Co., Cal.
 Physics laboratory building addition
 to present Science Building.
 Owner—Visalia Un. High School Dis-
 trict, E. E. Baker, clerk.
 Architect—Ernest J. Kump Co., 533
 Rowell Bldg., Fresno.
 Certified check 10% or bidder's bond
 required with bid. Plans obtainable
 from the architect and on file in the
 office of the clerk in the High School
 at Visalia.

SAN FRANCISCO.—Until August 25
 3 P. M., under Proposal No. 620, bids
 will be received by Leonard S. Leavy,
 city purchasing agent, 270 City Hall,
 to furnish and install stage fittings
 and draperies in Roosevelt Junior
 High School. Specifications and fur-
 ther information obtainable from
 above.

Sub-Bids Being Taken.
SCHOOL Cost, \$20,000
YOUNTVILLE, Napa Co., Cal.
 One-story three-classroom hollow tile
 Spanish type school.
 Owner—Yountville School District.
 Architect—Coffman, Sahlberg & Staf-
 ford (W. E. Coffman, architect),
 Forum Bldg., Sacramento, and 3529
 Emerson St., Oakland.
 Contractor—Gaubert Bros., 4735
 Brookdale Ave., Oakland.
 Sub-bids are wanted on all portions
 of the work.

RENO, Nev.—Reno Furnace & Tin
 Shop, Reno, at \$399 awarded contract
 by Reno School District to extend
 heating system in Orvis Ring School

addition. Geo. A. Ferris & Son, ar-
 chitect, Cladinos Bldg., Reno.

Plans Being Figured—Bids Close Aug.
 29, 5 P. M.
SCHOOL Cost, \$35,000
HILLSBOROUGH, San Mateo Co., Cal.
 One-story frame and stucco auditor-
 ium addition and three covered
 passageways connecting buildings
 (tile roof).
 Owner—Hillsborough School District.
 Architect—Willis Polk Co., 277 Pine
 St., San Francisco.
 Warm air and natural gas furnace
 heating is provided; also tile roofing.
 Certified check 10% payable to dis-
 trict required with bid. Plans obtain-
 able from architects on deposit of \$10,
 returnable.

SAN JOSE, Santa Clara Co., Cal.—
 San Jose Heating & Ventilating Co.,
 San Jose, at \$6286 awarded contract
 for providing equipment for steam
 heating of Fine Arts Unit at H'gh
 School.

Contract Awarded.
SCHOOL Cost, \$4500
TRACY, San Joaquin Co., Calif.
 One-room brick veneer addition to
 Jefferson School.
 Owner—Jefferson School District.
 Architect—Ralph P. Morrell, Union
 Bldg., Stockton.
 Contractor—J. R. Leighton, 813 Bed-
 ford Road, Stockton.
 Following is a complete list of bids:
 J. R. Leighton, Stockton.....\$3,245
 Robert Byrle, Stockton.....3,744
 Sam Eyre, Tracy.....3,841

Contract Awarded.
SCHOOL BLDGS. Cost, \$2,427
McFARLAND, Kern Co., Cal.
 First unit of primary building and im-
 provements to present building.
 Owner—McFarland Union Grammar
 School District, H. J. Hendry,
 Clerk.
 Architect—Edwin J. Synmes, Haber-
 felde Bldg., Bakersfield.
 Contractor—R. E. Lewis, Corcoran.
 Following is a complete list of bids:
 R. E. Lewis, Corcoran.....\$12,427
 W. K. Michael, Bakersfield.....12,581
 R. A. Stearns, Delano.....12,830
 Currie & Duglar, Bakersfield.....13,865
 Carl Peterson, Bakersfield.....13,996
 Virgil Young, Bakersfield.....14,275
 Opperman & Hullett Bakersfield 14,332
 Moon & Moon, Bakersfield.....15,360
 C. L. Stanley, Bakersfield.....15,750

RIVERSIDE, Riverside Co., Calif.—
 Following contracts awarded by Ra-
 gents of the University of California
 for the construction of a reinforced

concrete chemical building and inse-
 cinary on the Riverside campus of the
 University of California:

General Work (Chemical Bldg.)
 VanRensselaer and Isham, Los
 Angeles.....\$46,635
General Work (Insectary Bldg.)
 Carpenter Bros., Los Angeles.....\$15,590
Mechanical Work (Both Bldgs.)
 Thomas Haverly Co., L. A.....\$32,990
Electrical Work (Both Bldgs.)
 H. H. Walker Co., L. A.....\$8,467
Equipment and Furnishing
(Chemical Bldg.)
 E. H. Seldon & Co.....\$20,522
 G. Stanley Wilson, architect, 3646 W
 Ninth St., Riverside.

Plans Being Figured—Bids Close Sept.
 6th.
ADDITION Cost, \$—
MONTEREY, Monterey Co., Cal.
 Shop addition, tennis courts, grading
 girls' playground at high school.
 Owner—Monterey High School Dist.
 Architect—Swartz & Ryland, Spazier
 Bldg., Monterey; 373 Main St., Sa-
 llnas, and Brix Bldg., Santa Cruz.
 Plans are to be approved August 9,
 and bids will be opened Sept. 6.
 This work will comprise the first
 unit of improvements to be undertak-
 en under the recently authorized bond
 issue.

Bids To Be Asked Shortly.
GYMNASIUM Cost, \$165,000
REDONDO BEACH, Los Angeles,
 Cal., Dianon and Ilona Sts.
 Reinforced concrete gymnasium and
 shop.
 Owner—Redondo Beach Union High
 School District
 Architect—Allison & Allison, Califor-
 nia Reserve Bldg., Los Angeles.

Plans Being Figured—Bids Close Sept.
 2nd, 8 P. M.
SCHOOL Cost, \$250,000
SAN JOSE, Santa Clara Co., Cal.
 Two-story reinforced concrete junior
 high school (Herbert Hoover Jr.
 High School).
 Owner—San Jose City School District.
 Architect—W. H. Weeks, Bank of
 Italy Bldg., San Jose.

Contract Awarded.
SCHOOL Cont. Price, \$34,977
SIERRAVILLE, Sierra Co., Cal.
 One-story reinforced concrete school
 6 classrooms).
 Owner—Sierraville School District.
 Architect—Chester Cole, First Na-
 tional Bank Bldg., Chico.
 Contractor—David Nordstrom, 15
 Nace Street, Oakland.

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IRON
WIRE

Fence and Gates

TENNIS COURT ENCLOSURES
WIRE SCREENS AND GUARDS

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Plans Being Figured—Bids Close Sept.

2nd, 8 P. M.
CAFETERIA Cost, \$20,000
SAN JOSE, Santa Clara Co., Cal.
 One-story reinforced concrete cafeteria for Woodrow Wilson School.
 Owner—San Jose City School District.
 Architect—W. H. Weeks, Bank of Italy Bldg., San Jose.

BERKELEY, Alameda Co., Cal.—Anderson Co., Los Angeles, at \$4500 awarded contract for installation and reupholstering sinks for the Life Science Building, Berkeley.

Prospective Bidders.

SCHOOL Cost, \$15,000
EMERYVILLE, Alameda Co., Cal. 61st St. and Doyle Ave.
 One-story brick elementary school (4 rooms).

Owner—Emeryville School District.
 Plans by S. Arnold, High School, Emeryville.

Following is a partial list of the contractors who have secured plans.

J. J. Grodem & Co., 1028 San Antonio, Alameda.

E. T. Lesure, 78 Ross Circle, Oakland.

N. H. Sjoberg, Call Bldg., San Francisco.

E. T. Leiter & Son, 811 37th St., Oakland.

Fred J. Westlund, 625 40th Street, Oakland.

Emil Person, 829 San Luis Road, Oakland.

J. P. Bishop, 587 Athol, Oakland.

Mutual Building Company.

George Swanstrom, 1723 Webster St., Oakland.

As previously reported, bids are to be opened August 19th at 4 P. M.

Bids Rejected.

ALTERATIONS Cost, \$—

GILROY, Santa Clara Co., Cal. West Section of City.

Alterations and additions to grammar school.

Owner—Gilroy School District.

Architect—W. H. Weeks, 111 Sutter St., San Francisco, and Bank of Italy Bldg., San Jose.

All bids received were rejected, as they ran too high.

Lowest bids was submitted by John Riksheim, Gilroy, at \$3764. Plans will probably be revised and new bids called for at a later date.

OAKLAND, Alameda Co., Calif.—J. H. Fitzmaurice, 354 Hobart Street, Oakland, at \$980 awarded contract by Board of Education, 104 Administration Bldg., 1025 2nd Ave., to construct Burbank School retaining wall at NE terminus of 64th Avenue Place north-east of Trenor St.

Following is a complete list of bids:

J. H. Fitzmaurice, Oakland.....\$ 980

Walter Todd, Oakland.....1,110

Triberetti & Massero, Oakland.....1,155

Z. Bizzello, Oakland.....1,185

Schnoor Bros., Oakland.....1,250

A. Soda & Son, Oakland.....1,250

Plastering and Hardware Contract Awarded.

SCHOOL Cost, \$160,000

SANTA CRUZ, Santa Cruz Co., Cal.

Two-story reinforced concrete Mission type high school.

Owner—Santa Cruz School District.

Architect—J. J. Donovan, 1916 Broadway, Oakland.

Contractor—Wilson and McGranahan, Santa Cruz, \$91,894.

Plastering—W. A. Gould, Mt. View, \$14,500.

Hardware—Associated Hardware Co., 3860 San Pablo Ave., Oakland, \$2,294.

Other awards reported Aug. 2, 1930.

OAKLAND, Alameda Co., Calif.—Ariss-Knapp Co., 961 41st St., Oakland at \$2200 awarded contract by Board of

Education, 1025 Second Ave., for the removal of all concrete foundations and walls, tile walls, brick walls, all brick or tile flues, all concrete floors and concrete steps, concrete footings below existing grade to remain, at the Fremont High School site at 47th Ave. and Pothill Blvd.

Contract Awarded.

SCHOOL Cont. price, \$12,427

McFARLAND, Kern Co., Cal.

First unit of primary building and improvements to present building.

Owner—McFarland Union Grammar School Dist., H. J. Hendry, clerk.

Architect—Edwin J. Symmes, Habersfelde Bldg., Bakersfield.

Contractor—R. E. Lewis, Corcoran.

Plans Being Figured—Bids Close August 29, 8:30 P. M.

SCHOOL Cost, \$50,000

CERES, Stanislaus Co., Cal. Laurence Street.

One-story brick veneer grammar school with tile roof.

Owner—Ceres Grammar School Dist.

Architect—W. H. Weeks, 111 Sutter St., San Francisco.

OAKLAND, Alameda Co., Cal.—Patterson Bros., 494 36th St., Oakland, at \$595 awarded contract by Board of Education for painting Santa Fe School.

OAKLAND, Alameda Co., Cal.—Walter Blumert Co., 5125 Grove St., Oakland, at \$895 awarded contract by Board of Education for painting Durant School.

Contract Awarded.

REMODELING Cost, \$—

YREKA, Siskiyou Co., Cal.

Install boiler and remodel old heating plant of Yreka High School.

Owner—Siskiyou Union High School District, Yreka.

Plans by W. Wethered, 16 Turk St., San Francisco.

Contractor—Richardson & Churchill, Yreka.

Plans Being Prepared.

KINDERGARTEN Cost, \$—

SANTA BARBARA, Santa Barbara Co., Cal. Robbins Street.

Harding School, kindergarten and primary school.

Owner—Santa Barbara Board of Education.

Architect—Soule, Murphy & Hastings, 116 E. Solá St., Santa Barbara.

Contract Awarded.

GARAGE Cont. Price, \$6800

GILROY, Santa Clara Co., Cal.

School bus garage.

Owner—Gilroy High School District, E. E. Eustice, Clerk.

Architect—W. H. Weeks, 111 Sutter St., San Francisco, and Bank of Italy Bldg., San Jose.

Contractor—John McKeen, Fifth and Dowdy Sts., Gilroy.

BANKS, STORES & OFFICES

Contract Awarded.

STORE Cost, \$25,000

MERCED, Merced Co., Cal. 17th St near L Street.

One-story reinforced concrete store 50x150-ft.)

Owner—J. R. Flynn, Merced

Architect—None.

Contractor—W. K. Widemann, Merced.

Plans Complete.

REMODELING Cost, \$4000

OAKLAND, Alameda Co., Cal.

Remodeling radio station.

Owner—KIOU Broadcasting Station.

Plans by L. O. Berg, 675 Corbett Ave. San Francisco.

Work will go ahead this fall.

Sub-Contracts Awarded.

ADDITION Cost approx. \$250,000

SAN FRANCISCO, Clay and Montgomery Streets.

Class A addition for offices and bank.

Owner—Bank of Italy, premises.

Architect—H. A. Minton, Bank of Italy Bldg., Eddy and Powell Sts.

Contractor—K. E. Parker, 135 South Park.

Caisson Work—Regan Co., Crocker 1st National Bank Bldg.

Excavating—Sibley Grading & Teaming Co., 165 Landers St.

Sheet Metal—Morrison & Co., 74 Du-

boce Avenue.

Painting—A. A. Zelinsky, 4420 California Street.

Tile—Art Tile & Mantel Co., 221 Oak Street.

Plastering—Peter Bradley, 639 Bran-

nan Street.

Marble—American Marble Co., 25 Columbia Square.

Glass—Tyre Bros., 666 Townsend St.

Ornamental Iron—National Ornamental Iron & Bronze Co., 434 9th St.

Roofing—J. W. Bender, 18th and Bryant Streets.

Plumbing—F. W. Snook Co., 596 Clay Street.

Heating & Ventilating—Knittle Bros., 224 5th St.

Electrical Work—Crown Electric Co., 153 Eddy St.

Contract Awarded.

STORE Cost, \$15,000

HAYWARD, Alameda Co., Cal. Castro and B Sts.

One-story frame store.

Owner—Arthur J. Roberts.

Architect—None.

Contractor—C. A. Sorensen, 1815 62nd St., Oakland.

“Gold Medal” Safety Scaffolding

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OAKLAND, Alameda Co., Calif.—

Ariss-Knapp Co., 961 41st St., Oakland

at \$2200 awarded contract by Board of

Ornamental Iron Contract Awarded.
STORE Cost, \$425,000
SAN JOSE, Santa Clara Co., Cal. First
and San Carlos Sts.
Three-story Class C reinforced concrete
department store.
Owner—Hale Bros., Fifth and Market
Sts., San Francisco.

Architect—Blinder & Curtis, 35 W-San
Carlos St., San Jose, and Swanson
& Lane, Chicago, Ill.
Contractor—Dinwiddie Constr. Co.,
Crocker Bldg., San Francisco.
Ornamental Iron—Liberty Ornamental
Iron Works and San Jose Iron
Works, San Jose.

Commissioned To Prepare Plans.
STORE Cost, \$—
OAKLAND, Alameda Co., Calif. 19th
and Broadway.

Class A department store (site 33 by
130 ft.)
Owner—Isidor Weinstein (Weinstein's
Department Store), 1037 Market
St., San Francisco.
Architect—Wm. Knowles, 1214 Web-
ster St., Oakland.

Preparing Plans.
BANK Cost, \$750,000
PHOENIX, Arizona. Central Ave.
and Monroe Street.

Ten-story and basement Class A
steel, concrete and hollow terra
cotta bank and offices (188x150 ft.)
Owner—Valley Bank & Trust Co.,
Phoenix, Arizona.

Architect—Morgan, Walls & Cle-
ments, Van Nuys Bldg., L. A.

WOODLAND, Yolo Co., Cal.—Vogue
Department Store damaged by fire
August 9. The loss is estimated at
\$100,000.

Contract Awarded.
ALTERATIONS Cost, \$12,000
SAN JOSE, Santa Clara Co., Cal.
No. 69 South First St.

Alterations to one-story Class C busi-
ness building.
Owner—Guaranty Bldg & Loan As-
sociation, Premises.

Architect—Albert F. Roller, Crocker
First National Bank Bldg., San
Francisco.

Contractor—R. O. Summers, 17 N-
First St., San Jose.

NORTHERN CALIFORNIA—Mills
Nurseries, Inc. of Willows, Calif.,
will expend \$35,000 in the installation
of 10,000 feet of glass at its nursery
in the Carttenberg Tract and to
furnish stores to retail its products
in various Sacramento valley cities.
J. W. Mills of Willows is president of
the company

Contract Awarded.
STUDIO Cost, \$18,000
SAN MATEO, San Mateo Co., Calif.
Thirtieth and B Sts.

Two-story frame and stucco dancing
studio and apartments (5 rooms,
2 baths; 40x80-ft.)

Owner—Callan Jader.

Architect—Grimes & Schoening, Bal-
ovich Bldg., San Mateo.

Contractor—Lenfled & Olund, 145 El
Camino, San Mateo.

Contracts Awarded.
FURNISHINGS Cost, \$60,000
SALINAS, Monterey Co., Cal.
Fitting up banking rooms.

Owner—Salinas National Bank.
Architect—Swartz & Ryland, Spazier
Bldg., Monterey; 373 Main St., Sa-
linas, and Brix Bldg., Santa Cruz.
Contractor—H. H. Larson, 64 South
Park, San Francisco.

Miscellaneous and Ornamental Iron—
Michel & Pfeffer Iron Works, Har-
rison and 10th Sts., San Francisco.
Plastering—Wm. Ingram, Monterey.

Cabinet Work—Home Mfg. Co., 552

Brannan St., San Francisco.

Electrical Work—McConnell Electric
Works, Monterey.

Marble—Coast Wholesale Stone and
Marble Co., Ltd., E 5th and An-
derson Sts., Los Angeles.

Contract Awarded—Sub-Bids Being
Taken.

STORE Cost, \$70,000
OAKLAND, Alameda Co., Calif. NE
Twentyeth St. and Broadway.

Two-story steel frame and reinforced
concrete store (terra cotta front;
88x90-ft.)

Owner—R. H. Cross, Mills Bldg., San
Francisco.

Architect—Alben Froberg, Ray Bldg.,
Oakland.

Contractor—H. J. Christensen, 1921
Broadway, Oakland.

Will have steam heating system, tar
and gravel roof.

Preparing Plans.

BANK Cost, \$100,000
LOS ANGELES, Cal. Spring St., bet.
Sixth and Seventh Sts. (California
Bank Building).

Complete interior of two floors of
present building

Owner—Tucker, Hunter Dulin Co.,
458 S-Spring So., Los Angeles.

Architect—Earl T. Heitchmidt, Sub-
way Terminal Bldg., Los Angeles

Preparing Plans.

LABORATORY Cost, \$—
LOS ANGELES, Cal. Second St.,
bet. San Pedro and Central Ave.

Five-story and basement Class A steel
concrete and brick laboratory
(100x150 feet).

Owner—Brunswick Drug Co., 501 N.
Main St., Los Angeles.

Architect—Albert C. Martin, Higgins
Bldg., Los Angeles.

Sub-Contracts Awarded.

ALTERATIONS Cost, \$15,000
SAN FRANCISCO. 1164 Mission St.
Alterations and additions to present
building.

Owner and Builder—MacDonald and
Kahn, Financial Center Bldg.

Architect—George de Colmesnil, 1016
Nevada Bank Bldg.

Lessee—Enterprise Electric Co., 1164
Mission St.

Mill Work—California Mill Co., 645
Bryant St.

Elevators—Pacific Elevator Co., 45
Rausch St.

Miscellaneous Iron—Fair Mfg. Co., 617
Bryant St.

Plumbing and Heating—W. J. Moni-
han, 1552 Fulton St.

Contract Awarded.

ALTERATIONS Cost, \$6500
SAN FRANCISCO. No. 35 Grant Ave.
Alterations and additions to store
(alter store fronts and add mezz-
anine floor).

Owner—Nisley Shoe Co., Premises.

Plans by Grand Rapids Store &
Equipment Co., Russ Bldg., S. F.

Contractor—Dinwiddie Constr. Co.,
Crocker Bldg., San Francisco.

Contract Awarded.

ADDITION Cost, \$10,000
SAN FRANCISCO. N Lombard St.
W Octavia St.

One-story and mezzanine floor addi-
tion to class C sales and show
room building.

Owner—A. Raven, 1730 Lombard St.,
San Francisco.

Architect—W. H. Armitage, 72 New
Montgomery St., San Francisco.

Contractor—C. Chiappa & Co., 1109
Montgomery St., San Francisco.

Contract Awarded.

ADDITION Cost, \$11,000
WATSONVILLE, Santa Cruz Co., Cal.
No. 325 Main Street.

Two-story brick addition to present
building (ballroom and dining
room).

Owner—Frank Rodgers, Watsonville.
Architect—A. W. Story, Pajaro Valley
Bank Bldg., Watsonville.

Contractor—T. H. Rosewall, Watson-
ville.

Electrical Work—E. H. Purtell, Wat-
sonville.

Completing Plans.

NEWSPAPER BLDG. Cost, \$225,000
HOLLYWOOD, Los Angeles Co., Cal.
No. 1541-49 Wilcox Avenue.

Two-story and basement Class A re-
inforced concrete newspaper
building (144x143 feet).

Owner—Hollywood News Publishing
Company.

Architect—Francis D. Rutherford,
Mills-Fraser Bldg., Santa Monica
Bids will be taken in ten days.

Contracts Awarded.

ADDITION Cost, Approx. \$250,000
SAN FRANCISCO. Clay and Mont-
gomery Streets.

Class A addition for offices and bank.
Owner—Bank of Italy, Premises.

Architect—H. A. Minton, Bank of Italy
Bldg., Eddy and Powell Sts., San
Francisco.

Contractor—K. E. Parker, 135 South
Park, San Francisco.

Structural Steel—Judson-Pacific Co.,
609 Mission St., San Francisco.

Additional Sub-Contracts Awarded.

STORE Cost, \$150,000
OAKLAND, Alameda Co., Calif. 20th
St. and Broadway.

Three-story class A store.

Owner—I. Magnin & Co., Grant Ave.
and Geary St., San Francisco.

Architect—Weeks and Day, Financial
Center Bldg., San Francisco.

Contractor—Chas. Heyer, Mills Bldg.,
San Francisco.

Structural Steel—Judson-Pacific Co.,
609 Mission St., San Francisco.

Architectural Terra Cotta—N. Clark &
Son, 116 Natoma St., San Fran-
cisco.

Marble—Vermont Marble Co., 244
Brannan St., San Francisco.

Ornamental Iron and Steel Sash—Mi-
chel & Pfeffer Iron Works, Har-
rison and 10th Sts., San Francisco.

Elevators—Spencer Elevator Co., 166
7th St., San Francisco.

Elevator Contract Awarded.

ADDITION Cost approx., \$250,000
SAN FRANCISCO. Clay and Mont-
gomery Streets.

Class A addition for offices and bank.
Owner—Bank of Italy, premises.

Architect—H. A. Minton, Bank of Italy
Bldg., Eddy and Powell Sts.

Contractor—K. E. Parker, 135 South
Park.

Elevators—Spencer Elevator Co., 166
7th Street.

As previously reported, structural
steel awarded to Judson-Pacific Co.,
609 Mission St.

Preparing Plans.

STORES Cost, \$150,000
LOS ANGELES, Cal. SE Washington
and Rimpau Sts.

Two-story and basement Class C
brick stores & offices (160x140 ft.)

Owner—Trabue Pittman.

Architect—S. Charles Lee, Petroleum
Securities Bldg., Los Angeles.

Plans Being Figured—Bids Close Aug.
16th, 12 Noon.

STORE, ETC. Cost, \$17,000
NEWMAN, Stanislaus Co., Cal.

One-story brick and hollow tile store and warehouse (50x125-ft.)
Owner—A. M. Souza.
Architect—Hardman & Russ, Berkeley Bank Bldg., Berkeley.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$40,000
SANTA ROSA, Sonoma Co., Cal.
Alterations and additions to concrete bank building (add two stores, 60x50 feet, etc.)

Owner—Bank of Italy.
Architect—H. A. Minton, Bank of Italy Bldg., Eddy and Powell Sts., San Francisco.

Structural Steel—Schrader Iron Works 1247 Harrison St., San Francisco.

Plumbing—George Mitchell, Santa Rosa.

Electric Work—L. A. Drake, Santa Rosa.

Marble—Joseph Musto Sons-Keenan Co., 535 North Point St., San Francisco.

Bank Fixtures—S. Kulchar & Co., 731 E-Tenth St., Oakland.

Miscellaneous and Ornamental Iron—Federal Ornamental Iron Works, 16th St. and San Bruno Ave., San Francisco.

SAN FRANCISCO.—The San Francisco Bank, 526 California St., has purchased the property adjoining their present bank on California St., extending through to Sacramento, with a frontage of 45 ft. on Sacramento St., and 41x51 on Spring St. Just what improvements will be made is not made public at this time.

THEATRES

Specifications Being Written.
THEATRE Cost, \$250,000
SAN FRANCISCO, Ocean Avenue bet. Fairfield and Lakewood Aves.
Class A steel frame and reinforced concrete theatre and (6-8) stores; theatre seating 1800.

Owner—Samuel Levin.
Architect—Miller & Pfeiffer, 580 Market St.

Bids will be taken in three or four weeks. Structure will have a seating capacity of 1800 and contain six or eight stores. It will have a frontage of 182 feet on Ocean Ave.

Commissioned To Prepare Plans.
THEATRE Cost, \$300,000
PHOENIX, Arizona First and Washington Sts.

Two-story Class A reinforced concrete theatre (150x200 ft.) (to seat 1700).

Owner—Fox West Coast Theatres, Inc. Architect—S. Charles Lee, Petroleum Securities Bldg., Los Angeles.

SAN FRANCISCO.—Until August 25 3 P. M., under Proposal No. 620, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish and install stage fittings and draperies in Roosevelt Junior High School. Specifications and further information obtainable from above.

Sub-Contracts Awarded.
REMODELING Cost, \$20,000
VALLEJO, Solano Co., Cal.
Remodel theatre building.

Owner—Fox West Coast Service Corp., Washington St. and Vermont Ave., Los Angeles.

Architect—Bach and Stanbery, Film Exchange Bldg., Los Angeles.

Contractor—A. J. Hopper, 1769 Pleasant Valley Ave., Piedmont.

Plumbing—J. J. Looney, Vallejo.

Concrete Work—E. L. Johnston, Vallejo.

Sash and Doors—Western Door & Sash Co., 5th and Cypress Sts., Oakland.

Steel Toilet Partitions—Albatross Steel Equipment Co., Los Angeles, and 557 Market St., San Francisco.
Heating and Ventilating—C. R. Watts, 1156 Spruce St., Berkeley.
Electric Work—Alta Electric Co., 938 Howard St., San Francisco.

Plans To Be Prepared.

THEATRE Cost, \$175,000
STOCKTON, San Joaquin Co., Calif. 200 block N Sutter St. (100x150).

Two-story fireproof theatre (to seat 2000).

Owner—National Theatres Syndicate, San Francisco.

Architect—Not Given.

In all probability Bliss & Fairweather, Balboa Bldg., San Francisco, will be the architects. More definite information will be given later.

WHARVES AND DOCKS

SAN FRANCISCO.—Alta Roofing Co. 976 Indiana St., awarded contract by State Harbor Commission, Ferry Bldg. for laying roofing on Shed of Pier No. 44, involving approximately 840 squares of which 420 squares on the north side of the shed are provided for in Contract A and approximately 420 squares on the south side, as provided for in Contract B.

LAKEPORT, Lake Co., Cal.—Warrantin Bros., Lakeport, at \$568.50 awarded contract by town trustees to construct a 26x30 ft. landing float for operation in connection with municipal wharf project. T. T. Wise, Lakeport, bid \$615. Chas. N. Jensen, bid \$438, on his own plans and specifications.

SAN FRANCISCO.—Until August 20 2 P. M., bids will be received by Frank G. White, chief engineer, State Harbor Commission, Room 18, Ferry Bldg. for painting interior of Pier 28 shed. The work shall include the painting of all interior surfaces of concrete, steel or wood with the exception of the steel rolling door curtains, and the sides of the door guides in contact with or exterior to the curtains. Included in the surfaces to be painted are the concrete side and end walls, the concrete roof slab, all structural steel, including columns, trusses, all other steel framing, exterior rustic of the wooden offices at the inner end, interior or window sash, louvers, etc. The interior of the offices and the steel rolling sash curtains are not included in the contract. Specifications and further information from above.

MISCELLANEOUS CONSTRUCTION

Contract Awarded.
UNDERTAKING ESTABLISHMENT Cost, \$20,000
SAN FRANCISCO, Valencia St. and Twenty-fifth St.

Two-story frame and stucco undertaking establishment.

Owner—Anderson Funeral Parlors, 1387 Valencia St.

Architect—Clayson and Amandes, Hearst Bldg.

Contractor—Magunson & Peterson, 175 Vasquez Ave.

Preparing Plans.
MAUSOLEUM Cost, \$750,000
COMPTON, Los Angeles, Co., Cal. Riverside-Redondo Blvd.

Three-story reinforced concrete mausoleum (430x225 ft.), (7000 crypts)

Owner—Knollcrest Mausoleum Assn., Chapman Bldg., Los Angeles.

Architect—Newton P. Rummmonds, 116 Locust Ave., Long Beach.

PALO ALTO, Santa Clara Co., Cal.—Until August 18, 4 P. M., bids will

be received by J. E. Bixbee, city engineer, to move, rebuild and demolish certain structures in California street necessary to permit widening of that thoroughfare between El Camino Real and Alma St. Specifications obtainable from the city engineer.

TULARE, Tulare Co., Cal.—Tulare Garment Manufacturing Co., which has under construction a garment manufacturing plant, plans early construction of a \$12,000 recreation project in the new industrial tract in the west section of the city. L. S. Sheppe, Tulare, will be the contractor. In addition to a swimming pool and clubhouse, various recreational facilities will be provided.

To Be Done By Day's Work By Owner
GOLF COURSE Cost, \$4500
OAKLAND, Alameda Co., Cal. On 48th and Telegraph Ave.

Twenty-seven-hole miniature golf course.

Owner—Jos. Franklin, San Leandro.

Plans by L. F. Hyde, 372 Hanover St., Oakland.

To Be Done By Day's Work By Owner
GOLF COURSE Cost, \$3500
OAKLAND, Alameda Co., Cal. 44th and Telegraph Avenue

Eighteen-hole miniature indoor golf course.

Owner—Rogers & La Franke, Prem. Plans by L. F. Hyde, 372 Hanover St., Oakland.

Bids will be taken on finish hardwood and carpet.

Contract Awarded.
STABLES Cost, \$—
SANTA CRUZ, Santa Cruz Co., Cal.

Construct stables, etc.

Owner—Marian Hollins, Santa Cruz.

Architect—W. W. Wurster, 260 California St., San Francisco.

Contractor—Palmer & Balsiger, Santa Cruz.

To Be Done By Day's Work By Owner
GOLF COURSE Cost, \$4500
HAYWARD, Alameda Co., Cal.

Twenty-seven-hole miniature golf course.

Owner—Lansom & Smith, Hayward.

Architect—L. F. Hyde, 372 Hanover St., Oakland.

Bids will be taken on cement, wood, etc.

Preparing Sketches.
MAUSOLEUM Cost, \$—
INGLEWOOD, Calif. Redondo Blvd.

Reinforced concrete mausoleum (65x150-ft.; 10,000 crypts; chapel and 50-ft. tower).

Owner—Inglewood Park Cemetery Association.

Architect—John P. Krempel and W. E. Erkes, Bank of Italy Bldg., Los Angeles.

August 14, 1930
Lumber Contract Awarded.

GRANDSTAND, ETC. Cost, \$1,250,000
SAN FRANCISCO, Fifteenth St. and Potrero Avenue.

Baseball Park, class A steel and concrete grandstand, 160 ft. long

Owner—San Francisco Baseball Club, 15th and Valencia Sts.

Engineer—H. J. Brunner, Sharon Bldg.

Contractor—Lindgren-Swinerton, Inc., 225 Bush St.

Lumber—Christensen Lumber Co., 5th and Hooper Sts.

As previously reported lawn sprinkler system awarded to The Turner Co., Tehama St.; excavation to Shiley Grading & Teaming Co., 16th and Lenders Street.

The three-day convention will close with the Annual Banquet on Thursday evening at which Governor Green of Michigan will be the principal speaker.

Engineering News Section

BRIDGES

OROVILLE, Butte Co., Calif.—Until August 18, 2 P. M. bids will be received by C. F. Belding, county clerk, for improvements in Road District No. 1, involving the construction of a causeway, consisting of:

(a) Construction of causeway on a rolled earth fill approximately 30 ft. high and 230 ft. long, containing 8400 cu. yds. of embankment of assorted materials from three different sources:

1. 5000 cu. yds. of selected earth borrow to be placed in the rolled fill portion of the causeway.

2. 1100 cu. yds. of solid rock from the Swayne Logging Railway and the highway cut at the east end of the proposed fill, material to be placed on slopes of fill.

3. 2300 cu. yds. of rock and granular material from the widening of Lakeside Way, materials to be placed on the slopes of fill and in highway approaches to fill.

(b) Clearing and grubbing timber and brush on site and approaches and moving present highway bridge.

(c) Stripping site of fill to bedrock to required width.

(d) Construction of cut-off trench to width required.

(e) Construction of 18 inches inside diameter reinforced concrete drainage conduit with timber control gate stand and placing control gate from outlet from old dam.

(f) Constructing three tube reinforced concrete syphon drainage culverts.

(g) Constructing highway approach at each end of fill.

(h) Reconstructing Swayne Logging Railroad (narrow gauge). Taking up and relaying 1400 ft. of main line track and 90 ft. of siding track. Moving and resetting water tank and camp buildings, tent floors and grading new camp sites.

(i) Rergrading road connecting with Lakeside Way.

(j) Furnishing all material and labor, hauling, mixing, placing, laying out, assembling of materials, and all construction work either temporary or permanent in connection with the work and delivering the entire work complete and ready for use.

(k) Constructing and maintaining a suitable detour of the present county road during construction of causeway.

Work under County Improvement Act of 1921. Certified check 10%, payable to County required with bid. Plans on file in office of clerk.

LOS ANGELES COUNTY, Cal.—Until September 3, 2 P. M., bids will be received by State Highway Commission to construct a reinforced concrete girder bridge across Castaic Creek about ½ mile north of Castaic Junction, composed of seven 35-ft. spans on concrete bents and concrete abutments with pile foundations.

See call for bids under official proposal section this issue.

YREKA, Siskiyou Co., Cal.—County surveyor is making surveys for a new bridge over the Klamath River to supplant the old suspension bridge near Walker. The new structure will be 320 ft. long and will cost \$25,000. The cost will be borne by the county, the U. S. Forest Service and the state.

SANTA BARBARA COUNTY, Calif. Silvera and Robins, Ventura, at \$20,152 awarded contract by State Highway Commission to construct reinforced concrete girder bridge over Nojomi Creek, 7½ miles south of Zaca, composed of four 42-ft. 6-in. spans on concrete bents and an abutment.

PLACERVILLE, El Dorado Co., Cal.—Dector Williamson, Placerville, at \$625 awarded contract by county supervisors to construct reinforced concrete girder bridge over Youngstown Creek and at \$2,750 for a reinforced concrete girder bridge over Perry Creek, both located near Fairplay.

SACRAMENTO, Cal.—Until August 18, 10 A. M., bids will be received by Harry W. Hall, county clerk, to construct timber bridge (Hagle Bridge) over Laguna Creek. Certified check 10% payable to Chairman of the Board of Supervisors required with bid. Plans obtainable from Chas. Deterding, Co. Engineer, at Sacramento.

SAN FRANCISCO—State Highway Commission, C. H. Purcell, chief engineer, is preparing preliminary plans for the proposed Rincon Hill-Goat Island-Key System pier site bridge over San Francisco Bay for submission to the U. S. War Department. The cost of construction is placed at \$75,000,000.

Governor Young announces he will call an early meeting of the California Toll Bridge Authority, a body of state officials which is charged with the issuance of revenue bonds to finance toll bridges. Financing the bay bridge will be handled in this manner and in time will revert to the state.

LOS ANGELES, Cal.—County Bridge Engineer W. E. Armstrong, Hall of Records, is completing plans for a bridge over the Los Angeles river at Atlantic Ave. north of Maywood; estimated cost \$175,000. Will have seven 60-ft. spans with 60-ft. roadway and two 5-ft. sidewalks. Alternate bids will be asked on a reinforced concrete arch bridge and on a steel plate girder bridge with reinforced concrete deck. Bids will be asked in about a week.

RIVERSIDE, Riverside Co., Calif.—According to figures of City Engineer Brown, the improvement of Ivy St. will include two overhead structures on the Union Pacific Ry. and the Santa Fe Ry., at a total cost of between \$60,000 and \$75,000. The estimated cost of the complete improvement project is \$125,000.

EUREKA, Humboldt Co., Cal.—Smith Bros., Eureka, at \$8466 submitted low bid to county supervisors to construct Moseley Slough Bridge with alternative bid of \$6768. Henry Padgett and Fred J. Maurer & Son, were other bidders. Taken under advisement.

SANTA ROSA, Sonoma Co., Cal.—See "Streets and Highways," this issue. Fiscal year 1930-1931 road and bridge projects to be undertaken in Sonoma county.

REDWOOD CITY, San Mateo Co., Cal.—Frank M. Brown, Palo Alto, at \$13,157.50 awarded contract by city

council to construct six bridges and culverts in various sections of the city, involving: 520 cu. yds. concrete, 18,100 lbs. reinf. steel; 1850 cu. yds. excavation; 832 cu. yds. filling and backfill; 1405 sq. ft. asphalt conc. pave., 315 lin. ft. 2 inch galv. iron railing, 19 catchbasins; 50 lin. ft. 6-in. black dipped steel pipe; 50 lin. ft. 8-in. do., 22 lin. ft. 12-in. galv. corr. steel pipe. Following is a complete list of bids received:

Frank M. Brown	\$13,157
W. A. Tyson and L. M. Pollard,	
Redwood City	13,729
Walter Todd, Oakland	13,460
Thermotte Constr. Co., San	
Jose	13,842
Carl French, San Francisco	14,060
Geo. Ulrich Con. Co., Modesto	14,141
W. A. Dontanville, Salinas	14,848
C. M. Dearborn, Redwood City	15,045
H. C. Vensano Co., S. F.	18,723

BITTE COUNTY, Cal.—Until August 27, 2 P. M., bids will be received by C. H. Whitmore, District Engineer, State Highway Commission, 502 State Office Bldg., Sacramento, to construct a reinforced concrete bridge over the State Highway 1 mile east of Oroville, consisting of one earth filled arch span, 46 ft. long.

See call for bids under official proposal section in this issue.

NAPA, Napa Co., Cal.—Harry Thorsen, St. Helena, at \$3170 awarded contract by county to construct arch extension to Highway bridge near the Myrtledale Hot Springs. Project involves: 80 cu. yds. struc. excav., unclass.; 300 cu. yds. fill approach; 142 cu. yds. class A concrete; 10,200 lbs. reinforcing steel. Only other bid submitted by C. H. Gildersleeve, at \$3471.

SAN LUIS OBISPO, San Luis Obispo Co., Cal.—Irving L. Ryder, San Luis Obispo, and San Jose, at \$18,799 awarded contract by city council for the following bridge construction: French street bridge over San Luis Obispo Creek, involving removal of old bridge and replacing with two 30-ft. spans with roadway, 27-ft. wide; regrading approaches, Santa Rosa St. bridge, 22-ft. roadway, rebuild and widen Chorro St. bridge.

LOS ANGELES COUNTY, Calif.—Following three low bids received Aug. 13 by State Highway Commission to construct a reinforced concrete girder bridge over the San Gabriel river near Seal Bench, consisting of seven 57 foot spans on concrete piers with pile foundations:

J. F. Knapp, Oakland	\$13,977
Oberg Bros., Los Angeles	125,151
Carpenter Bros., Inc., Beverly Hills	127,179

HUMBOLDT COUNTY, Cal.—Following three low bids received August 13 by State Highway Commission to construct overhead crossing over tracks of the Northwestern Pacific Ry. about 2½ miles north of Beatrice, consisting of two 61 ft. 7 in. through plate girder spans, one 40 ft. steel beam span and approximately 450 ft. of timber trestle approach:

F. J. Maurer & Son, Inc., Eureka	\$50,324
Merrill Fraser Co., Eureka	51,693
Smith Bros. Const. Co., Eureka	55,817

SANTA ROSA, Sonoma Co., Cal.—County Surveyor E. A. Finch is completing plans for three timber trestles over Santa Rosa Creek and for a concrete culvert on the Paula Road in the Petaluma Township; also for a fill at the Ballou Ranch.

EUREKA, Humboldt Co., Cal.—Henry Padgett, Eureka, nt \$9367 submitted low bid to county supervisors to construct Riverside bridge with alternative bid at \$4384 using one span of the present structure. Smith Bros. and Fred J. Maurer & Son, Eureka, were other bidders. Taken under advisement.

CARSON CITY, Nevada—O. G. Ritchie, San Jose, awarded contract by the State Highway Department at \$9373 to construct reinforced concrete bridge, including approaches, the bridge to be constructed across the East Walker River, at a point 7½ miles south of Yerington in Lyon County, involving 53 cu. yds. excav. unclass.; 300 cu. yds. structure excav.; 40 cu. yds. load, haul and spread gravel; 225 cu. yds. class A concrete; 27,600 lbs. reinforcing steel; 750 lbs. bearing plates and rollers; 4 monuments; 2 furnishing and installing posts for federal aid markers. Crushed rock or gravel for surfacing roadway furnished by the state in stockpile to the right of station 394+50. Other bids were: A. D. Drumm Jr., \$10,534.50; Ora Bundy, \$11,246.40; J. S. Jensen, \$13,001.

DREDGING, HARBOR WORKS & EXCAVATIONS

STOCKTON, San Joaquin Co., Cal.—Until August 18, 3 P. M., under Circular Proposal No. 31-29, Specifications No. 2257, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, to clear brush and trees from certain areas along the San Joaquin river between Turners Cut and Criminal Point, about 8½ miles and 16½ miles respectively, below Stockton. Specifications and further information obtainable from above.

SACRAMENTO, Cal.—Until August 18, 3 P. M., under Order No. 2261, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish, deliver and place rip-rap stone along the Sacramento river, in the vicinity of Chicory Bend. Specifications and further information obtainable from above.

SAN FRANCISCO.—Healy-Tibbitts Const. Co., 64 Pine St., at \$257,615, submitted low bid to Islais Creek Reclamation District, 375 City Hall, to construct rock bulkhead wall in trench at Islais Creek Channel, involving:

- (1) 325,000 cu. yds. material to be dredged and disposed of;
- (2) 475,000 tons of rock to be furnished, transported and placed. The work is located along the north side of Islais Creek Channel west of Third St. and along the east side of the Southern Pacific Company's trestle. Complete list of bids follows:
- (1) Healy-Tibbitts Const. Co., (1) 18c;
- (2) 42c; total \$257,615;
- George Pollock, (1) 20c; (2) 47c; total, \$237,580.
- Industrial Land & Development Co. (1) 20c; (2) 63c; total, \$363,376.
- Merritt, Chapman & Scott, (1) 25c; (2) 63c; total, \$330,815.
- Kern and Kibbe, Inc., (1) 19c; (2) 72c; total \$408,135.

Bids taken under advisement.

STREET LIGHTING SYSTEMS

SAN FRANCISCO.—Bids will be asked shortly by Board of Public Works to furnish and deliver standards for lighting 19 miles of San Francisco boulevards, involving 856 standards in all, 562 to be metal and 294 of concrete construction.

OAKLAND, Cal.—City council declares intention to install ornamental street lighting system in East 12th St., bet. Lake Shore Ave. and 13th Ave., involving 77 duplex lighting standards together with underground system. 1911 Act. Hearing August 28. Frank C. Merritt, city clerk. Walter N. Frickstad, city engineer.

PORTERVILLE, Tulare Co., Calif.—Until August 19, 3 P. M. bids will be received by W. R. means, city clerk, (134) to install ornamental electrolux system in Main St. bet. Olive and Morton Sts., involving 56 two-light standards together with underground system. Union Metal Mfg. Co.'s standards, Design No. 2381. 1911 Act. Bond Act 1915. Certified check 10% payable to city required with bid. Plans on file in office of clerk and obtainable from F. W. Pease, city engineer.

OAKLAND, Cal.—Until August 21, 12 noon, bids will be received by Frank C. Merritt, city clerk, to install lighting system in 38th Ave. bet. Alameda Ave. and Liese Ave., involving 21 single-light standards together with underground system. 1911 Act. Certified check 10% payable to city required with bid. Plans on file in office of clerk. Walter N. Frickstad, city engineer.

SAN FRANCISCO—Until August 25, 11 A. M., bids will be received by Constructing Quartermaster, Fort Mason, to extend street lighting system and install new street lighting standards at Letterman General Hospital. Specifications obtainable from above.

MACHINERY AND EQUIPMENT

NAFA, Napa Co., Cal.—Until August 18, bids will be received by H. H. Thompson, City Clerk, to furnish and deliver one 1½-ton Ford dump truck for street department. H. A. Harrold, city engineer.

TUSTIN, Orange Co., Cal.—Until 12 o'clock noon, August 18, bids will be received by the Tustin Union High School District for furnishing the following: one 20-inch shaper; one 8-foot variable speed wood lathe; four 32x½-inch bus tires; six 36x½-inch bus tires; six 36-8.25 inch bus tires. W. J. Cheney, Clerk.

ALAMEDA, Alameda Co., Cal.—Following bids taken under advisement by Board of Education to furnish and install a radial drill in connection with shop department at high school:

- C. F. Bulotti, 829 Folsom St., San Francisco, \$3399; alt. \$3399.
- Planagan Machinery Co., 321 Clay St. (second hand), \$1375.
- Harron, Rickard and McConne, 1600 Bryant St., San Francisco, \$4192.
- Jenison Machinery Co., Fremont St., San Francisco, \$3419.
- Pratt & Whitney, 917 Howard St., San Francisco, \$3504.

PHOENIX, Ariz.—Until August 25, 2 P. M., bids will be received by Jno. B. Brown, superintendent, U. S. Indian School, Phoenix, to furnish

and deliver one sliding head sensitive drill so constructed as to accurately and quickly drill holes from 6 to ½ inch in mild steel. Further information obtainable from above.

EL CERRITO, Contra Costa Co., Cal.—Bids are being received by H. M. Nissen, commissioner of the Police and Fire Departments to furnish and install a gasoline pump in fire station. Further information obtainable from above.

OAKLAND, Cal.—Until August 27, 8 P. M., bids will be received by John H. Kimball, secretary, East Bay Municipal Utility District, 512 Sixteenth St., to furnish one portable gasoline engine driven 200 Amp. electric welder mounted on steel skids with complete equipment as per Proposal No. 239. Specifications obtainable from above.

BAKERSFIELD, Kern Co., Cal.—Until August 23, 12 noon, bids will be received by Reginald F. Waters, Clerk, Rosedale School District, to furnish one 35 passenger school bus mounted on a Model AA Ford chassis. Specifications and further information obtainable from clerk.

PHOENIX, Ariz.—The Arizona highway commission has announced that bids will be asked (to be received probably about Sept. 2) for one 10-ton truck, ten 2- and 3-ton dump trucks, and one ¾-yd. shovel. W. C. Lane, state engineer.

CHINO, San Bernardino Co., Cal.—Until 7:30 P. M., Aug. 19, bids will be received by the city council for furnishing a new turbine pump for Well No. 1, City of Chino Municipal Water System. Specifications may be seen at the office of M. L. Birnie, city clerk.

RAILROADS

LAS VEGAS, Nev.—Until 11 A. M., September 5, bids will be received by the chief engineer of the Union Pacific System, Pacific Electric Bldg., Los Angeles, for grading, trestles and culverts for the 22-mile branch line to be built from a point on the main line of the Union Pacific, 7 miles south of Las Vegas, to Summit, the designation given the junction of the Union Pacific branch line and the 7-mile line to be built by the government to the main construction center of the Boulder Dam project on the Colorado River. The work will involve: 218,000 cu. yds. of common excavation, 23,400 cu. yds. of loose rock, 64,600 cu. yds. of solid rock, 36 pile trestles, 6 frame trestles and 62 corr. iron pipe culverts. Materials for the trestles and culverts will be supplied by the Union Pacific. Time required for completion is six months with work to start on or about October 1. Junction of the branch and main lines is 327 miles from Los Angeles. Under the initial Boulder Dam appropriation of \$10,660,000 the government has allocated \$2,500,000 to provide rail facilities, \$900,000 for the Union Pacific branch line and switching track at Summit and \$1,600,000 for the 7-mile government line to the dam site. Work on the government line will probably not be started until completion of the Union Pacific branch.

LOS ANGELES, Cal.—Hauser Construction Co., 1201 Security Bldg., Long Beach, awarded contract by the

county supervisors at \$16,000 to lay 2000 ft. railroad track and placing 12,500 tons rip-rap, West Levee of Los Angeles River.

FIRE ALARM SYSTEMS

ARCATA, Humboldt Co., Cal.—Until August 22, 8 P. M. bids will be received by Lester A. Johnson, city clerk, to furnish and deliver 500 ft. 2½-in. fire hose and 100 ft. 1½-in. fire hose. Further information obtainable from above.

FIRE EQUIPMENT

ALHAMBRA, Los Angeles Co., Cal.—Gamewell Co. submitted only bid to the city commission at \$7000 to furnish and install extensions to fire alarm system. Bid was referred to the city manager and to Fire Chief F. A. Boyet.

RESERVOIRS AND DAMS

TURLOCK, Stanislaus Co., Calif.—Tentative plans and specifications have been approved by the directors of the Turlock Irrigation District to increase the height of the La Grange Dam on the Tuolumne river by two feet. The present height of the dam is 127 feet.

CROCKETT, Contra Costa Co., Cal.—R. P. Easley, Antioch, awarded contract by California and Hawaiian Sugar Corp. to construct a reservoir and dam on the Solano county shore adjoining the Carquinez Straits bridge. Reservoir will have capacity of 15,000,000-gals. and will be used for storage of water drawn from the Sosscol Works in Napa county.

PIPE LINES, WELLS, ETC.

OAKDALE, Stanislaus Co., Cal.—Pacific Gas & Electric Co., has authorized extension of natural gas mains to serve Oakdale and Riverbank, involving approval 5 miles of 6½-in. main to Riverbank and from that point another 4½-inch main will be extended to Oakdale.

SAN JOSE, Santa Clara Co., Cal.—Pacific Gas & Electric Co., I. B. Adams, district manager, has provided approximately \$20,000 to finance installation of 14,500 ft. 4-in. high pressure gas main in the Stevens Creek road from Portal to Saratoga Ave. and 2700 ft. of 3-in. high pressure main in Saratoga Ave. from Stevens Creek road and 3000 ft. 2-in. main in Miller Ave.

SEWERS AND SEWAGE DISPOSAL PLANTS

ALAMEDA, Alameda Co., Cal.—Until August 19, 8 P. M. bids will be received by W. E. Varcoe, city clerk, to construct storm water sewer. Certified check 10% payable to city required with bid. Plans obtainable from city engineer on deposit of \$10, returnable.

MOUNTAIN VIEW, Santa Clara Co., Cal.—Until August 18, bids will be received by city council to construct sewage disposal pumping plant; estimated cost from \$6000 to \$10,000. C. C. Kennedy, consulting engineer, Call Bldg., San Francisco. Plans on file in office of clerk and obtainable from engineer.

SAN FRANCISCO—E. J. Treacy, Call Bldg., at \$5125 awarded contract by Board of Public Works to improve Pennsylvania Ave., bet. 433 ft. north of 23rd St. and 36 ft. south from 25th St., etc., involving vit. clay pipe sew-

ers with wye branches, side sewers, brick manholes.

RICHMOND, Contra Costa Co., Cal.—Thiden Lumber Co., Richmond, has been awarded a contract by the Jasper-Stacy Co. of San Francisco to furnish all lumber involved in the construction of sewers in the industrial district for which the San Francisco firm has the contract on a bid of \$139,946.

WATER WORKS

VALLEJO, Solano Co., Cal.—City council provides \$37,500 in 1930-31 budget to finance installation of a 24-inch water main extension from the Fleming Hill reservoir to the Sonoma street extension. T. D. Kilkeny, city engineer. Alf. E. Edgumbe, city clerk.

HAYWARD, Alameda Co., Calif.—Castro Valley Water Commission has signed a tentative agreement with the East Bay Municipal Utility District for a water supply. The agreement is subject to the decision of a legal question regarding Castro Valley's right to join the East Bay Utility District and its right to bond itself for the purchase of equipment and water lines. Pipe lines 25 miles in length would be required in addition to three large storage tanks, one near Foothill Blvd., another on the high level of the north boundary line of the district and a third on the Jensen road.

CLOVERDALE, Sonoma Co., Cal.—J. J. Ongaro Constr. Co., at \$16,580 awarded contract by City Council to construct extensions to water system, involving 4-in. c. i. mains.

SANTA ROSA, Sonoma Co., Cal.—Until August 19, 5 P. M. bids will be received by N. L. Donovan, city clerk, for cleaning water mains of the municipal water system. Cert. check 10% required with bid. Specifications obtainable from city engineer.

ARCADIA, Los Angeles Co., Cal.—An election will be held within the next few months to vote on a water bond issue for extensions and additions to the present water supply and distribution system.

STRAFORD, Kings Co., Calif.—An election will be held shortly to vote on a \$30,000 bond issue for the extension of the water distribution system and for the construction of a tank and pipe line.

SANTA MONICA, Los Angeles Co., Cal.—Until 10 A. M., August 19, bids will be received by the city council for furnishing nine 30-in. hub-end, iron body, bronze mounted, double disc, non-rising stem gate valves, for 175-pound working pressure, each equipped with 6-in. by-pass and beveled gears, to be housed in cast-iron grease case. Valves to be delivered at trenches on Sawtelle Blvd., between Pico Blvd. and Venice Blvd., within 75 days after execution of the contract. Certified check, 5%, payable to Frank A. Helton, commissioner of Finance. John A. Morton, commissioner of public works.

STRAFORD, Kings Co., Calif.—Stratford Public Utility District votes bonds of \$30,000 to finance purchase and improvement of water distributing system owned by Mrs. W. N. Stratford. Jack N. Darrell is secretary of the district.

LIVINGSTON, Merced Co., Calif.—United Concrete Pipe Co., Merced, awarded contract by city trustees to

remove 250-ft. of 4-in. pipe line at \$75 and install 6-in. c. i. pipe at \$119 ft. gate valves, \$28 1' L. Burr, only other bidder at \$98, \$125 and \$16 respectively. W. E. Hedeen, engineer, Shafter Bldg., Merced.

PLAYGROUNDS & PARKS

Plans Being Figured Bids Close September 5, 2 P. M.
BASKET BALL COURT COST 1—OFTLAND, Sacramento Co., Cal. Construct basket ball court.
Owner—Bates Joint Union School District, L. C. Peck, Clerk.
Architect—W. E. Coffman, 437 Forum Bldg., Sacramento.
Certified check 10% payable to district required with bid. Plans obtainable from the architect.

STREETS AND HIGHWAYS

LINCOLN COUNTY, Nevada—Until August 27, 2 P. M. bids will be received by State Highway Commission, Carson City, to furnish asphaltic fuel oil and apply to crushed rock or crushed gravel surface on 19.94 miles between Caliente and a point 20 miles north. Certified check 5% required with bid. Plans obtainable from S. C. Durkee, state highway engineer, Carson City.

RED BLUFF, Tehama Co., Cal.—County Supervisors approve report to F. J. Man, engineer for Joint Highway District No. 11, covering the construction of the Weed-Klamath Falls Highway, estimated to cost \$540,000 for the entire 41 miles with \$6000 additional for surfacing. The first unit 2.8 miles near Weed will cost \$67,000 of which Tehama County will pay \$1,848.95, Siskiyou county, \$46,737 and Shasta county \$18,195.

NAPA, Napa Co., Cal.—Until Aug. 18, bids will be received by city council to furnish and deliver one tank car of asphalt. Specifications obtainable from City Engineer H. A. Harrold.

LOS ANGELES AND ORANGE COUNTIES, Cal.—Following three low bids received Aug. 12 by State Highway Commission to grade and pave with Portland cement concrete and bituminous macadam, 3.1 miles between Anaheim St and Seal Beach:
C. M. Morgan Paving Co., Los Angeles \$191,604
J. F. Knapp, Oakland 198,554
John B. Bressi, Los Angeles, 203,053

SAN DIEGO COUNTY, Calif.—Following three low bids received Aug. 13 by State Highway Commission to furnish and apply heavy fuel oil to roads on 8.4 miles between La Posta and Tecate Divide:
L. C. Pulley, Long Beach \$13,356
Gilmere Oil Co., Los Angeles 15,171
California Road Oil Service Co., Wilmington 15,329

RED BLUFF, Tehama Co., Cal.—County supervisors approve report of Engineer Martin C. Polk, Chico, for proposed Proberta-Los Molinos Highway, estimated cost \$16,15, which estimate includes the construction of an overhead crossing 270 ft. south of the present Proberta Crossing.

OAKLAND, Cal.—Until August 20, 4 P. M. bids will be received by G. R. Hegardt, Secretary, City Department, 424 Oakland Bank Bldg., for approximately 22,000 sq. ft. bituminous paving on Ninth Avenue. Plans obtainable from above.

FIRENA, Humboldt Co., Cal.—J. C. Kjer, Arcata, at \$2.35 cu. yd. awarded contract by county supervisors to furnish crushed rock for Pickle Hill road improvement, involving approximately 1000 cu. yds.

MONO COUNTY, Cal.—Kennedy-Bayles Construction Co., Biggs, Calif., at \$161,510 awarded contract by State Highway Commission to grade 12.9 miles between Sonora Junction and Coleville.

SAN DIEGO COUNTY, Cal.—Jahn & Bressi, Los Angeles, at \$171,475 awarded contract by State Highway Commission to pave with Portland cement concrete, 5.4 miles between Balboa Ave. and Torrey Pine road.

ALAMEDA COUNTY, Cal.—Arisss Knapp Co., Oakland, at \$603.30 awarded contract by State Highway Commission to furnish and install perforated metal pipe underdrain between Dublin and Hayward.

KING CITY, Monterey Co., Cal.—Until August 20, 8 P. M., (date advanced from August 11), bids will be received by J. A. Wasson, city clerk, (6) to improve portions of First St., involving grading; hyd. concrete curbs; 5-in. hyd. cem. conc. pavement. 1911 Act. Bond Act 1915. Certified check 10% payable to city required with bid. Plans on file in office of clerk. Howard Cozens, Court House, Salinas, engineer.

SAN BERNARDINO COUNTY, Cal.—Gilmore Oil Co., Los Angeles, at \$405⁸⁰ awarded contract by State Highway Commission to furnish and spread fuel oil on 23.8 miles between Sawmill and Bear Lake on the San Bernardino-Bear Lake Lateral.

SANTA BARBARA, Cal.—Western Motor Transfer Co., 118 State St., awarded contract by the county at \$14,147.50 to grade and construct necessary drainage of Section 1 of the Goleta Foothill Blvd., between Sta. 0 +00 and Sta. 45+00. Other bids were: Henry C. Dalessi, \$15,765.10; Hunter & Richardson, \$15,816.56.

PLACER COUNTY, Cal.—Following three low bids received Aug. 13 by State Highway Commission to construct 531 lin. ft. of tunnel and about 1.0 mile of roadway to be graded and surfaced with crusher run base and oil treated crushed gravel or stone surfacing:

C. M. Morgan Paving Co., Los Angeles \$209,755
W. F. Meade, Oakland 241,627
Geo. Pollock, Sacramento 249,999

SANTA BARBARA & SAN LUIS OBISPO COUNTIES, Cal.—Following three low bids received Aug. 13 by

State Highway Commission to grade and surface with oil treated crushed gravel or stone, 37.9 miles between the second crossing of the Cuyama River and the east boundary of San Luis Obispo County:
Lang Transportation Co., Los Angeles \$261,612
M. J. Bevanda, Stockton 283,740
G. W. Ellis, Los Angeles 312,880

ORANGE COUNTY, Cal.—Following three low bids received August 13 by State Highway Commission to grade and pave with Portland cement concrete, 3.3 miles from Seal Beach to Sunset Beach:
C. M. Morgan Paving Co., Los Angeles \$ 98,432
Mattich Bros., Elsinore 106,113
Jahn & Bressi, Los Angeles 111,866

INDEPENDENCE, Inyo Co., Cal.—Standard Oil Co. at \$1.14 per bbl. f. o. b. Laws, Calif., awarded contract by county supervisors to furnish 60,000 gals. of road oil. Other bids: Gilmore Oil Co., \$1.906; Union Oil Co., \$1.067; Richfield Oil Co., \$1.906; Shell Oil Co., \$2.15.

RED BLUFF, Tehama Co., Cal.—Tehama-Butte Joint Highway District plans to place permanent surface on 12-mile lateral from the Pacific Highway at Proberta to the Capital Highway near Los Molinas. Surveys are being made by Engineer Martin Polk, Chico.

REDWOOD CITY, San Mateo Co., W. A. Dontanville, Salinas, at \$4,862.01 awarded contract by city council (M-9) to improve Maple St. bet. Main St. and Dillers. Addition, involving grading; 6-in. hydraulic cement concrete surface pavement; 3-in. broken stone base and 1-in. sand cushion; hydraulic concrete cement curbs; 4-in. hydraulic cement concrete sidewalks; two hydraulic cement concrete storm water inlets; cement concrete gutters. W. O. Tyson, Redwood City, only other bidder at \$5,288.39.

SAN FRANCISCO—Until September 3, 2:20 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to improve:

Portions of 21st Ave., bet. Lawton and Moraga Sts., and 32nd Ave., bet. Kirkham and Lawton Sts., involving armored concrete curbs; side sewers; 6-in. concrete pavement with 1½-in. asphaltic concrete surface. Est. cost, \$6400.

42nd Ave., bet. Judah and Kirkham Sts. (where not), involving armored concrete curbs; concrete gutters; 6-in. concrete pave with 1½-in. asphaltic surface. Est. cost \$800.

Certified check 10% payable to clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineers, 3rd Floor, City Hall.

SAN CARLOS, San Mateo Co., Cal.—Chris L. Jordan, Belmont, at \$6375 awarded contract by city trustees to improve Holly street from old County Road north to Bayshore Highway. W. O. Tyson, Redwood City, only other bidder at \$6725. County will pay \$4500 of total cost.

SAN LUIS OBISPO, Cal.—Hartman Construction Co., Bakersfield, submitted low bid to District Engineer, State Highway Commission, for highway work in San Luis Obispo county, between Paso Robles and Atascadero, about 9.4 miles in length, where fuel oil to be furnished, applied to the shoulders.

REDWOOD CITY, San Mateo Co., W. O. Tyson, Redwood City at \$3,446.83 awarded contract by city council (M-8) to improve Chestnut St. bet. Heller and Stambaugh Sts., involving grading; 6-in. hydraulic cement concrete surface pavement; 3-in. broken stone base and 1-in. sand cushion; cement concrete curbs, gutters, sidewalks. W. A. Dontanville, Salinas, only other bidder at \$4,201.02.

VALLEJO, Solano Co., Cal.—J. E. Johnston, Sutters and Loan Bldg., Stockton, submitted low bid to city council (172) to improve Florida St. bet. Sonoma Ave. and Alameda St., including crossings, involving reggrading; re-pave with 4-in. base course and 2-in. top course asphalt concrete; 4-in. vitrified clay pipe house lateral sewers.

PLACER CO., Calif.—A. Teichert and Son, 1846 37th St., Sacramento, at \$4060 submitted low bid to C. H. Whitmore, district engineer, State Highway Commission, Sacramento, to apply bituminous surface treatment on 2.9 miles between Roseville and Rocklin.

BAKERSFIELD, Kern Co., Calif.—Dean and Stroble, Box 192, Station A Bakersfield, at \$1,305.43 awarded contract by city council to construct curbs and walks in 18th St. bet. K and T Sts., District No. 604, involving 7,828 sq. ft. concrete sidewalks; 36 lin. ft. concrete curb. Weitzel and Larsen, Bakersfield, bid \$1,375. J. Holfelder, city engineer.

SAN MATEO COUNTY, Calif.—As previously reported, bids will be received September 3 by State Highway Commission to grade 4.1 miles between Redwood City and Willow Road. Project involves: 36,520 cu. yds. rdwy. excav. without class; 77,000 cu. yds. imported borrow; 2,050,090 sta. yds. over-haul; 2890 cu. yds. struc. excav.; 223 cu. yds. class A Portland cem. conc. (struc.); 20,670 lbs. bar reinf. steel (struc.); 744 lin. ft. 15-in., 3150 lin. ft. 18-in. and 120 lin. ft. 24-in. corrugated metal pipe; 15 each, removing trees (size 1); 23 each, removing trees (size 2); 14 each, removing trees (size 3); 216 sta. finish roadway; 3.1 miles new property fence; 20 each, monuments, complete in place. State will furnish corrugated metal pipe and cast steel frames and covers for drop inlets.

MONTEREY, Monterey Co., Cal.—City council declares intention (2997) to construct 6-inch vitrified sewer in Grace St., from Irving Ave. to point 25 ft. n. w. of Prescott Ave., including two manholes and 36 4-in. wye branches. 1911 Act. Bond Act 1915. Hearing Sept. 2. Clyde A. Dorsey, city clerk.

OAKLAND, Calif.—City council declares intention to improve Bullard Drive from Estate Drive southeast, involving grade; curbs; gutters; pave. 1911 Act. Hearing August 28. Frank C. Merritt, city clerk. Walter N. Crickstad, city engineer.

NO NOT RISK AN EXPERIMENT

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NAPA, Napa Co., Calif.—San Jose Excavating Co., San Jose, at \$19,990 awarded contract by county to grade and surface road through Berryessa Valley. Project involves grading, nine miles in length. Approximate quantities involved follow: 23,000 cu. yds. grading, unclassified; 9,000 cu. yds. crushed rock surfacing, in place. Following is a complete list of the bids received: San Jose Excavating Co., San Jose

Jose	\$19,990
Highway Builders, Inc.	20,200
W. C. Colley	20,460
Monsford & Armstrong	20,730
Allan & Christie	22,560
George French, Jr.	23,580
Chas. Chittenden	26,590
J. B. Gillan	34,050

RICHMOND, Contra Costa Co., Cal. Union Paving Co., Cal. Bldg. San Francisco, at approximately \$12,000 submitted only bid to city council (476) to improve Pullman Ave. bet. Cutting Blvd. and Panhandle Blvd., and Panhandle Blvd. bet. Pullman Ave. and Del Norte Place, and portions of Cutting Blvd., 45th, 47th and Monterey Sts., involving grading; pave with 4-inch broken stone cushion with three-course asphalt concrete pavement, consisting of two-course base of 6-inch asphalt conc. and 2-inch asphalt conc. surface; cem. conc. curbs with galv. steel curb bars; cem. conc. gutters, walks; corr. iron pipe inlets; corr. iron and cem. conc. culverts. Taken under advisement for one week.

SAN FRANCISCO—Until September 3, 2:30 P. M. bids will be received by S. J. Hester, secretary, Board of Public Works, to improve:

Portions of 12th and 29th Aves., bet. Moraga and Noriega Sts.; 29th Ave., bet. Noriega and Ortega Sts., etc., (where not), involving armored concrete curbs; 6-in. ironstone pipe side sewers; 6-in. concrete pavement with 1½-in. asphaltic concrete surface. Est. cost, \$11,200.

Uncompleted portions of 26th Ave., bet. Ortega and Pacheco Sts., etc., involving armored concrete curbs; side sewers; 6-in. concrete pavement with 1½-in. asphaltic concrete surface. Est. cost \$6000.

Certified check 10% payable to clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, Third Floor, City Hall.

SAN FRANCISCO—Until September 3, 2:30 P. M. bids will be received by S. J. Hester, secretary, Board of Public Works, to improve:

22nd Ave., bet. Moraga and Noriega Sts. (where not), involving armored concrete curbs; 6-in. concrete pavement with 1½-in. asphaltic concrete surface. Est. cost \$800.

Certified check 10% payable to clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, Third Floor, City Hall.

OAKLAND, Cal.—Proceedings have been started by the city council to improve Hopkins St., from Coolidge Ave. to High St. and from High St. to Seminary Ave. and a portion of Seminary Ave. from Camden to Trenor Sts. Estimated cost \$300,000. Bids will be asked on "open paving" specifications. Walter N. Frickstad is city engineer.

ARCATA, Humboldt Co., Cal.—Until August 22, 8 P. M., bids will be received by Lester A. Johnson, city clerk, for grading and surfacing fourteen blocks of streets in various sections of the city. Certified check 5% required with bid. Specifications on file in office of clerk.

SAN BERNARDINO COUNTY, Cal.—H. W. Rohi Co., Los Angeles, at \$187,325 awarded contract by State Highway Commission to grade and surface with untreated crushed gravel or stone, 9.5 miles between 1½ miles southwest of Dunn and Cornish Valley.

PLACER COUNTY, Cal.—N. M. Ball Porterville, at \$62,253 awarded contract by State Highway Commission to grade and pave with cement concrete, 1.7 miles through Lincoln.

OROVILLE, Butte Co., Calif.—Until August 25, 2 P. M., bids will be received by C. F. Belding, county clerk, to maintain the following roads for a period of one year: Humboldt road from Chico to Summit at county line; River road from Chico to Sutter Ave.; Larkin Ave. from Oroville-Gridley Rd. to Oroville-Nelson Rd.; Tres Vios Rd. from Thermalito to Shippee Rd. Cert check 10% required with bid. Plans obtainable from County Road Engineer J. A. Bungarner, at Oroville.

RIVERSIDE COUNTY, Calif.—Bert Noble, San Diego, at \$55,609 awarded contract by State Highway Commission to grade and surface with untreated crushed gravel or stone, 16.2 miles between Desert Center and 9½ miles west of Hopkins Well.

SAN RAFAEL, Marin Co., Cal.—Until August 18, 11 A. M., bids will be received by Rob E. Graham, county clerk, to surface the Upper Novato-Black Point road from the Redwood Highway to the Lower Black-Point road, 1.9 miles in length, to be sur-

faced with 180,500 sq. ft. emulsified asphalt and screenings in place. Specifications obtainable from County Surveyor Rodney Messner at San Rafael.

SAN RAFAEL, Marin Co., Cal.—Until August 18, 11 A. M., bids will be received by Rob E. Graham, county clerk, to surface the Olema-Bolinas road, from 1 mile south of Olema to Five Brooks, 2.5 miles in length, involving 266,000 sq. ft. of emulsified asphalt and screenings in place. Specifications obtainable from Rodney Messner, county surveyor.

SAN RAFAEL, Marin Co., Cal.—Until August 18, 11 A. M., bids will be received by Rob E. Graham, county clerk, to surface Point San Pedro road from Point San Pedro School to Santa Venetia, 5.8 miles in length, involving 552,000 sq. ft. emulsified asphalt and screenings in place. Specifications obtainable from County Surveyor Rodney Messner at San Rafael.

SANTA ROSA, Sonoma Co., Cal.—Until August 19, 8 P. M., bids will be received by Noy L. Donovan, city clerk (1627) to improve Cleveland Avenue between Carrillo St. and Ridgeway Ave., involving grading; 4-inch macadam base with 3-inch asphaltic concrete surface pavement, laid in one-course; hydraulic cement concrete curbs and gutters, 1911 Act. Bond Act 1915. Certified check 10% payable to city required with bid. Plans on file in office of clerk.

SAN RAFAEL, Marin Co., Calif.—Highway Builders, Ltd., 640 Redhill Ave., San Anselmo, at \$9,412.50 awarded contract by county supervisors to improve Lucas Valley road from the County Farm to the Big Rock, a distance of 3.6 miles, involving:

- (1) 18,000 cu. yds. excav. unclassified;
- (2) 15,000 sta. yds. overhaul;
- (3) 1,068 lin. ft. 12-inch corrugated metal pipe;
- (4) 180 lin. ft. 18-in. do;
- (5) 128 lin. ft. 24-in. do;
- (6) 150 lin. ft. 6-inch drain tile in place;
- (7) 23 cu. yds. class A Portland cement concrete (headwalls);
- (8) 400 lbs. reinf. steel (headwalls);

County will furnish corrugated metal pipe.

Following is a complete list of bids received:

- | | |
|--------------------------------------|--|
| (a) Highway Builders, Inc., \$9,412. | (d) Granfield, Farrar & Carlin, \$14,719 |
| (b) Liebert & Trobeck, \$10,209. | (e) F. J. Main, \$16,420. |
| (c) F. C. Cuffe, \$13,796. | (f) Engineer's estimate, \$11,590. |

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a)	\$43	\$02	\$50	\$50	\$75	\$75	\$20	\$05
(b)	.465	.02	.50	.65	.85	.75	23	.08
(c)	.65	.02	.60	.80	1.00	1.50	23	.06
(d)	.70	.02	.60	.70	.90	1.70	26	.06
(e)	.78	.62	.90	1.35	1.50	.50	23	.05
(f)	.65	.02	.60	.50	1.00	1.50	25	.06

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BLACKSMITHING AND WELDING

Builders of Rosenberg Portable Car Unloaders

CREAR & BATES

57 Zoe St., bet. 3rd and 4th, off Brannan St.

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San Francisco

SALINAS, Monterey Co., Cal.—Granite Construction Co., Watsonville, at \$27,907.16 awarded contract by city council (90) to improve portions of Archer St., Homestead Ave., Buena Vista St. and Central Ave., involving grading; hydraulic cement concrete curbs; 5-in. hydraulic cement concrete pavement; 3½ inch hydraulic cement concrete sidewalks.

SALINAS, Monterey Co., Cal.—W. A. Dontanville, Salinas, at \$4990.30 awarded contract by city council (89) to improve Spring St., bet. Griffin and Sumner Sts., involving grading hydraulic cement concrete curbs; 5-in. hydraulic cement concrete pavement; 3½-in. hydraulic cement concrete sidewalks.

COLUMBIA COUNTY, Cal.—Until August 20, 2 P. M., bids will be received by C. H. Whitmore, district engineer, State Highway Commission, 502 State Office Bldg., Sacramento, to construct property once on 9 miles of highway between Bear Creek and 8 miles west of Williams.

See call for bids under official proposal section in this issue.

PACIFIC GROVE, Monterey Co., Cal.—City Council declares intention (3234) to improve Grand Ave. bet. Ocean View Ave. and Park Place and Park Place, bet. Fountain and Forest Aves., involving cement concrete gutters; and surfaced with oiled macadam, using "Duremulse" emulsified asphalt. 1911 Act. Bond Act 1915. Hearing August 21. W. G. Stubbs, city clerk.

VISALIA, Tulare Co., Cal.—City council declares intention (136-C) to improve portions of West Race St., West Grove St., Highland Ave., North Willis St., etc., involving construction of hydraulic cement conc. curbs, drive-ways and sidewalks. 1911 Act. Bond Act 1915. Hearing Aug. 25. Ida Markham, city clerk.

OAKLAND, Cal.—Until August 21, 12 noon, bids will be received by Frank C. Merritt, city clerk, to improve portions of Marguerite Dr. and Hillview Lane, involving grading and paving; cem. sidewalks; concrete gutters; storm water drain. 1911 Act. Certified check 10% payable to city required with bid. Plans on file in office of clerk. Walter N. Frickstad, city engineer.

SAN CARLOS, San Mateo Co., Cal.—W. O. Tyson, Redwood City, at \$1832 awarded contract by San Carlos Elementary School District, to grade and pave school yard. Union Paving Co., San Francisco, only other bidder at \$1879.

GILROY, Santa Clara Co., Cal.—City council declares intention (16) to improve portions of Dowdy St., Hanna St., Rosanna St., etc., involving grading; asphaltic concrete paving; cement concrete curbs; gutters and sidewalks; storm water sewers; catchbasins. 1911 Act. Bond Act 1915. Hearing August 21. Raymond W. Fisher, engineer. E. F. Rogers, city clerk.

OAKLAND, Cal.—City council declares intention to improve portions of East 12th St. from First Ave. s. e. and portions of certain Aves. adjacent to East 12th St., involving grade; curbs; gutters and paving; cem. walks; drainage structures. 1911 Act. Hering August 28. Frank C. Merritt, city clerk. Walter N. Frickstad, city engineer.

HILLSBOROUGH, San Mateo Co., Cal.—A. J. Ralsch, 46 Kearny Street, San Francisco, at \$1941 awarded contract by town trustees to pave bet. present paving in Walnut Avenue and Florabunda Ave.

OROVILLE, Butte Co., Cal.—County supervisors reject bids to grade Lumpkin road; estimated cost \$10,000. New bids will probably be asked or the work started by force account under the supervision of J. A. Baumgarner, county road engineer.

SALINAS, Monterey Co., Cal.—Until September 2, 10 A. M., bids will be received by C. F. Joy, county clerk, to crush and stockpile broken stone at Greenfield in Supervisor District No. 3. Specifications obtainable from Co. Surveyor Howard Cozzens on deposit of \$10, returnable.

WILLOWS, Glenn Co., Cal.—J. O. Schwensen, Sacramento, at \$12,693 awarded contract by county supervisors to construct 6 miles of paved road from Fruto easterly; known as Fruto-Willows road. Other bids: Highway Builder, Ltd., Oakland, \$12,844; A. Telchert & Son, Sacramento, \$14,368; Henmstreet & Bell, Marysville, \$16,950.

CRESCENT CITY, Del Norte Co., Cal.—Until August 27, 11 A. M., under Specification No. 6260, bids will be received by Public Works Officer, Mare Island Navy Yard, for maintaining road to U. S. Naval Radio Compass Station at Point St. George, Crescent City. Specifications obtainable from Island Navy Yard.

MARYSVILLE, Yuba Co., Cal.—Until August 18, 10 A. M., bids will be received by W. M. Strief, county clerk, to pave portion of Feather River Blvd. extending across Plumas Lake. Cert. check 10% payable to county clerk required with bid. Plans obtainable from clerk on payment of \$1, not returnable.

MARYSVILLE, Yuba Co., Cal.—Until August 18, 10 A. M., bids will be received by W. M. Strief, county clerk, to pave a shoulder 2½ feet wide along the west edge of District Ten Highway. Certified check 10% payable to county clerk required with bid. Plans obtainable from clerk on payment of \$1, not returnable.

SAN FRANCISCO—C. B. Eaton, 715 Ocean Ave., at \$20,663 awarded contract by Board of Public Works to improve Ulloa St. bet. 35th and 38th Aves., and 36th and 37th Aves., between Taraval and Vicente Sts.

SAN FRANCISCO—C. B. Eaton, 715 Ocean Ave., at \$46,338 awarded contract by Board of Public Works to improve portions of streets in the Castro Street Addition and Glen Park Terrace, involving grading; armored concrete curbs; concrete walks; 2-inch asphalt concrete surface pavement on 6-in. class F concrete base; brick catchbasins and manholes; side sewers.

ELKO COUNTY, Nevada—Utah Construction Co., Ogden, Utah, at \$117,683.54 awarded contract by State Highway Commission to grade, construct structures and place surfacing material on 23.22 miles between 3 miles north of Wells and Thousand Springs Creek. Project involves: 154,500 cu. yds. excav., unclassified; 163,441 yds. sta. overhaul; 23.21 mile prepare subgrade and shoulders; 50,600 cu. yds. crushed rock or crushed gravel in stockpile; 235 cu. yds. class A concrete; 194 cu. yds. class B concrete; 2694 lin. ft. install 18-in., 772

lin. ft. 24-in., 762 lin. ft. 30-in. and 324 lin. ft. 36-in. corr. metal pipe; 240 cu. yds. riprap; 80 monuments; 2 posts for Federal Aid markers; 750 lbs. bearing plates and rollers; Dodge Bros., Fallon, Nev., bid \$121,308. Engineer's estimate \$135,852. California Corrugated Culvert Co., West Berkeley, Calif., at \$5379.40 awarded contract for culverts in connection with this project. Engineer's estimate \$6028.80.

MENDOCINO COUNTY, Cal.—E. C. Coates, Sacramento, at \$35,289 awarded contract by State Highway Commission to grade and surface with untreated crushed gravel or stone and construct timber bridges on two miles between McDonald and Wendling.

HAYWARD, Alameda Co., Cal.—Until August 20, 8 P. M., bids will be received by M. B. Templeton, city clerk, (805) to improve portions of Smalley and Laurel Aves. and Belmar and Princeton Sts., involving:

- (1) 165,450 sq. ft. 6-in. full penetration emulsified asphalt macadam paving (including grading);
- (2) 10,723 lin. ft. concrete curbing;
- (3) 21,202 sq. ft. concrete gutter;
- (4) 42,850 sq. ft. concrete sidewalks;
- (5) 1,297 lin. ft. 6-in. vitrified sanitary sewer;
- (6) 1,350 lin. ft. 4-inch vitrified side sewer;
- (7) 36 48-in. wye branches;
- (8) 4 vit. pipe lampholes with concrete and c. i. frames;
- (9) 340 lin. ft. concrete and part circle corr. iron drain culverts
- (10) 157 lin. ft. r'dwood header boards. 1911 Act. Certified check 10% payable to Arthur E. Manter, mayor of Hayward, required with bid. Specifications obtainable from Jesse C. Holly, city engineer, on deposit of \$5, returnable.

OWNER ENTITLED TO DAMAGES FOR LUMBER SUBSTITUTION

A recent ruling of the Minnesota supreme court permitted an owner to recover damages for substitution of west coast hemlock for Douglas fir on a building job, according to the Master Builder of Milwaukee. A dwelling was erected by Thomas Bean, defendant, at Green Isle, Minn. He purchased the lumber therefor from the Midland Lumber & Coal Co., plaintiff, at that place, and specified fir for the studding, sheathing and subflooring. A carpenter and contractor were employed to do the work. The lumber company delivered hemlock instead of the specified fir for the studding, sheathing and subflooring.

After the building was completed and occupied defects appeared. Mr. Bean made a claim against the carpenter, but the latter claimed that the defects were caused by the shrinking of the hemlock lumber. The lumber company filed a lien for the balance due on the purchase price of the lumber and sought to foreclose the lien. Mr. Bean set forth a counterclaim for damages because the company had furnished hemlock instead of fir.

The court held that the evidence was sufficient to support the finding that the defects resulted from the use of hemlock, and that Mr. Bean had no knowledge of the substitution until after the completion of the building. Since the hemlock used had to be retained, Mr. Bean was held to be entitled to damages resulting from its inferior quality, despite the company's showing that under the grading rules of the West Coast Lumbermen's Association, fir and west coast hemlock were used interchangeably in the grades and classes of lumber in question. (Midland Lumber & Coal Co. vs. Bean et al; Minn. Sup. Ct., June 6, 1930).

Contracts Awarded

Liens, Acceptances, Etc.

BUILDING PERMITS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
1004	Carlin	Phelan	8000
1006	Liebes	Emanuel	2000
1007	Lefkowitz	Sommer	5000
1008	Anderson's	Magnuson	11000
1008	MacKinnon	Owner	2500
1009	Herbst	Siegrist	12000
1010	Turner	Martin	1500
1011	Fischer	Hardy	1000
1012	Nisley	Dinwiddie	4000
1013	Sorbi	Owner	3500
1014	Sullivan	Owner	5000
1015	Raven	Chiappa	8000
1016	Standard	Lindgren	1500
1017	Meyer	Owner	8000
1018	Arnott	Owner	8000
1019	Marion	De Velbiss	1455
1020	Roberts	Owner	1000
1021	Sommer	Owner	1000
1022	Roman	Bryant	22650
1023	Sutkamp	Merrill	4000
1024	Standard	Owner	6800
1025	Pioneer	Mullen	1800
1026	Barnacle	Horn	3500
1027	Goodrich	Owner	40000
1028	Risdon	Owner	7000
1029	Perdue	Owner	1500
1030	Serensky	Owner	2000
1031	Risdon	Owner	6000
1032	McDonald	Owner	6000
1033	Johnson	Owner	4000
1034	Johnson	Owner	4000
1035	Tamola	Henzel	1500
1036	Cereal	Forbes	19800
1037	Bank	Parker	225000
1038	Augustiney	Armbrust	4000
1039	Holmgren	Owner	4000
1040	Lynn	Owner	30000
1041	Riechel	Bartlett	1500
1042	Johnson	Owner	10500
1043	Rapoulos	Owner	4000
1044	Standard	Owner	5500

DWELLING

(1004) W 14th AVE 175 S Vicente; two - story and basement frame dwelling.

Owner—D. Carlin, 180 Dolores St.
Architect—C. M. Baker, 155 Montgomery St.

Contractor—P. J. Phelan, 646 20th Ave.
\$5000

ALTERATIONS

(1005) SE GRANT AVE. and Post St.; alterations to building.
Owner—H. Liebes & Co., Post Street and Grant Ave.

Architect—None.
Contractor—L. and E. Emanuel, Inc., 2665 Jones St.
\$2000

BUILDING

(1006) N HOWARD 125 E 9th Street; 1-story and mezzanine floor light industrial building.

Owner—J. and H. Lefkowitz, 901 Bryant St.

Architect—None.
Contractor—I. M. Sommer & Co., 901 Bryant St.
\$5000

ALTERATIONS

(1007) 1337 VALENCIA ST.; alterations and additions to building.
Owner—Anderson's Funeral Parlors, 1337 Valencia St.

Architect—None.
Contractor—Magnuson & Peterson, 175 Vasquez Ave.
\$11,000

ALTERATIONS

(1008) 712 COLE ST.; alterations to dwelling for two flats.

Owner—C. MacKinnon, 714 Cole St.
Architect—None.
\$2500

ALTERATIONS

(1009) NW ELEVENTH and Mission; alterations for tire, repair and greasing sales shop; two one-story and mezzanine steel frame class C building.

Owner—J. H. and H. Herbst, 1524 Mission St.
Engineer—N. B. Green, Sharon Bldg.
Contractor—F. R. Siegrist, 604 Mission St.
\$12,000

ALTERATIONS

(1010) 333 TEHAMA ST.; alterations and additions to storage building.
Owner—The Turner Co., 329 Tehama.

Plans by Builder.
Contractor—W. Martin, 666 Mission St.
\$1500

ALTERATIONS

(1011) 1256 CHURCH ST.; alterations to flat and store.

Owner—Miss A. Fischer, 1256 Church Street.
Architect—None.
Contractor—A. M. Hardy, 212 Ritch.
\$1000

ALTERATIONS

(1012) 35 GRANT AVE.; alterations to store fronts, mezzanine floor, etc.

Owner—Nisley Shoe Co., 35 Grant Ave.
Plans by Grand Rapids Store & Equip. Co., Russ Bldg.
Contractor—Dinwiddie Const. Co., Crocker Bldg.
\$4000

DWELLING

(1013) E MADRID 125 S Brazil; one-story and basement frame dwelling.

Owner—P. Sorbi, 534 Edinburgh, Plans by Owner.
Contractor—A. Sorbi, 224 Russia St.
\$3500

DWELLINGS

(1014) E KEYSTONE 92 N Ocean; two 1-story and basement frame dwellings.

Owner—T. J. Sullivan, 1967 Ocean Ave.
Architect—None.
each \$5000

ADDITION

(1015) N LOMBARD 141 W Octavia; one-story and mezzanine class C addition to sales and show room.

Owner—A. Raven, 1730 Lombard St.
Architect—W. H. Armitage, 72 New Montgomery St.
Contractor—C. Chiappa and Co., 1109 Montgomery St.
\$8000

CAPITAL CITY TILE COMPANY

J. C. PALEN

Manager

914 Seventh Street

Sacramento - - - California

RETAINING WALL

(1016) W POTRERO AVE. 100 N 16th St.; concrete retaining wall

Owner—Standard Oil Co., 225 Bush St.
Plans by Owner.
Contractor—Lindgren and Swiherton, 625 Standard Oil Bldg.
\$1500

DWELLINGS

(1017) S ROCKDALE 206 W Repos. St.; one-story and basement frame dwellings.

Owner—Meyer Bros., 727 Portola Dr.
Plans by D. T. Burke, 727 Portola Dr.
each \$4000

DWELLINGS

(1018) E 16th AVE. 275 N Santiago; two 1-story and basement frame dwellings.

Owner—J. Arnott, 633 Taraval St.
Architect—None.
each \$4000

REPAIRS

(1019) 230 NINTH ST.; repair fire damage.

Owner—J. M. Marion, Stanford Court Apts.
Architect—None.
Contractor—C. D. De Velbiss, 359 Pine Street.
\$1455

FENCE

(1020) 48th AVE. and Rivera; 16-in. glass fence for miniature golf course.

Owner—W. J. Roberts, 2200 Gt. Highway.
Architect—None.
\$1000

GOLF COURSE

(1021) W MISSION ST. bet. Castle Manor and Admiral Ave.; miniature golf course and office.

Owner—J. M. Sommer, 901 Bryant St.
Architect—None.
\$1000

ALTERATIONS

(1022) SE 40th AVE. and Balboa; alterations and additions to church.

Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St.
Architect—G. E. McCrea, Hearst Bldg.
Contractor—J. A. Bryant, 185 Stevenson St.
\$22,650

DWELLING

(1023) SE FUNSTON AVE. and Santiago; one - story and basement frame dwelling.

Owner—A. C. Sutkamp, 2320 Funston. Plans by Owner.
Contractor—R. W. Merrill, 1244 19th Street.
\$4000

TANKS & FIRE WALL

(1024) NW BEACH & JONES STS.; two steel tanks and concrete fire wall.

Owner—Standard Oil Co. of California, 225 Bush St.
Plans by Engineering Dept. of Owner
\$6800

ALTERATIONS

(1025) N MARKET 100 E Grove Sts.; alterations to restaurant & front.

Owner—Pioneer Tamale Cafe, 1204 Market St.
Architect—None.
Contractor—Mullen Manufacturing Co., 60 Rausch St.
\$1800

DWELLING

(1026) NE HAMILTON 175 NW 80th; man, 1-story and basement dwelling.

Owner—T. P. Barnacle, 490 26th St.
Architect—None.
Contractor—Jessie H. H. H., 344 M Street.
\$800

SERVICE BLDG.
(1027) SW ELEVETH and Howard;
one-story class C tire service bldg.
Owner—Goodrich Silvertown, Inc., 1659
Pine St.
Architect—W. Mellena, 422 Beaux Arts
Bldg., Los Angeles. \$40,000

DWELLING
(1028) S MARINA 102 W Boderick;
two-story and basement frame
dwelling.
Owner—Ridson Bros., 2170 Beach St.
Plans by Owners. \$7000

ALTERATIONS
(1029) 1061 MARKET ST.; alterations
for indoor golf course.
Owners—A. L. Perdue and B. H. Stew-
art, 746 Geary St.
Architect—None. \$1500

STORE
(1030) NW GROVE and Divisadero;
one-story frame store.
Owner—J. Serensky, NW Grove and
Divisadero Sts.
Plans by J. Binet, 2454 33rd Ave. \$2000

DWELLING
(1031) S MARINA 137 W Broderick;
two-story and basement frame
dwelling.
Owner—Ridson Bros., 2170 Beach St.
Plans by Owners. \$6000

DWELLINGS
(1032) W 27th AVE. 150 S Rivera;
two 1-story and basement frame
dwellings.
Owner—D. B. Macdonald, 1505 Hop-
kins St.
Plans by Owner. each \$3000

DWELLING
(1033) N FRANCE 75 E Athens; one-
story and basement frame dwell-
ing.
Owner—G. G. Johnson, 1175 Munich
Street.
Architect—None. \$4000

DWELLING
(1034) W MERRILL 37 N Hale; one-
story and basement frame dwell-
ing.
Owner—T. Johnson, 136 Westwood Dr.
Architect—None. \$4000

ALTERATIONS
(1035) 20118 MARIPOSA ST.; altera-
tions and additions to dwelling.
Owner—N. and J. Tamola, 2018 Mari-
posa St.
Architect—None.
Contractor—L. Henzel, 873 Capp St. \$1900

BUILDING
(1036) SE FULTON and WEBSTER;
two-story and basement concrete
industrial building.
Owner—Cereal Products Refining Co.,
Fulton and Webster Sts.
Engineer—J. A. Wright, 381 Bush St.
Contractor—R. J. H. Forbes, 1050 Mo-
nadnock Bldg. \$19,800

OFFICES
(1037) NE MONTGOMERY and Com-
mercial Sts.; nine-story and base-
ment class A office building.
Owner—Bank of Italy, 550 Montgom-
ery St.
Architect—H. A. Minton, Underwood
Building.
Contractor—K. E. Parker Co., 135 So.
Park. \$225,000

DWELLING
(1038) S HOLLOWAY 50 E Ralston;
one-story and basement frame
dwelling.
Owner—F. E. Augustiney, 1114 Page
Street.
Architect—None.
Contractor—H. A. Armbrust, 2472 23th
Avenue. \$4000

DWELLING
(1039) N MADRID 75 W Italy; one-
story and basement frame dwell-
ing.
Owner—V. Holmgren, 55 Allison.
Architect—None. \$4000

APARTMENTS
(1040) NE BRODERICK Street and
Golden Gate Ave.; three-story and
basement frame (12 apts).
Owner—C. E. Lynn, 1435 Steiner St.
Plans by L. O. Berg, 675 Corbett Ave. \$30,000

ALTERATIONS
(1041) 460 EDDY ST.; alterations to
garage for miniature golf course.
Owner—J. Reichel, 460 Eddy St.
Plans by California Studios, 1723 Tel-
egraph Ave., Oakland.
Contractor—Bartlett and Gelssler, 82
Merritt St. \$1500

DWELLINGS
(1042) E 26th AVE. 175 S Ulloa; three
1-story and basement frame dwell-
ings.
Owner and Builder—N. E. Johnson,
666 Mission St. each \$3500
Architect—None.

DWELLING
(1043) NW BRUSSELS and Hark-
ness; 1-story and basement frame
dwelling.
Owner—C. M. Rapoulos, 1166 James-
town Ave.
Architect—None. \$4000

SERVICE STATION
(1044) NW CALIFORNIA and Stein-
er Sts.; one-story steel frame gas
service station.
Owner—Standard Oil Co., 225 Bush St.
Architect—None. \$5000

BUILDING CONTRACTS

San Francisco County

No. Owner	Contractor	Amt.
166 Carlin	Phelan	11350
167 Anderson	Magnuson	15100
168 Worswick	Mattock	7900

BUILDING & GARAGE
(166) COMG AT PT 175 S Vicente
and 127-6 E 15th Ave S 50 x E
127-6; all work on 1-story frame
building and basement garage.
Owner—E. and D. Carlin.
Architect—None.

Contractor—P. J. Phelan, 646 20th Ave.
Filed Aug. 7, '30. Dated Aug. 5, '30.
Frame up\$2837.50
Brown coated2837.50
Completed and accepted2837.50
Usual 35 days2837.50

Bond, \$5675. Sureties, J. Smyth and
T. McCormick. Limit, 90 days. Plans
and Spec. filed.

ALTERATIONS
(167) 1332-5-7-9 VALENCIA Street;
alterations and additions to house
and funeral parlors.
Owner—Mary E. Anderson, 1387 Va-
lencia St.
Architect—None.

Contractor—Magnuson & Peterson, 175
Vasquez Avenue.
Filed Aug. 8, '30. Dated Aug., '30.
Roof boards laid\$375
Brown coated375
Completed and accepted375
Usual 35 days375

TOTAL COST, \$15,100
Bond, \$7550. Sureties, Jos. Rolando,
Anton Carlson. Limit, 100 days. Plans
and Spec. filed.

BUNGALOW
(168) E THIRTY-NINTH AVE 217-6
S Clement. All work for frame
bungalow.

Owner—Mary A. Worswick and I. M.
Sturkl.
Architect—W. Wethered, 255 Harold
St., San Francisco.
Contractor—A. F. and C. W. Mattock,
210 Clara St., San Francisco.
Filed Aug. 13, '30. Dated July 25, '30.
As work progresses75%
Usual 35 days25%
TOTAL COST, \$7900
Bond, none. Limit, 120 days after
July 30. Forfeit, none. Plans and
specifications filed.

COMPLETION NOTICES

San Francisco County

Recorded	Accepted
August 7, 1930—E GOUGH 25 North Chestnut. Attilio E. and Albin Chiesa to whom it may concern.....	January 3, 1930
August 7, 1930—368 MONTALM St. N Montcalm 45 E Alabama St E 32 N 25. R W Smale to whom it may concern.....	August 5, 1930
August 6, 1930—W ALEMANY Blvd 125 N Santa Rosa Ave. Harry Gor- don to whom it may concern.....	August 6, 1930

August 6, 1930—COMG 83 NE 19th and Douglas E 34 x N 145. Her- man G Vogel to Geo G Baumgart- ner.....	August 4, 1930
August 8, 1930—E HOWARD N 24th, 2781 Howard St. Nora O'Brien to Wm Horstmeier.....	August 6, 1930
August 8, 1930—LOT 24 BLK 20, E Sub No 4, Miraloma Park NE Wa- wona and 21st Ave N 25 x E 82-6. Meyer Bros to whom it may con- cern.....	August 6, 1930
August 8, 1930—E 30th AVE 150 S Ulloa S 25 x E 120. W P Coles to whom it may concern.....	Aug. 8, 1930
August 8, 1930—E 30th AVE 175 S Ulloa S 25 x E 120. W P Coles to whom it may concern.....	Aug. 8, 1930
August 8, 1930—W SAN BRUNO Ave bet Woolsey and Dwight, 2924 San Bruno Ave. M P O'Connor to CH Westlund.....	August 8, 1930

August 8, 1930—SW 18th and Shot- well W 122-6 x S 155. Langen- dorf United Bakeries, Inc. to Bar- rett & Hilp.....	August 6, 1930
August 8, 1930—E SCOTT 75 South Chestnut S 25 x E 110 Blk 415 WA. S Monzani to Phillip Miller and Sons.....	August 8, 1930

August 8, 1930—W 45th AVE bet Balboa and Cabrillo 150 N Cabril- lo. Harry and Florence Simpson to whom it may concern.....	August 7, 1930
August 12, 1930—E CAROLINA 175 S 30th S 25 x E 100 PN 196. Mar- shall T Struthers to Gerald J Con- way.....	August 11, 1930
August 11, 1930—65 MARKET ST. Southern Pacific Company to E Sugarmen.....	August 9, 1930
August 11, 1930—65 MARKET ST. Southern Pacific Company to J. Piasecki.....	August 9, 1930
August 11, 1930—SW FILBERT and Scott Sts. Catherine De Martini to Robinson & Johnston.....	August 9, 1930

August 11, 1930—W 17th AVE 125 S Santiago. Jacob and Helena Ma- ger to whom it may concern.....	August 11, 1930
August 9, 1930—SE PAUL AVE & Exeter. D P Harkins to E Wlan- der.....	August 9, 1930
August 9, 1930—PTNS LOTS 37, 38, 39, 40 and 41 Blk 6970 Subdiv N Geneva Terrace desc NE Geneva 0-4 NW lot 41 NW 25-01 x SE 105; Lots 21, 23, 24, 25, 26, 27, 28 Blk 6971-A Sub No 11, Geneva Ter- race. Henry and Hazel Stoneson to whom it may concern.....	August 6, 1930

LIENS FILED

San Francisco County

Recorded Amount
 Aug. 4, 1930—NE APPLETON AVE 52-3 SE Mission SE 39 x NE 34. B Tanklage as Liberty Mill and Cabinet Co vs Ernest Watson. \$122.50
 Aug. 4, 1930—NE APPLETON AVE 52-3 SE Mission SE 39 x NE 34. F G Norman as F G Norman and Sons vs Ernest Watson. \$17.62
 Aug. 4, 1930—NE APPLETON AVE 52-3 SE Mission SE 39 x NE 34. Jas E Lennon Lime and Cement Co vs Ernest Watson. \$9.11
 August 4, 1930—E 11th AVE 200 N Noriega N 25 x E 120. S Tutty vs Ernest Watson. \$46
 August 4, 1930—E 11th AVE 200 N Noriega N 25 x E 120. J I Meeks as J I Meeks & Co vs Ernest Watson. \$92.50
 August 4, 1930—E 11th AVE 200 N Noriega N 25 x E 120. J S Guerin and Co vs Ernest Watson. \$109.80
 August 4, 1930—SW PACIFIC AVE and Buchanan W 62-6 x S 127-84. Jesse Shay vs I Epp & Sons. \$4972.50
 August 7, 1930—LOT 30 BLK 143, map of Brown Est Co Sub, University Mound. Merner Lumber Co vs Laverne A and Estella Booker. \$56.67
 August 7, 1930—LOT 32 BLK 143, map of Brown Est Co Sub, University Mound. Merner Lumber Co vs Laverne A and Estella Booker. \$56.66
 August 7, 1930—LOT 31 BLK 143, map of Brown Est Co Subdiv of ptn University Mound. Merner Lumber Co vs Laverne A and Estella Booker. \$56.67
 August 7, 1930—LOTS 30, 31 and 32 Blk 143, Brown Estate Co Sub ptn University Mound. J Cassatt vs E and L A Booker. \$392.95
 August 6, 1930—NE APPLETON AVE 52-3 SE Mission SE 39 x NE 34. Sam Lieb as National Sheet Metal Works vs E Watson. \$132.75
 August 8, 1930—NE SENECA AVE 50 NW Mission NW 43 x NE 50 Blk 1 Oscar Heyman & Brother Sub West End Map No 1. John Pellegrini as Progressive Tile & Mantel Co vs E Evangelisti, Michael and Emerinda Miraglia. \$525
 August 8, 1930—SW PACIFIC AVE and Buchanan W 62-6 x S 127-84. J Shay vs I Epp & Sons. \$3856.50
 August 8, 1930—OTS 31, 32 and 30 Blk 143, Brown Estate Co Subdiv. University Mound. San Francisco Terrazzo Assn vs L A and E Booker. \$168
 August 8, 1930—E BAKER ST 25-34 N Sacramento St N 25-6 x E 102-6. San Francisco Terrazzo Assn vs G H Augustine, H and E Sonenschein. \$21
 August 8, 1930—NE QUESADA 450 SE Hawes SE 100 x NE 100. Louis J Gallagher vs V J Tiffany. \$1360
 August 8, 1930—NE QUESADA AVE 150 NW Griffith NW 75 x NE 100. Louis J Gallagher as admin of Estate of E J Gallagher, dec'd vs A P Campodonico, Marian F Pettigill and Ethel M Freisinger. \$1020
 August 11, 1930—NE SENECA ST 50 W Mission St N 50 x W 43. G Mazzeria Co, \$208.75; Spediacchi Bros, \$543.95; E and M Miraglia and E Evangelisti.
 August 11, 1930—NE SENECA AVE 50 NW Mission NW 43 x NE 50 Blk 1 Oscar Heyman & Brother Sub West End Map No 1. Gregory & Co composed of G L Brooks and T M Gregory vs E Evangelisti,

Michael and Emerinda Miraglia. \$20
 August 11, 1930—NW MOSCOW ST 300 SW Excelsior Ave SW 37-6 x NW 100. G Mazzeria Co, \$395.60; South City Lumber & Supply Co, \$1360.67; Theo Binner, \$210, vs V and A Barsi and E Evangelisti.
 August 11, 1930—SW HARVARD 75 NW Sillman NW 25 x SW 95 Blk 143 Brown Estate Co Sub ptn University Hld. Wm Onick vs L A Booker. \$50
 August 11, 1930—SW HARVARD 100 NW Sillman NW 25 x SW 120 Blk 143 Brown Estate Co Sub ptn University Hld. Wm Onick vs L A Booker. \$87
 August 11, 1930—SW HARVARD 100 NW Sillman NW 25 x SW 120 Blk 143 Brown Estate Co Sub ptn University Hld. Wm Onick vs L A Booker. \$87
 August 11, 1930—NW 35th AVE SW Excelsior Ave SW 37-6 x NW 100. Roma Hardwood Floor Co vs V and A Barsi and E Evangelisti. \$250
 August 9, 1930—LOT 31 BLK 143, Brown Est Co, Sub ptn University Mound. Sudden Lumber Co vs L A and E Booker. \$403.02
 August 9, 1930—LOT 32 BLK 143, Brown Est Co, Sub ptn University Mound. Sudden Lumber Co vs L A and E Booker. \$403.02
 August 9, 1930—LOT 30 BLK 143, Brown Est Co, Sub ptn University Mound. Sudden Lumber Co vs L A and E Booker. \$403.02
 August 9, 1930—LOTS 30, 31 and 32 Blk 143, Brown Est Co, Sub University Mound. Jack Johnson as Jack Johnson & Co, \$149; Pacific Mill & Cabinet Co, \$249.99; L A and Estella Booker. \$403.02
 August 8, 1930—NW HYDE 87-6 N Vallejo 50x137-6. N A and E W Hanson as Herman S Hanson vs Ernestina A Lee, Sarah I Maxwell and A I Dow. \$80
 August 8, 1930—NE BAKER ST and Sacramento St N 25-84 x E 102-6. San Francisco Terrazzo Assn vs G H Augustine. \$42
 August 12, 1930—NE APPLETON AVE 52-34 SE Mission SE 39 x NE 34. H S Thomson, Inc vs E Watson. \$692.44
 August 12, 1930—E ELEVENTH AVE 200 N Noriega N 25 x E 120. H S Thomson Inc vs E Watson. \$1212.45
 August 12, 1930—NE SENECA AVE 50 NW Mission NW 43 x NE 50 Blk 1 Oscar Heyman & Brother Sub West End Map No 1. Henry Dissmeyer as Acme Roofing Co vs E Evangelisti and M and E Miraglia. \$105
 August 12, 1930—NW MOSCOW 300 SW Excelsior Ave SW 37-6 x NW 100. H W Larson vs S F Hardware Co vs E Evangelisti and V Barsi. \$240.36

RELEASE OF LIENS

San Francisco County

Recorded Amount
 August 11, 1930—SW PACIFIC AVE and Buchanan W 62-6 x S 127-84. J Shay to I Epp & Sons. \$3856.50
 August 6, 1930—2047 O R 433 S Clement 100 E 16th Ave W 100 S E 44-64 SE 2-64 E 55 72-6 to beg. O F Larson & Son to Isaacs Plastering Co, John Richard and Lena Linn Johnson.
 August 12, 1930—E 21st AVE S Kirkham S 25 x E 120. Atlas Heating & Ventilating Co, Richard Lynch, F G Norman & Sons, S Tutty, Central Hardware and Glass Co, Herbert A Thrall, Liberty Mill & Cabinet Co, Guarantee Tile Co, Alhambra Stucco Co, New Mission Hardware Floor Co, Loop Lumber Company, Garrett M Goldberg & Co, G Mazzeria Co, Fred Larson to D T Marshall, J Caldarella and Louis Arguello.

BUILDING PERMITS

Alameda County

Permit No.	Owner	Amount
984	Gray	Bethel 3000
985	Barrett	Owner 2000
986	McBride	Owner 2000
987	Lewis	Owner 6000
988	Mel	Braghoff 6000
989	Manthorne	Nylander 4250
990	Itone	Loyal 1500
991	Marlino	Owner 1900
992	Irradway	Electric 1500
993	Flagg	Owner 2200
994	Cavallo	Cavallo 52000
995	Nieley	Dinwiddle 3500
996	Noller	Falk 1500
997	Mills	Owner 5000
998	Holmes	Watson 4250
999	Pimm	Knolly 46500
1000	Unlon	Owner 1500
1001	Ruthkowski	Owner 1900
1002	Bruno	Owner 2700
1003	Schuler	Rose 1000
1004	Dierkes	Durkin 2000
1005	Lyons	L Lyons 3000
1006	McDonnell	Johnston 3100
1007	Marcus	Young 7750
1008	Hall	Owens 1000
1009	Dashell	Owner 5500
1010	Felsch	Hanlman 3800
1011	Short	Owner 4000
1012	McDonell	Owner 3850

DWELLING

(934) 1509 STUART Street, BERKELEY; one-story five-room stucco dwelling.
 Owner—E. B. Gray, 223 Blake Bldg., Oakland.
 Architect—None.
 Contractor—W. E. Bethel, 1400 Ashby, Oakland. \$3000

ALTERATIONS

(985) 1629 TELEGRAPH AVE., OAKLAND; alterations.
 Owner and Builder—Barrett & Hill, 918 Harrison St., San Francisco.
 Architect—None. \$2000

DWELLING

(986) N 39th ST., 150 E Market St., OAKLAND; one-story two-family dwelling.
 Owner and Builder—R. C. McBride, Jr., 4127 Broadway, Oakland.
 Architect—None. \$3000

DWELLING

(987) 1015 KEELER AVE., BERKELEY; two-story 6-room dwelling.
 Owner & Contractor—Arthur C. Lewis, 2153 Virginia St., Berkeley.
 Architect—None. \$6000

DWELLING

(988) 6 MOSSWOOD ROAD, BERKELEY; 1-story 4-room dwelling.
 Owner—Charles Mel, 10 Mosswood Rd., Berkeley.
 Architect—W. T. Steiffert, 1 Orchard Lane, Berkeley.
 Contractor—C. O. Braghoff, 911 35th St., Oakland. \$2000

DWELLING

(989) NW COR 106th AVENUE and Breed, OAKLAND; one-story 6-room dwelling and 1-story garage.
 Owner—J. H. Manthorne, 115 Pan Handle Blvd., El Centro.
 Architect—None.
 Contractor—Nylander Bros., 633 Montclair Ave., Oakland. \$4250

ALTERATIONS

(990) 880 C GROVE ST., OAKLAND; alterations and repairs.
 Owner—C. P. Reese, 1150 7th St., Oakland.
 Architect—None.
 Contractor—Royal Show Case Co., 759 McAllister St., San Francisco. \$1500

ALTERATIONS

(991) 3264 SCHOOL ST., OAKLAND; alterations.
 Owner and Contractor—N. Martin, 1269 7th St., Oakland.
 Architect—None. \$1000

SIGN

(992) SW COR. 12th and Broadway,
OAKLAND; roof sign.
 Owner—Broadway Theatre, Oakland.
 land.
 Architect—None.
 Contractor—Electrical Products Corp.
 \$1500

DWELLING

(993) W GUIDO 300 N Redwood Rd.,
OAKLAND; 1-story 5-room dwell-
 ing and garage.
 Owner and Builder—J. S. Flagg, 3562
 Redwood Road, Oakland.
 Architect—None. \$3200

APARTMENTS

(994) E TENTH AVE. 120 N East
 22nd St., **OAKLAND**; 3-story 66-
 room apt.
 Owner—Margaret Cavallo, 1111 Jones
 St., Berkeley.
 Architect—None.
 Contractor—Omberto Cavallo, 1111
 Jones St., Berkeley. \$52,000

ALTERATIONS

(995) 1425 BROADWAY, **OAKLAND**;
 alterations.
 Owner—Nisley Shoe Co., 1425 Broad-
 way, Oakland.
 Architect—None.
 Contractor—Dinwiddie Const. Co., 1101
 Crocker Bldg., San Francisco. \$3500

ALTERATIONS

(996) 3000-14 HOPKINS, **OAKLAND**;
 alterations and addition.
 Owner—Chas. Noller, 3612 Maple Ave.,
 Oakland.
 Architect—None.
 Contractor—Chas. W. Falk, 1520 E 38th
 St., Oakland. \$1500

ADDITION

(997) MILLS COLLEGE Campus,
OAKLAND; addition.
 Owner and Builder—Mills College, 59th
 and Missaba, Oakland.
 Architect—None. \$5000

DWELLING

(998) N FLORENCE 60 W Morpeth,
OAKLAND; 1-story 6-room dwell-
 ing.
 Owner—J. A. Holmes, 6539 Kingsley
 St., Oakland.
 Architect—None.
 Contractor—Wm. Watson, 4750 Meldon
 Ave., Oakland. \$4250

APARTMENTS

(999) 748 LINCOLN AVE., **BERKE-
 LEY**; three-story 60-room apart-
 ment house (frame and stucco).
 Owner—T. C. Pimm, Richmond.
 Plans by Owner.
 Contractor—C. D. Knolly, 746 Lincoln
 Ave., Alameda. \$46,500

SERVICE STATION

(1000) SW COR. WEBSTER ST. and
 Pacific Ave., **BERKELEY**; super-
 service gasoline station (brick),
 \$1500; owner and contractor, Uni-
 on Oil Co. of Calif., Ray Bldg.,
 Oakland.
 Plans by Owners. \$1500

DWELLING

(1001) 502½ CENTRAL AVE., **ALA-
 MEDA**; one-story 3-room frame
 and stucco dwelling.
 Owner and Builder—T. Ruthkowski,
 500 Central Ave., Alameda.
 Architect—None. \$1900

ALTERATIONS

(1002) 5221 MILES AVE., **OAKLAND**
 alterations and repairs.
 Owner and Builder—J. Bruno, 5221
 Miles Ave., Oakland.
 Architect—None. \$2700

REPAIRS

(1003) 1206 MILVIA, **BERKELEY**;
 fire repairs.

Owner—August Schuler, 3201 23rd St.,
 San Francisco.
 Architect—None.
 Contractor—A. H. Rose, 478 25th St.,
 Berkeley. \$1000

DWELLING

(1004) 1739 NINTH ST., **BERKELEY**
 one-story 4-room stucco dwelling.
 Owner—B. S. Dierkes, Delaware and
 9th Sts., Berkeley.
 Plans by Contractor.
 Contractor—Ward Durgin, 3922 La
 Cresta, Oakland. \$2000

STORE

(1005) N EAST 14th ST. 50 W 40th
 Ave., **OAKLAND**; one-story tile
 store.
 Owner—George K. Lyons.
 Architect—None.
 Contractor—W. E. Lyons, 354 Hobart
 St., Oakland. \$3000

DWELLING

(1006) S E-26th ST. 175 E 13th Ave.,
OAKLAND; 1-story 5-room dwell-
 ing and 1-story garage.
 Owner—John McDonnell, 1319 E 26th
 St., Oakland.
 Architect—None.
 Contractor—J. D. Johnstone, 1810 94th
 Ave., Oakland. \$3100

DWELLING

(1007) N PROSPECT 100 W Athol
 Ave., **OAKLAND**; two-story 7-
 room dwelling and 1-story garage.
 Owner—Mrs. Ida Marcus, 2812 E 16th
 St., Oakland.
 Architect—None.
 Contractor—John Young, 233 Leo Ave.,
 San Leandro. \$7700

REPAIRS

(1008) NO. 2711 REGENT ST., **BER-
 KELEY**. Repairs.
 Owner—W. Hall, Premises.
 Architect—None.
 Contractor—J. Owens, 65 Linda Ave.,
 Oakland. \$1000

DWELLING

(1009) E CALAFIA 300 N Jones St.,
OAKLAND; 1-story 5-room dwell-
 ing and 1-story garage.
 Owner and Builder—E. L. Dashiell,
 1666 67th Ave., Oakland.
 Architect—None. \$5500

DWELLING

(1010) 5407 DAVENPORT ST., **OAK-
 LAND**; one-story 5-room dwelling.
 Owner—W. L. Felsch, 5407 Davenport
 St., Oakland.
 Architect—None.
 Contractor—P. R. Hanlman, 1243
 Broadway, Alameda. \$3800

DWELLING

(1011) N EL CENTRO 350 W San
 Sebastian, **OAKLAND**; one-story
 6-room dwelling.
 Owner and Builder—C. W. Short, 574
 Rosal Ave., Oakland.
 Architect—None. \$4000

OFFICE

(1012) E WEBSTER ST. 200 S 20th
 St., **OAKLAND**; one-story brick &
 tile office.
 Owner and Builder—Geo. A. McDonell
 2425 Spaulding Ave., Berkeley.
 Architect—None. \$3850

BUILDING CONTRACTS

Alameda County

No	Owner	Contractor	Amt.
140	Henning	Burns	2900
141	Willow	Campomenosi	42714
142	Roberts	Sorensen	15000
143	Stovall	Sullivan	6400
144	Birdsall	Anderson	4600

HEATING SYSTEM

(140) E 15th ST. bet. 7th and 8th
 Aves., Oakland; installation of a

steam heating and hot water heat-
 ing system in apartment building.
 Owner—K. J. Henning, 554 Alcatraz,
 Oakland.
 Architect—None.
 Contractor—J. E. Burns, 354 Hobart
 St., Oakland.
 Filed Aug. 8, '30. Dated Sept., '30.
 When roughed in\$1160
 When finished 1160
 Usual 35 days 580
TOTAL COST, \$2900

CREAMERY BLDG.

(141) W SAN PABLO AVE. 80-70 ft.
 south of Mead Ave., Oakland;
 general construction on creamery
 building.
 Owner—Willow Brook Dairy, Oakland.
 Architect—Diggs & Marshall, Inc., 1513
 Latham Square Bldg., Oakland.
 Contractor—E. S. Campomenosi.
 Filed Aug. 9, '30. Dated Aug. 4, '30.
 Weekly progress payments.25%
 Usual 35 days 25%
TOTAL COST, \$42,714.69
 Bond, \$21,900. Sureties, New Amer-
 dam Casualty Co. Forfeit, \$10 per day.
 Limit, 75 days. Plans and Spec. filed.

STORE

(142) SV CASTRO ST. 150 ft. SE of
 B St., Hayward; general construc-
 tion on store building.
 Owner—Arthur J. Roberts.
 Architect—None.
 Contractor—C. A. Sorensen, 1015 62nd
 St., Oakland.
 Filed Aug. 12, 1930. Dated Aug. 7, 1930
 All sub-contractors to be paid by
 the owner through Bank of Italy Na-
 tional Trust & Savings Assn. (Hay-
 ward Branch).
TOTAL COST, \$15,000
 Limit, 90 days.

DWELLING

(143) PLEASANTON, Alameda Co.,
 Calif.; general construction on 6-
 room dwelling.
 Owner—Mrs. Mary E. Stovall, Pleas-
 anton.
 Architect—Crooks & Hill, 1445 Web-
 ster St., Oakland.
 Contractor—Sullivan & Sullivan, 3653
 Best Ave., Oakland.
 Filed Aug. 13, '30. Dated Aug. 12, '30.
 When frame is completed\$1600
 When brown coated 1600
 When completed 1600
 Usual 35 days after 1600
TOTAL COST, \$6400
 Limit, 75 days. Plans and Spec. filed.

DWELLING

(144) SW SANTA CLARA AVE. 132
 ft. SE of Union St., Alameda; gen-
 eral construction on residence.
 Owner—Warren M. Birdsall, 290 6th
 St., Oakland.
 Plans by Builder.
 Contractor—Walter H. Anderson, 1014
 Davis St., Alameda.
 Filed Aug. 13, '30. Dated Aug. 19, '30.
 When frame is up\$1150
 When rough plastered 1150
 When completed 1150
 Usual 35 days 1150
TOTAL COST, \$4600
 Forfeit, \$10 per day. Limit, 90 days.
 Plans and Spec. filed.

COMPLETION NOTICES

Alameda County

Recorded	Accepted
August 7, 1930—1502 CEDAR Street, Berkeley. Guy and Emma A. Ty- ler to Guy Tyler.....	August 7, 1930
August 6, 1930—S DUTTON AVE 57 ft NE of inter of Dutton Ave with west boundary of a certain 4.47 acre tract of land conveyed by Maria L. Carvalho to Wm E Oaks by deed dated May 29, 1897. In Vol 972 of Deeds page 166. San Leand- ro. Fred Hambleton to Self.....	July 31, 1930
August 11, 1930—LOT 27 and ptn Lot 28 Bk 19, map No 6 of Re- gents Park, Albany. Charles E	

Eakin to whom it may concern.....August 8, 1930
 August 11, 1930—SE 14th AVE and E 14th St, Oakland. Andrew and Nevart Caldwell to Villadas Bros, Inc.....August 7, 1930
 August 11, 1930—W BROADWAY 50 ft S of 12th St, Oakland. Levy Estate Co to James L. McLaughlin Co.....August 5, 1930
 August 9, 1930—LOT 8 BLK 10, No Cragmont, Berkeley. Ray H Norheim to whom it may concern.....August 6, 1930
 August 8, 1930—2242 HOPKINS St, Oakland. Adolph A Kaiser to A H Nunemacher.....August 7, 1930
 August 8, 1930—FIRST and Market Sts, Oakland. Howard Terminal to J T Walsh.....Aug. 6, 1930
 August 8, 1930—FIRST and Market Sts, Oakland. Howard Terminal to The Turner Co.....August 6, 1930
 August 8, 1930—ALAMEDA and Oakland. Southern Pacific Company to Hutchinson Co, Inc.....July 31, 1930
 August 8, 1930—OKLAND, Alameda and Berkeley. Southern Pacific Co to Hutchinson Co, Inc.....July 31, 1930
 August 7, 1930—LOT 50 Steinyard Terrace, Oakland. H E Sampson to whom it may concern.....August 6, 1930
 August 7, 1930—LOT 12 BLOCK 21, map of lands adjacent to the town of Encinal. W C Thorpe and Wm N Ihrig to Wm N Ihrig and Wm C Thorpe.....July 29, 1930
 August 12, 1930—PTN LOT 16 BLK 20, Broadmoor, San Leandro. W S Manners to H E Johnson.....August 5, 1930
 August 12, 1930—LOTS 81 and 76, Meek Blvd Tract. Dept of Public Works, Division of Highways, State of California to Rufus Gon-salves.....August 7, 1930
 August 12, 1930—1923 NAPA AVE, Berkeley. Arthur A Wendering to Walter L Brodrick.....August 5, 1930

LIENS FILED

ALAMEDA COUNTY

Recorded	Amount
August 7, 1930—LOT F-79, map of Fairway Estate, Oak Knoll. Melrose Bldg Materials Co vs Mary Sulprizio, Clifton E Davidson and Henning Carlson.....	\$274.76
August 7, 1930—PTN LOTS 3 BLK 97 map No 2, Glen Echo Tract, Berkeley. Bldg Materials Co vs John Vallance, Axel Sommarstrom & Weeks Const Co.....	\$500
August 7, 1930—PTN LOT 9 BLK 9 Fruitvale Garden Farm. Berkeley Bldg Materials Co vs Regina M Cummings and M Mehta.....	\$79.46
August 7, 1930—SE HASTE ST and Ellsworth St, Berkeley. Berkeley Bldg Materials Co vs B E Frien.....	\$97.79
August 7, 1930—PTN LOTS 21, 22, 23 and 24 Blk H New Town of Lynn. Tay - Holbrook Co, Inc, vs G W Steffen and H A Golden.....	\$726.30
August 8, 1930—PTN LOTS 21, 22, 23 and 24 Blk H, new town of Lynn, Oakland. Marcus & Merrick, Ltd vs G W Steffen.....	\$66.96
August 8, 1930—LOT 83 BLK 3, map No 4 of Regents Park, Albany. Tilden Lumber & Mill Co vs Mercedes Bruna and J E Miller.....	\$266.10
August 8, 1930—S PALM AVE 100 ft W of Almond Ave, Livermore. J L Hutchins vs Walter M Woodward and Irene Hutchins.....	\$150

RELEASE OF LIENS

ALAMEDA COUNTY

Recorded	Amount
August 7, 1930—32 PLAZA DRIVE, Berkeley. MacJordan to H C and Beatrice D Kelsey.....	\$557.62

August 5, 1930—COUNTY ROAD leading from Hayward to Moraga Valley at the N line of a certain 173.65 acre tract conveyed to Josiah G Brickell in Liber 61 of Deeds Page 77, Eden Twp. Swift Lumber Co to R E Burns, George E Burns and L Valleria.....\$183.70
 August 12, 1930—3539 CALENDRIA Ave, Oakland. Hippolito Company to Tom and Edythe L King and Henning Carlson.....\$63.93
 August 12, 1930—3514 CALENDRIA Ave, Oakland. Hippolito Company to J K and Hildegarde L Hoey and Henning Carlson.....\$66.50
 August 7, 1930—LOT 16 BLK 2, Case Tract, Berkeley. Atlas Mill & Lbr Co, \$105.50; Superior Tile & Prod Co, \$48; J L Sweeney, \$78.50; to Lipscomb E Worth, E W Wilson.....\$278.60
 August 7, 1930—LOT 16 BLK 2, Case Tract, Berkeley. Makin & Kennedy, Inc to E W Wilson.....\$78.60
 August 7, 1930—LOT 16 BLK 2, Case Tract, Berkeley. Lewis & Francols, \$75; A W Sunkler, \$75; E K Wood Lumber Co, \$252.98; to E W Wilson, Lipscomb E and Beatrice M Worth.....\$78.60

BUILDING PERMITS

SAN MATEO

RESIDENCE, \$5000; Lot 5 Blk 14 Cornell; owner, David Houle, 162 Grand, San Mateo; contractor, Koppler Bros.
 GAS Station, \$1700; Lot 1A Blk 13 California Drive and Broadway; owner, Associated Oil Co., S. P.; contractor, W. H. Ball.
 ALTERATIONS, \$5300; Blk 15 Baldwin Ave.; owner, Wisnom Co, 231 2nd St., San Mateo; contractor, S. A. Wisnom, 140 S Ellsworth, San Mateo.
 RESIDENCE, \$6000; Lot 84, 812 Humboldt St.; owner, Callos Geannettali; contractor, J. L. Debenedetti, Jr., 134 Elm St., San Mateo.
 OFFICE room, \$1800; Lots 31-32-33, etc., Bayshore and State; owner and builder, Ralph and Lloyd Smith, 848 N Idaho St., San Mateo.
 BUNGALOW, \$4000; Lot 3 Blk 19, 718 9th Ave.; owner, M. Brackovich; contractor, A. Powers, 515 South Humboldt, San Mateo.
 BUNGALOW, \$5000; Lot 2 Blk 20, 822 9th Ave.; owner, Con Carlson, 343 N Delaware, San Mateo; contractor, A. Powers, 515 S Humboldt, San Mateo.
 BUNGALOW, 6-room, \$20,000; Lots 3 and 4, Blk 36, 372-76 N Delaware, San Mateo; owner, Chas. Todaro, 376 N Delaware San Mateo; contractor, A. Powers, 515 So. Humboldt St., San Mateo.
 RESIDENCE, \$15,000; Lot 4 Blk 16, 459 Parrot Drive; owner and contractor, Chas. Hammer, 1524 Floribunda, San Mateo.
 RESIDENCE, \$9000; E 80 ft of Lot 272 W Poplar; owner, F. P. Burrows, 1136 Laguna, San Mateo; contractor, G. W. Williams Co., Ltd., 1404 Broadway, San Mateo.

BUILDING CONTRACTS

SAN MATEO COUNTY

WELLS
 BAY SHORE, drilling, casing and sinking two wells at Hay Shore. Owner—Southern Pacific Company, San Francisco.
 Architect—None.
 Contractor—Joseph B. Rogers, 659 5th St., Oakland.
 \$6.45 per lin. ft. for approximate total of 280 feet.
 Bond, Sureties and Specifications filed.
 Limit, 90 calendar days.

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded	Accepted
Aug. 2, 1930—LOT 8 BLK 14, Stanford Park Sub No 2, Menlo Park. Fred R Ingram to Aro & Okerman.....	July 31, 1930
Aug. 2, 1930—LOT 17 BLK 306, map of Highland, Emerald Lake Sub No 3, Redwood City. Storey and Dolphin to whom it may concern.....	July 31, 1930
Aug. 2, 1930—LOT 14 BLK 22, Belle Monte Sub No 1, Belmont. Jas P Halloran to Frank P O'Brien.....	July 25, 1930
Aug. 2, 1930—COMMENCING at a point on the southerly line of 3rd Ave 90 ft westerly from westerly line of San Mateo Drive and running westerly along said southerly line of 3rd Ave 35 ft, thence at right angles southerly 125 feet, thence at right angles easterly 35 ft, thence at right angles northerly 125 ft to point of beginning. Martin Stelling Jr and Edgar L Gould to Young & Horstmeier.....	July 25, 1930

BUILDING PERMITS

SAN JOSE

ALTER frame residence, \$3800. St James & Terraine Sts., San Jose. owner, C. Pometta, NW St. James and Terraine Sts., San Jose; contractor, E. Delmaestro, 460 W. Julian St., San Jose.
 ALTER CLASS C business building, 1300; No. 95 N-First St., San Jose; leasee, National Shirt Shop, 968 Market St., San Francisco. contractor, H A. Bridges, Pine and Lincoln Sts., San Jose.
 ALTER 3-story Class C business building, \$54,175; No. 165 W. Santa Clara St., San Jose; owner, Paul Masson, Premises, architect, W. H. Weeks, Bank of Italy Bldg., San Jose; contractor, The Alinton Co., 16 N-First St., San Jose.
 RESIDENCE, 5-room, frame and stucco, \$3800, NE Fifteenth and Jackson Sts., San Jose. owner, J. W. Allen, 191 Hawthorne Way, San Jose; contractor, C. Samue-son, 1434 Shasta St., San Jose.

Member Insurance Brokers' Exchange

FRED H. BOGGS
 INSURANCE

490 GEARY STREET

Phone FRanklin 9400

San Francisco

ALTER and repair frame residence, \$1000; NW Coe and Clintonia Sts. San Jose; owner, W. Hargis, 709 Coe Ave., San Jose; contractor, A. E. Hinkins, 1134 Cherry St., San Jose.

ALTER one-story Class C business building, \$10,000; No. 69 S-First St., San Jose; owner, Guaranty Bldg. & Loan, Promises; architect, Albert F. Roller, Crocker 1st National Bank Bldg., San Francisco; contractor, R. O. Summers, 17 N-First St., San Jose.

BUILDING CONTRACTS

PALO ALTO

RESIDENCE, frame and stucco, \$5,000; 2371 Tasso St.; owner, Henry Harala.

REPAIRS to frame residence, \$1600; 618 Fulton St.; owner, J. W. McDonnell, 618 Fulton St., Palo Alto; contractor, John Madsen, 765 Hamilton, Palo Alto.

CLTB house, frame and stucco, \$1500 No. 525 El Camino Real, Palo Alto; owner, Frank C. Bellman.

COMPLETION NOTICES

SANTA CLARA COUNTY

Recorded Accepted

August 1, 1930—PART LOT 12, Lendrum Subd., San Jose, Luella Madocks to whom it may concern..... July 31, 1930

August 1, 1930—LOT 12 BLK 2, Willowhurst Subd., San Jose. H A Butts et al to whom it may concern..... August 1, 1930

August 1, 1930—LOT 3 BLK 32, Los Altos No. 3. Mary Devencenzi to whom it may concern..... Aug. 1, 1930

Aug. 1, 1930—LOT A, Barron Park, San Jose. Aaron L. Kelley to whom it may concern..... July 31, 1930

August 2, 1930—LOT 11 BLK 3, Lincoln Gates, San Jose. S Paul Arnold to whom it may concern..... August 1, 1930

Aug. 4, 1930—ON 78.893 AC PT LOT G Narvaez Partition Milpitas Rancho, Domingas A and Belle Silva to whom it may concern..... July 12, 1930

Aug. 4, 1930—LOT 12 BLK 3, Restwood Park No. 2, San Jose. Ernest Lorentz to whom it may concern..... August 1, 1930

Aug. 4, 1930—LOT 25 BLK 3, Restwood Park, San Jose. Joseph F Perry et al to whom it may concern..... July 28, 1930

Aug. 4, 1930—LOTS 65 AND 66 BLK 49, Palo Alto. Maud E. Nates to whom it may concern..... July 30, 1930

August 5, 1930—RACE ST. AND Moorpark Ave., San Jose. United States Products Corporation to whom it may concern..... July 26, 1930

Aug. 6, 1930—LOT 21 BLK 6, N Gler Residential Park, San Jose. Peter C. Filice et al to whom it may concern..... August 4, 1930

Aug. 6, 1930—LOT 40, Colonial Manor, San Jose. J. B. Wheeler et al to whom it may concern..... August 5, 1930

Aug. 7, 1930—SE FLORENCE AVE. 549.21 SW White Road, San Jose. George H. Douglass to whom it may concern..... August 6, 1930

Aug. 7, 1930—LOT 15 BLK 142, Embarcadero Oaks, San Jose. Marion A. Downing et al to whom it may concern..... August 6, 1930

Aug. 7, 1930—LOT 9 BLK 34, Seale Addition No. 2, Palo Alto. Elizabeth McJ Tyng to whom it may concern..... August 4, 1930

Aug. 8, 1930—LOT 21, Larson Subd. No. 2, Sunnyvale. A. B. Adelman to whom it may concern..... Aug. 4, 1930

LIENS FILED

SANTA CLARA COUNTY

Recorded Accepted

August 2, 1930—LOTS 36 AND 37 Blk 7, Bartley Tract Subd. No. 3, Palo Alto. Granada Tile Co vs Martha K Dillon.....\$100

Aug. 2, 1930—LOT 9 BLK 17, Lendrum & Brassy Ahlers Tract, San Jose. San Jose Lumber Co vs Andrew J. Ogg.....\$636.94

Aug. 4, 1930—NE STOCKTON AVE. 149 NW Alameda, San Jose. McElroy-Chelm Lumber Co vs S M Halstead et al.....\$140.05

Aug. 4, 1930—5.192 AC ON NE SAN Francisco and San Jose Road. Merner Lumber Co vs Ida Jean Brooks.....\$230.86

AUG. 7, 1930—N PORTLAND AVE. 500 W Grand Road, San Jose. Sterling Lumber Co vs V A Hancock et al.....\$695.52

RELEASE OF LIENS

SANTA CLARA COUNTY

Recorded Amount

August 2, 1930—SE FOREST AVE. 100 SW Waverly St. SW on Forest 150 r a SE 100 r a NE 100 r a SE 30 NE 50 NW 220 to pt of commencement Pln. Lots 3 and 4 Blk 23, Palo Alto. Steve Anderson and S H Anderson, \$1461.65; D N & E Walter & Co, \$730.21; Pacific Mill & Cabinet Co, \$4337.75; E D Philbrick Co, \$580; Lee Hardware Co, \$1323.65; The Vanitine Co, \$100

Friedman Bros Glass Co, \$1444; Ganthier & Hutchins Co, \$900; A Harper, \$4400; Charles Peter Murphy, \$5908.50; Disappearing Screen & Shade Co, \$472.23; Joseph Musto Sons-Keenan Co, \$415; D H Rhodes & Co, \$164.73; Michel & Pfeiffer Iron Works, \$1557.85; W C Hauck & Co, \$414; Marconi Plastering Co, \$5063.41; Malott & Peterson, \$900; Walter N. Boyesen Co, \$260.90; Merner Lumber Co, \$8874.66; Pope & Talbot, \$2350.05; Paul M P Merner, \$491.50; Progress Lumber Co, \$440.14; George Campbell, \$317.50; Higgins & Kraus, \$9404; Badt-Falk & Co, \$191.42; Soule Steel Co, \$366.05; Gladding, McBean & Co, \$1570; Unedda Shade Co, \$135; Frank W Dunne Co, \$343.80; McClinton-Marshall Co of California, \$1000; W R Ames Co, \$—; William J C Urban, \$—; McCabe Electric Co, \$— to Wm and Chara H Staller.....\$214

August 6, 1930—NO. 1500 MIDDLEfield Road being Lot 45 Subd of Blk 100, Palo Alto. Sunset Lumber Co to Harry L Sandow, Inc.,.....\$62.07

Aug. 6, 1930—LOT 45 Subd of Blk 100, Palo Alto. Merner Lumber Co to Harry L Sandow, Inc. (2 releases).....\$225 \$23.63 respectively

BUILDING PERMITS

STOCKTON

REMODEL store, \$2000; No. 126 N. Wilson Way, Stockton; owner, San Joaquin Market Association; contractor, C. C. Russell, 1637 West Lane, Stockton.

RESIDENCE and garage, \$5000; No. 101 Fulton Ave., Stockton; owner, G. Vignola, Promises; contractor, S. C. Giles, 121 Knowles Way Stockton.

COW barn at fair grounds, \$2200; No. 1400 E-Charter Way, Stockton; owner, San Joaquin County Fair; contractor, John Hachman, Sonora Road and Walker Lane, Stockton.

COMPLETION NOTICES

MONTEREY COUNTY

Recorded Accepted

August 9, 1930—CYPRESS POINT, Cypress Point Club to Lindgren & Swinerton, Inc.....August 1, 1930

August 9, 1930—LOT 20 BLK 21 F. S. Spring's Addition to Salinas City. Albert W and Amanda Marschek to W L Richmond..... August 1, 1930

August 9, 1930—LOT 1 BLK 91, Official Block Book Map of City of Monterey. Wm T Lee to Geo E Miller..... August 8, 1930

August 9, 1930—LOT 15 BLK 3, Oak Grove Addition to City of Monterey. Avery and Thomas Cunningham to whom it may concern..... July 31, 1930

August 11, 1930—SE MONTEREY and Sausal Sts. and fronting 50 ft. on Monterey St. and 60 ft. on Sausal St., Monterey. Jack L and Marion Burstein to F C Carlsen..... June 24, 1930

August 11, 1930—LOTS 66 AND 67 Blk E, King City. Mrs. Elizabeth Luckett to T Harry Williams..... August 9, 1930

August 12, 1930—LOTS 159 AND 161 Map of Gray Eagle Terrace, a subdivision of Lots 2 and 3 Rancho Noche Buena, Lots 1 and 2 Blk 2 Lots 1 to 12 inclusive Blk 3, Monterey. J F and Louise Earl to whom it may concern..... Aug. 4, 1930

August 12, 1930—BEING PART Lots A and B blk 2 1/2 Map of Salinas City. Walter and Leona Webbing to M J Murphy, Inc..... August 8, 1930

August 6, 1930—LOT 13 BLK 10 1/2 Homestead Addn, Salinas. J E Finn to whom it may concern..... August 2, 1930

August 7, 1930—LINCOLN ST., Salinas. H Nagano to S Trondhjem..... August 7, 1930

August 7, 1930—LOTS 22 and 24 Blk 143 Addn No. 2, Carmel by the Sea. Agnes M Knight to M J Murphy, Inc..... August 1, 1930

August 7, 1930—NO 280 on the NW side of Laine St bet Dickman and Reseide Ave, Monterey. John T Donohue to E R Stalter..... July 30, 1930

LIENS FILED

MONTEREY COUNTY

Recorded Amount

August 9, 1930—BEG. AT A POINT distant 1.83 ft. from SW Cor. Lot 50, which Lot is shown on the Amended Map of Pebble Beach. Ray Burner Co vs J W Perry.....\$1450

August 12, 1930—LOT 3 BLK 21, Spring's Second Addition to Salinas City. Tynan Lumber Co, \$707.16; and \$935.38 vs A B McElheran; Cleon A Tynan and Florence McLennan Tynan.....

August 12, 1930—LOTS 1, 2 AND 4 Blk 36, Pacific Grove. Retreat, Pacific Grove. Tynan Lumber Co vs California M Healey and E R Stalter.....\$243.38

August 6, 1930—LOT 12 BLK 14, Homestead Addn, Salinas. Salinas Planing Mill, \$13.06; Tynan Lumber Co, \$165.63, vs Ralph Algers.....

COMPLETION NOTICES

MARIN COUNTY

Recorded	Accepted
August 8, 1930—SAN ANSELMO. Mary Lavaroni to E L Wilson.....	August 8, 1930
August 8, 1930—SAN RAFAEL. Neil Murchison to Ralph C Carr.....	July 7, 1930
August 11, 1930—MILL VALLEY. Melvin H Klyce to Melvin H Klyce.....	August 8, 1930
August 11, 1930—MILL VALLEY. The Federated Community Church Mill Valley to whom it may concern.....	August 4, 1930
July 31, 1930—SAN ANSELMO. Wm S Kepple to whom it may concern.....	July 30, 1930
Aug. 2, 1930—SAN RAFAEL. D F Hanton to Leibert-Trobeck.....	July 21, 1930
Aug. 6, 1930—SAN RAFAEL. Joseph Ghiringhelli to E W Ruhl.....	July 31, 1930
Aug. 6, 1930—SAN ANSELMO. Otis H Smith to whom it may concern.....	July 3, 1930
Aug. 6, 1930—SAN ANSELMO. Jas C Leach to Leach & Wallace.....	August 1, 1930

COMPLETION NOTICES

SAN JOAQUIN COUNTY

Recorded	Accepted
August 6, 1930—LOT 9 BLK 7, Oxford Manor, Stockton. P H Ahearn to H E Vickroy.....	July 31, 1930
August 8, 1930—LOT 8 BLK 75, S of Mormon Channel, Stockton. Wm Payne to J R Leighton.....	August 1, 1930

LIENS FILED

SAN JOAQUIN COUNTY

Recorded	Amount
Aug. 9, 1930—LOT 5 AND E 20 FT. Lot 3 Blk 35, West of Center St, Stockton. Turner Hardware & Implement Co, \$718.46; Eddie Electric Co, \$736.29; San Joaquin Brick Co, \$359.95; A Sandberg, \$250.45; Walter E Zerwech, \$117; F A Klingner, \$—; Stockton Title Co, \$350.65; Star Lumber Co, \$402.89; Henry Schafer, \$174; vs Arthur Hollenbeck.....	\$321.90
Aug. 9, 1930—LOT 14 BLK 3, Lomita Park, Stockton. Union Planning Mill, \$371.45; R Godsil, \$193; E H Grogan, \$68.75; Stockton Title Co, \$34.50 vs Margaret T Schneider.....	
August 6, 1930—LOTS 17 and 18, Marsh Gardens Tract, Central Lbr Co of Stockton vs George Saras.....	
August 8, 1930—LOT 14 BLK 3, Lomita Park. Yolland Ice & Fuel Co, \$154.65; E D Burns and C W Burns, \$144; Ruse-Blair Lumber Co (O D Ruse and D W Blair), \$280, vs Margaret T Schneider.....	
August 8, 1930—LOT 14 BLK 3, Lomita Park. Turner Hardware and Implement Co vs George B and Margaret T Schneider.....	\$29.50

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded	Accepted
August 7, 1930—NORTHERLY TEN ft of Lot 49 and all Lot 50 Blk 4, Richmond City Center. Joe Kern to whom it may concern.....	August 1, 1930
August 7, 1930—LOT 2 BLK 4, Green Subdiv of ptn Lots 16, 17 and 18, Wills Addn to Antioch. Jacob M	

Gaub to whom it may concern..

July 26, 1930

LIENS FILED

CONTRA COSTA COUNTY

Recorded	Amount
August 6, 1930—W 1/2 LOTS 7 AND 8 Blk 77, Original Survey of Town of Martinez. Tony Abi vs J D De Silva Jr. and S Gabelln.....	\$130
August 6, 1930—W 1/2 LOTS 7 AND 8 Blk 77, Original Survey of Town of Martinez. Lee Harris vs S Gabelln.....	\$66
Aug. 6, 1930—N 1/2 LOTS 7 AND 8 Blk 77, Original Survey of Town of Martinez. E Morgan Hardware & Plumbing Co, \$379.18; H E Douglas, \$165; R E Claeys, \$93.55 vs J De Silva Jr and Serafino Gabelln.....	\$615.34
August 5, 1930—WEST ONE-HALF Lots 7 and 8 Block 77, Original Survey of the town of Martinez. Santa Fe Lumber Co (a corp) as Martinez Lumber Co vs J DeSilva.....	\$58
August 5, 1930—WEST ONE-HALF Lots 7 and 8 Block 77, Original Survey of the town of Martinez. Superior Tile & Products Co (a corp) vs J D DeSilva, Jr. and Serafina Gabelln.....	\$54.94
Aug. 8, 1930—LOTS 73, 74, 75, 77, 78, 79, 95, La Salle Heights Unit No. 3. Hutchinson Co vs Contra Costa Abstract & Title Co and Theo Gier Ltd.....	

RELEASE OF LIENS

CONTRA COSTA COUNTY

Recorded	Amount
August 7, 1930—LOT 36 La Salle Heights Unit No 1. Antone and Andrew Nelson, as San Pablo Lbr Company to Duilio Grillo, et al.....	\$829.77
August 7, 1930—LOT 36 La Salle Heights Unit No 1. Josephs Bros to J F DeSilva and Duilio Bros.....	\$135
August 7, 1930—LOT 36 La Salle Heights Unit No 1. Louis Rossi, \$53.95; E Morgan Hardware and Plumbing Co, \$55.31, to J DeSilva and Duilio Grillo.....	
August 7, 1930—LOT 36 La Salle Heights Unit No 1. A Claeys, \$59.10; The Diamond Match Co, \$52.20, to Duilio Grillo and L Rossi.....	
August 7, 1930—LOT 36 La Salle Heights Unit No 1. Lee Harris to J F DeSilva, or J F deSilva and Duilio Grillo or Grillo.....	\$47.75
August 7, 1930—LOT 36 La Salle Heights Unit No 1. Martinez Lbr Co, \$208.91; A A McMahon, \$150.70, to Duilio Grillo, J DeSilva and Louis Rossi.....	

COMPLETION NOTICES

SONOMA COUNTY

Recorded	Accepted
Aug. 7, 1930—PART LOT 182 of Official Map, City of Petaluma. A D Coady to whom it may concern.....	August 5, 1930

LIENS FILED

SONOMA COUNTY

Recorded	Amount
Aug. 8, 1930—RUSSIAN RIVER near Healdsburg. F E Tompkins vs John Foppiano Jr and A Michell (Nigger Bend Dining Room). \$92.75	
August 5, 1930—EASTERLY FIVE acres of Lot 11 of Phillips Subdiv. Sterling Lumber Co vs Alfred G and Rosa B Haigh and Gus Lundgren.....	\$420.42

BUILDING CONTRACTS

SACRAMENTO COUNTY

ADDITIONS
NORTH SACRAMENTO SCHOOL District. All work for addition to lower school. Owner—North Sacramento School District. Architect—None. Contractor—P F Bender, 1611 D St., Paso Blvd., Sacramento. Filed..... Dated..... TOTAL COST, \$12,375

DRESSING ROOMS
V, Y, 34th and 36th Sts., Sacramento, all work on boys' and girls' dressing rooms for Sacramento High School. Owner—Sacramento City School Dist. Architect—None. Contractor—W. L. Chatterton, 1032 42nd St., Sacramento. Filing and Recording dates omitted. Payments omitted. TOTAL COST, \$9,985

BUILDING PERMITS

SACRAMENTO

RESIDENCE, 8-room, \$12,500; 1400 45th St.; owners, Mr. and Mrs. Chas. H. Carter, 4221 J St., Sacramento; contractor, N. H. Lund, 3300 Cutter, Sacramento.
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COMPLETION NOTICES

SACRAMENTO COUNTY

Recorded	Accepted
Aug 7, 1930—NW SEVENTH AVE and Stockton Blvd, Lot 20, Columbia Terrace, Sacramento. Associated Oil Co to whom it may concern.....	August 1, 1930
August 7, 1930—LOT 29, Colonial Acres, Sacramento. Bertie Gardner to whom it may concern.....	August 1, 1930
Aug. 8, 1930—LOT 71, Arcade Park, Sacramento. Garfield J and Ella L Aston to whom it may concern.....	August 4, 1930

LIENS FILED

SACRAMENTO COUNTY

Recorded	Amount
August 6, 1930—LOT 6 Del Paso, PK View Tract, Sacramento. General Supply Co vs A Horstman and Anna, ux, and Anna M Gaskill. \$562.16	
August 6, 1930—TRACT formerly known as Butler Tract, containing 942.55 acres on Andrus Island, except portion. Henry A Dewing vs Golden Gate Asparagus Co.....	\$6651.10
Aug. 8, 1930—N 1/2 OF S 1/2 OF N 1/2 of NE 1/4 Sec. 13-7-5 containing 26 acres, Sacramento. J M Derr vs John Tanabe.....	\$298.63

BUILDING PERMITS

FRESNO

DWELLING, \$3000; No. 904 Farris Ave., Fresno; owner, J. D. Brase, 905 Mildred Ave., Fresno.
ALTERATIONS and additions, 1300 A, No 502 M St., Fresno; owner, Saghatin Jazair.
SHED, \$3300; Florence and Chestnut Sts., Fresno. owner, Malsler Bros contractor, H. M. Cashagorian.
WORK OMITTED, \$1500 N. Van Ness Ave., Fresno. owner, Miss Rowell, Fresno. contractor, C. H. Franklin, 1627 E. 8th St., Fresno.

COMPLETION NOTICES

FRESNO COUNTY

Recorded August 5, 1930—Accepted Theodore Roosevelt High School Site, Fresno City High School District to H P Martin August 4, 1936

LIENS FILED

FRESNO COUNTY

Recorded August 9, 1930—Amount LOT 3 BLK 36, Sierra Addition No. 2, Fresno. Herbert E Sanderson vs Grant Cleveland \$63

OFFICIAL PROPOSALS

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received by the Department of Public Works, Division of Highways, at the office of the District Engineer, 502 State Office Building, Sacramento, California, until 2:00 o'clock P. M. on August 20, 1930, at which time they will be publicly opened and read, for performing work as follows:

Colusa County, between Bear Creek and 8 miles west of Williams, a distance of about nine (9) miles, road III-Col-15-D, constructing property fence.

Plans may be seen, and forms of proposal, bonds, contract and specifications may be obtained at the above address.

No bid will be received unless it is made on a proposal form furnished by the District Engineer. Each bid must be accompanied by cash, or a certified check made payable to the Director of Public Works, for an amount equal to ten (10) per cent of the amount bid, such guaranty to be forfeited should the bidder to whom the contract is awarded fail to enter into the contract.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

DEPARTMENT OF PUBLIC WORKS,
DIVISION OF HIGHWAYS.

C. H. PURCELL,
State Highway Engineer.
By C. H. WHITMORE,
District Engineer, Dist. III.

Dated: August 8, 1930.

NOTICE TO BIDDERS

(Improvements at Naval Radio Compass Station)

SEALED BIDS, indorsed "Bid for Improvements at the U. S. Naval Radio Compass Station, Farallon Islands, California, Specification No. 6216," will be received at the office of the Public Works Officer, Navy Yard, Mare Island, California, until 11:00 o'clock A. M., on September 3, 1930, and then and there publicly opened, for fire protection, concrete walks, sewer, tank hoops and weatherstripping.

Specification No. 6216 and accompanying drawing may be obtained on application to the Commandant, Navy Yard, Mare Island, California.

Deposit of a check or postal money order for \$10.00, payable to the Chief

of the Bureau of Yards and Docks, is required as security for the safe return of the drawing and specification.

A. L. PARSONS,
Chief of Bureau.

August 8, 1930.

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received by the Department of Public Works, Division of Highways, at the office of the District Engineer, 502 State Office Building, Sacramento, California, until 2:00 o'clock P. M. on Wednesday, August 27, 1930, at which time they will be publicly opened and read, for performing work as follows:

Butte County, constructing a reinforced concrete bridge over the State Highway about one (1) mile east of Oroville, III-But-21-B, consisting of one (1) earth filled arch span forty-six feet (46') long.

Plans may be seen, and forms of proposal, bonds, contract and specifications may be obtained at the above address.

No bid will be received unless it is made on a proposal form furnished by the District Engineer. Each bid must be accompanied by a cash or a certified or cashier's check made payable to the Director of Public Works, for an amount equal to at least ten (10) per cent of the amount bid, such guaranty to be forfeited should the bidder to whom the contract is awarded fail to enter into the contract.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

DEPARTMENT OF PUBLIC WORKS, DIVISION OF HIGHWAYS.

C. H. PURCELL,
State Highway Engineer.
By C. H. WHITMORE,
District Engineer, Dist. III.
Dated: August 11, 1930.

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received by the Department of Public Works, Division of Highways, at the office of the District Engineer, 502 State Office Building, Sacramento, California, until 2 o'clock P. M. on August 20, 1930, at which time they will be publicly opened and read, for performing work as follows:

Placer County, through Lincoln and 0.3 mile northerly (III Pla-3-A-B), about one and one-tenth (1.1) mile, constructing property fence.

Plans may be seen, and forms of proposal, bonds, contract and specifications may be obtained at the above address.

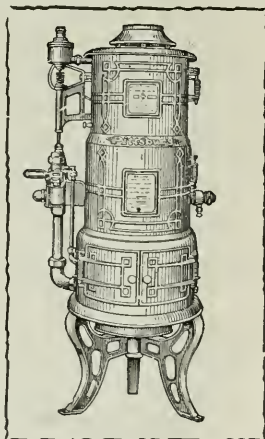
No bid will be received unless it is made on a proposal form furnished by the District Engineer. Each bid must be accompanied by cash, or a certified check made payable to the Director of Public Works, for an amount equal to ten (10) per cent of the amount bid, such guaranty to be forfeited should the bidder to whom the contract is awarded fail to enter into the contract.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

DEPARTMENT OF PUBLIC WORKS,
DIVISION OF HIGHWAYS.

C. H. PURCELL,
State Highway Engineer.
By C. H. WHITMORE,
District Engineer, Dist. III.

Dated: August 4, 1930.



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BUILDING *and* ENGINEERING NEWS

Publication Office
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SAN FRANCISCO, CALIF., AUGUST 23, 1930

Published Every Saturday
Thirtieth Year — No. 34



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L. A. TO VOTE ON POWER BOND ISSUE

At the general election to be held November 4, voters of Los Angeles will be asked to sanction a \$19,000,000 bond issue to defray the expenses of a three-year construction program for power development. For the construction proposed \$31,000,000 will be required, but of that amount \$12,000,000 is to be derived from power revenues.

Major items of the \$31,000,000 construction program and their cost include: Two small power plants with a total capacity of 9,100 kw. in Owens Valley and a 222-mile, 110-kv., steel-tower transmission line, \$4,885,000; a 14,000-kv. third unit in plant No. 2 on the aqueduct, \$925,000; additions and improvements to present generation and transmission system within the city, \$3,725,000; new line and receiving substation, \$3,075,000; additions to city distribution system, largely preparatory to distribution of Boulder Canyon power, \$14,665,000; general equipment, warehouse, shops, etc., \$1,200,000; Boulder Canyon transmission rights-of-way and attendant engineering, \$2,525,000.

CLAY TILE REPORT IS BEING DISTRIBUTED

A summary report of the recent meeting of the standing committee of the industry, which approved the modification of Simplified Practice Recommendation No. 61 on Clay Tile for Floors and Walls (originally White Glazed Tile and Unglazed Ceramic Mosaic), has just been mailed to all interests, for their consideration and written approval, by the Division of Simplified Practice of the Bureau of Standards, Department of Commerce.

Among the several important changes made in the recommendation by the revision conference are: the enlarging of the scope of the recommendation so as to include all floors and wall tile with the exception of faience, which necessitated a change in the name of the recommendation from "White Glazed Tile and Unglazed Ceramic Mosaic" to "Clay Tiles for Floors and Walls," and the reducing of the grades of tile from three to two whereby the committee discarded the terms "Selected" and "Commercial" and recommended the adoption of "Standards" and "Seconds" as the only two grades of tile to be produced and marketed.

Package grade certificates were also eliminated as it was felt that the master grade certificates would serve the purpose for identification and grading. New minimum grade specifications for ceramic mosaic, accompanied by tentative definitions of terms resulted from the deliberations of this committee. Other minor changes to bring the recommendation in accord with this major revision completed the work of the committee.

PORTLAND SEEKS TO REVIVE HOMEBUILDING

In view of the fact that one-third of the construction industry is involved in the house building business and since one-third of the material outlet goes into this field, the Portland Chapter of the Associated General Contractors is undertaking to act to bring about a revival of this section of the industry.

As a means of creating interest in home building in the minds of the public the chapter is cooperating with other Portland building organizations in bringing out a booklet which will contain full information about the problems which the prospective home builder faces.

The groups which are participating in the preparation of the booklet are: Oregon Chapter of the American Institute of Architects, Portland Chamber of Commerce, Heating & Piping Association, Furnace Heating Association, Master Plumbers Association, Realty Board, Building Material Dealers' Credit Association and the Portland Chapter of the Associated General Contractors together with its affiliated Builders Division.

ARCHITECTURE—A CAREER FOR WOMEN

(Editorial in S. F. Call)

One of the few remaining professions which women have not invaded to any great extent is architecture. There are, of course, several women architects. But not many.

That seems strange when you think of it—for woman's chief work throughout the ages has been that of homemaker, and homemaking is the primal business of architecture. Probably a majority of interior decorators are women, but architecture itself remains largely a masculine profession.

There are, however, signs of a change. Some New York firms are already employing girls along with men. Miss Eleanor Herron, a niece of the late Chief Justice Taft, is one of several young women now engaged in drawing plans for a new skyscraper going up on Broad street. Girl "draftsmen," their employers say, are as competent as anybody else and it is only a question of time before they are relatively as numerous as stenographers.

Young women trying to decide on a "career" might well consider architecture. It is a profession requiring brains, tact, good taste and patience.

Men have no monopoly of those qualities.

George Burdett Ford, internationally known architect and city planner, died in New York, August 13, from complications resulting from an operation.

Gates-Tatterson Take Over Specialty Department

August 1st saw a change of considerable interest in the building and construction field when Norman W. Tatterson, who had built up and directed the Building Specialty Department of Badt-Falk & Company took over their lines and associated with Gates-Tatterson-Co., Inc., who will continue doing business from the same address and offices used by Badt-Falk & Company.

According to Ray G. Falk the group of lines the Gates-Tatterson-Co., Inc., have are second to none, each being the best of its kind; besides this, the information and engineering service this organization is in position to render should be of great value to the architect, engineer, contractor, and builder.

Mr. Falk says that "Linofelt" and "Fibrofelt," their line of sound control and insulating materials made by the Union Fibre Co., Inc., Winona, Minn., have proven most satisfactory and that because of this recognized fact most of the larger apartments and buildings requiring such treatment have these favored materials incorporated in their construction.

Besides, "Linofelt" and "Fibrofelt" these builders have repeatedly used the "Heimbach" 20 th Century Garage Incinerators which are kept in stock for immediate delivery.

Such other outstanding national products as "Crittall" Windows and Doors; "Browne" Windows; "Ather" Weatherstrip and Sills; "Airoilite" Ventilating Louvres; together with outstanding connections for hollow metal doors, windows, and trim, fire and elevator doors makes it possible for them to give a unique and complete service.

Gen. H. Gates while not so well known on the West Coast was special representative of the Union Fibre Co., Inc., for many years, paying particular attention to sound control, insulation, and acoustical correction problems, he being one of the charter members of the Acoustical Society of America.

HOO HOO CHAPLAIN PASSES

The Rev. P. A. Simpkin, known to lumbermen throughout the country as "Parson" Simpkin, chaplain of the Order of Hoo Hoo since 1920, died at the home of his son, Dr. John M. Simpkin, at Marshfield, Ore., Aug. 1, after a long illness. He was born in England 64 years ago, became a student preacher and coming to America at 21 was admitted to the Methodist ministry. He affiliated with the Congregational church later. He preached frequently at Santa Monica during the 2 years prior to taking on active work for the Order of Hoo Hoo nine years ago.

PHILADELPHIA'S NEW LAW TO REGULATE SELECTION OF BIDDERS ON PUBLIC PROJECTS

(Reprint from The Constructor)

The accompanying draft of the new prequalification ordinance of the City of Philadelphia was passed by the City Council on July 2. This ordinance was written to include certain provisions which the Supreme Court of Pennsylvania held to be essential when it declared the first prequalification ordinance of the city to be unconstitutional.

The Supreme Court although holding the ordinance of June 14, 1929 invalid did state clearly that the principle of prequalification was entirely legal. The point to which the court objected was the provision that when an appeal was made from the decision of the awarding officer to a board of three judges that board was not allowed to review the questionnaires submitted by other bidders on the same project for purposes of consideration or comparison, nor could it remove from the list of qualified bidders any names which the awarding official had placed on it.

The new ordinance corrects this point by providing that the records of all bidders on a project shall be submitted to the board when there is an appeal. It is believed that this provision will meet the objections raised by the court and that the present law will be entirely satisfactory.

The ordinance has not as yet been approved by the mayor but it is expected that it will be signed by him at an early date.

An ordinance relating to and regulating proposals for work and material to be furnished to the City of Philadelphia; providing the amount, character and disposition of deposits to be made with such proposals; providing for the prequalification of prospective bidders for contracts for construction work by requiring answers to inquiries or questionnaires in advance of bidding showing the fitness of such prospective bidders to perform the said contracts; authorizing the refusal to receive or schedule bids where such information is refused or not given or when it appears that the said proposed bidder is not sufficiently qualified and fitted to perform the said contracts; providing for appeals from the decision of an awarding officer and repealing ordinances inconsistent herewith.

Section 1. The Council of the City of Philadelphia ordains. That every advertisement for proposals for work to be furnished for or on behalf of the city shall state the requirements that all bids must be accompanied by a certified check on a responsible bank or trust company or by a certificate of deposit issued by a responsible bank or trust company, to the order of the city treasurer. Said check or certificate of deposit shall be in the following amount:

\$100 when the total sum bid does not exceed \$1,000.

\$500 when the total sum bid exceeds \$1,000 and does not exceed \$5,000.

\$800 when the total sum bid exceeds \$5,000 and does not exceed \$10,000.

\$1,200 when the total sum bid exceeds \$10,000 and does not exceed \$25,000.

\$2,500 when the total sum bid exceeds \$25,000 and does not exceed \$50,000.

\$5,000 when the total sum bid exceeds \$50,000 and does not exceed \$100,000.

\$7,500 when the total sum bid exceeds \$100,000 and does not exceed \$150,000.

\$20,000 when the total sum bid exceeds \$150,000 and does not exceed \$500,000.

\$10,000 when the total sum bid exceeds \$500,000 and does not exceed \$1,000,000.

\$75,000 when the total sum bid exceeds \$1,000,000 and does not exceed \$2,500,000.

\$100,000 when the total sum bid exceeds \$2,500,000 and does not exceed \$5,000,000.

\$300,000 when the total sum bid exceeds \$5,000,000.

Said schedule covering the amount

of the check or certificate of deposit required shall be set forth either in the advertisement or in the proposal or specifications thereof. Such certificates of deposit shall be held by the director or other city official in charge of awarding such contract. Such checks shall be collected and the proceeds thereof deposited by the city treasurer of Philadelphia in a special account to be maintained for that purpose. Immediately upon the depositing of the said certified checks, the city treasurer shall draw a city treasurer's check in favor of each bidder in the amount of the individual certified check so deposited and shall return the said city treasurer's check or checks to the director or other city official in charge of awarding such contract. Should the successful bidder refuse or omit to enter into the contract when so required the amount so received from such bidder through such check or certificate of deposit or so much thereof as may be necessary to reimburse the city for the difference between the amount of the said bid and the actual cost to the city of the doing of the work or furnishing the material, together with any other expenses and costs that may be incurred by the city, shall be and become the property of the city as liquidated damages.

Section 2. Not later than one week prior to the time of the opening of the bids for the construction of public in charge of letting any contract, a sworn statement in answer to a questionnaire or inquiry in standard form, showing all the facilities, experience and financial resources the prospective bidder has to perform the work in a proper and satisfactory manner within the time stipulated. Such statements must designate and describe the plant, equipment and facilities of the bidder, relate his experience in doing the same or similar work and disclose his financial resources specifying the amount of his liquid and other assets and liabilities and the number and amount of his other existing contracts or commitments, including and indicating those with the city. Such statements shall be and remain confidential. No bid shall be received from any person, firm or corporation who has not submitted the sworn statement as above required. The director or other official in charge of letting the contract shall thereupon, within 48 hours, examine the said statements and shall make such investigation by personal interview with the prospective bidders or in such other manner as in his discretion appears necessary and shall

notify, by registered mail at the address given in that statement, each of the persons, firms or corporations that have submitted statements whether or not they are qualified for the work required and whether or not bids will be received from them and in addition shall notify them who have been qualified by him for the work. Any prospective bidder may within 24 hours after the receipt of such notice request a review of the matter before a board of three members to be composed of the said awarding officer and two other heads of departments, chiefs of bureaus of other departments or other city officials to be designated by the mayor, or in the absence of the mayor, or by a director of a city department in accordance with the order prescribed by Section 1 of Article III of the Act of Assembly approved June 25, 1919, entitled "An Act for the better government of this commonwealth," as amended. Such appeal shall place at issue before the board de novo the responsibility and qualifications of all those who have filed statements. The board shall hold a hearing at which any prospective bidder who has filed a statement shall be entitled to be heard and to submit any additional information to the board upon the matters and subjects covered by the questionnaire. Thereafter the board shall review the matter of the responsibility of all prospective bidders who have filed statements considering both the statements and the additional information given at the hearing and shall prepare and certify to the director or other awarding officer a list of those of the prospective bidders who are found qualified by the board or a majority thereof to perform the work. The director shall immediately notify all prospective bidders of the action of the board by registered mail as aforesaid. Bids shall be received only from the persons, firms or corporations named upon this list. Should any of the matters or things set forth in said statement or questionnaire or which may be submitted at such hearing be found to be false, deceptive or fraudulent, the certified check or certificate of deposit furnished by the said prospective bidder as required by the first section of this ordinance, shall be retained by the city as liquidated damages to reimburse it for loss or damage thereby sustained: Provided, That when the successful bidder shall be notified that the contract has been awarded to him the amount of the check or certificate of deposit shall be returned to the other bidders and the amount of the check or certificate deposited by the successful bidder shall be held as above set forth until the contract shall have been duly executed when it shall be returned to the contractor.

Section 3. Sections 1 and 2 of an ordinance approved June 14, 1929, entitled "An ordinance relating to and regulating proposals for work and material to be furnished to the City of Philadelphia; providing the amount, character and disposition of deposits to be made with such proposals; providing for the prequalification of prospective bidders for contracts for construction work by requiring answers to inquiries or questionnaires in advance of bidding showing the fitness of such prospective bidders to perform the said contracts; authorizing the refusal to receive or schedule bids where such information is refused or not given or when it appears that the said proposed bidder is not sufficiently

qualified and fitted to perform the said contracts; and repealing ordinances inconsistent herewith," and all other ordinances or parts of ordinances inconsistent herewith be, and the same are hereby, repealed: **Provided, however,** That Section 3 of the ordinance of March 21, 1928, and Section 3 of the ordinance of June 14, 1929, shall be and remain in full force and effect.

Standard Long Term Lease Agreement Plan of Real Estate Board

In making a long term lease how can both the owner and the tenant be sure that every ramification and condition contributing to the value of that property is considered when the lease is drawn, and that the agreement covers every question which may arise in regard to the property while it is under the long term lease? Do both the owner and the tenant have available a complete picture of the provisions covering new building fire clauses, taxes, security, condemnation, right to assign, maintenance and care of the buildings, repairs, insurance, and some forty other phases of the agreement which should be settled definitely in the long term lease?

It is to give such a panoramic picture of the long term lease to the owner of the property, to the tenant leasing the property, to the real estate broker negotiating the lease, and to lawyers and appraisers consulted concerning the property that the Brokers Division of the National Association of Real Estate Boards has prepared and adopted a standard outline of data for the agreements entered into in creating, selling or appraising long term leases. This standard outline, which represents more than a year of research and work on the part of a committee composed of men who have had extensive experience in dealing with long term leases, was officially approved by the Board of Directors of the National Association at the Association's recent Toronto convention.

The outline, providing as it does for the presentation of comprehensive and detailed data on the lease, while it is not a legal agreement, makes it possible to assemble all the facts relative to the lease and to be certain that no information germane to the negotiation has been omitted, according to Mark Levy, Chicago, chairman of the Brokers Division. Copies of the agreement form have been placed in the hands of every member of the Brokers Division, Mr. Levy announced.

Harold L. Reeve, Chicago, was chairman of the committee who drew up the standard outline. Other members of the committee were: Frazier O. Reed, San Jose, Calif., John J. Wagner, Cedar Rapids, Iowa, and Harold D. Hayward, Tacoma, Washington.

PACIFIC N. W. ELECTRICAL INSPECTORS TO MEET

The Northwestern Section of the International Association of Electrical Inspectors will hold its fifth annual convention next Monday, Tuesday and Wednesday at the Hotel Leopold, Bellingham, Washington. In connection with the convention a manufacturers' exhibit will be maintained featuring a display of all types of electrical fixtures and appliances

THE OBSERVER

What He Hears and Sees on His Rounds

The California State license law for contractors is receiving attention in the East. *Engineer-News Record*, New York, says:

"Legislatures have rarely been willing to enact contractors' license laws which are as drastic as their advocates demand or as has been found necessary after experience in their operation. It is not unexpected, therefore, that after about a year's operation of the California contractors' license law the official who has had the task of its administration is calling for changes. One is to extend the requirement for licensing by decreasing from \$200 to \$50 the amount of the contract that can be undertaken without a license. This change is tantamount to eliminating all unlicensed contracting. Another suggested change signifies more, however: to the effect that the contractor, in his application for license or renewal, shall name five persons as references, two of whom can testify to his credit standing and three to his past performance. In short, experience has indicated that some test of qualification is desirable. There is cheer in the conclusion, even though the test proposed is comparatively easy to satisfy. It may be recalled at this time that the license law originally drafted provided for pre-qualification by examination, but the California solons refused to approve a provision so drastic. The substitute of five references now asked, though far from satisfying the original demand for qualification, is an approach to that purpose. Perhaps it will prove to be the forerunner of a real measure of qualification. The citizen who accepts his state's certification of a legal contractor has a right to expect that it guards him in some measure against error in choosing his builder."

Bad news for the convention, maybe, but good news for the country.

Herbert M. Bierce of Winona, Minn., secretary-treasurer of the National Association of Referees in Bankruptcy, which opened its annual conference in Chicago, Aug. 18, reported bankruptcy on the wane.

Petitions are increasing in number in the cities, he said, but most of them involve small business. Comparatively few large concerns have failed recently. In the country districts the number of bankruptcy petitions is rapidly decreasing.

Some improvement in building situation throughout the United States was noted during July, according to official reports of building permits issued in 589 leading cities and towns compiled by S. W. Straus & Co. July volume of planned construction was \$187,570,714, against \$184,665,439 in June, a gain of about 1.6 per cent.

Normally there is a decline of close to 13 per cent between the two months. However, July declined 36 per cent from the \$292,912,550 volume of permits issued in July, 1929, indicating that building generally is far from normal.

These reports bring assurance of increasingly sounder conditions in the field of improved real estate, says the Straus survey.

With a view to avoidance of over-subdivision in American cities, and to gather accurate data of primary importance to the city and to the realtor subdivider, the Home Builders and Subdividers Division of the National Association of Real Estate Boards has passed a resolution authorizing the appointment of a committee to conduct research and investigation of the present and future needs for further subdivision in cities throughout the United States and Canada.

The Division expects to make the survey through local real estate boards. These latter organizations will be asked to collect the following data from their cities for inclusion in the nation-wide survey:

(1) Figures on anticipated population growth. Such data, the Division points out, now is being acquired constantly by the telephone industry to protect it in its plans for future extension and could be accumulated likewise by real estate boards.

(2) Measurements of the total area and a report on the total number of recorded subdivision lots which are not now being utilized, data to be presented for each section of the cities reporting.

(3) Statistics as to how many of these unutilized lots have street improvements in and are ready for use.

(4) Such other data as would aid in establishing a reasonable relation between city growth and supply of residential lots.

A committee of five Division members who will assume the responsibility for conducting the investigation is to be appointed by W. C. Miller, Washington, D. C., chairman of the Home Builders and Subdividers Division.

The wholesale price index number of the Bureau of Labor Statistics of the United States Department of Labor is here presented. Of the 550 commodities or price series for which comparable information for June and July was collected, increases were shown in 37 instances and decreases in 236 instances. In 257 instances no change in price was reported.

This index stands at \$1.0 for July, compared with \$0.6 for June. This is on the basis of the average for 1926 equalling 100. Based upon these figures the purchasing power of the 1926 dollar represented \$1.19 in July, 1930.

In the group of fuel and lighting materials there were slight advances in anthracite and bituminous coal, while petroleum products declined, causing a small net decrease for the group.

Metals and metal products again averaged lower, with small declines in most iron and steel products and larger declines in nonferrous metals, including aluminum, copper, lead, tin and zinc.

Building materials continued to decline, lumber, structural steel, and paint materials averaging lower than in June.

Little Giant electric tools for many diversified purposes, varying from small drills weighing 6½ lbs. to heavy reamers weighing 36 lbs., are described in a new catalog, No. 898, issued by the Chicago Pneumatic Tool Co., 6 East 44th St., New York City. This company has also published a 12-page bulletin, No. 865, on pneumatic demolition tools and sheeting drivers.

Total awards for concrete pavements for this year in the United States passed the 100,000,000 square yard mark August 2, according to Wm. M. Kinney, general manager of the Portland Cement Association. This mark was reached three weeks ahead of last year and the total was greater than that of any previous year. Mr. Kinney declares that this is in response to the urgent need for more motorizing space and that it expresses confidence in American economic conditions. Of the total awards 77,700,000 square yards are for concrete roads, and 23,000,000 square yards for streets and alleys. August 2 of last year concrete road awards totalled 62,190,000 square yards and in the record year of 1928, 62,400,000 square yards. The 1930 road total of this date, is therefore, over 15,000,000 square yards ahead of last year and the record breaking year of 1928.

Unemployment of trade unionists during the month of July changed little from June, says The Business Week. Of every 100 union workers, 21 are looking for jobs, according to American Federation of Labor figures for 24 cities. During June the unemployed were 20%.

The building trades suffer most with 37% out of work. The printing trades show only 7%; the metal trades show 21%.

The customary spring and summer improvement in building employment did not occur this year. In the printing trades unemployment gradually increased from 5% in January. Unemployment in the metal trades increased from 15% in January.

Altogether, there are roughly two and a half times as many trade union members now unemployed as there were a year ago.

FIR-TEX INSULATING BOARD PLANT OPERATING

The Fir-Tex Insulating Board Company, St. Helens, Oregon, is now operating. Its \$2,500,000 plant just completed.

The plant has a daily capacity of 3,000,000 square feet of 3/4" rigid board, and 150,000 square feet of 1" board, the latter an entirely new product, described as not-laminated, semi-rigid wood fibre superinsulate made in one piece.

J. H. Burnside is sales manager for the company. He was for fourteen years engaged in the wholesale lumber business in Denver, Colorado, and for eight years, previous, sales manager of the St. Paul and Tacoma Lumber Company at Tacoma.

Officers of the Fir-Tex Company are C. E. Dant, chairman; H. F. McCormick, president; A. E. Millington, vice president and general manager; C. A. Millington, superintendent; Kenneth Dawson, secretary-treasurer; K. J. Carney, assistant secretary-treasurer.

The Fir-Tex plant occupies six and one-half acres of ground, has 450,000 square feet of concrete floor space, is 1700 feet long, straight line operation, and has a 300-foot 8-deck Coe dryer.

ORDERS FOR ELECTRICAL GOODS SLUMP

New orders booked during the second quarter of 1930, as reported to the U. S. Department of Commerce by eighty-one manufacturers of electrical goods, were \$276,756,039, as compared with \$258,733,208, for the first quarters of 1930, and \$340,863,112 for the second quarter of 1929.

HERE — THERE — EVERYWHERE

The San Jose city council is holding special meetings to investigate paving costs. According to reports, prices for street paving in San Jose have long been felt in excess of the fair price and after a heated meeting last month, the council voted to investigate the reason for costs being higher in that community than in surrounding localities.

The Los Angeles board of public works has recommended to the city council that a bond issue of \$6,490,000 be placed on the November ballot for the construction of approximately 65 miles sewers to serve 53,580 acres. The proposal includes special items such as central outfall construction, disposal works for the Harbor District and an outfall system for the San Fernando Valley above Van Nuys.

The standardization and development committee of the Cast Iron Research Association has retained J. R. Dangler as secretary to look after all standardization and development work of the cast-iron pipe industry. His office will be located at 923 Union Trust Building, Cleveland, O. Dangler was formerly vice-president and general manager of the Massillon Iron & Steel Co. and later was assistant to the president of the Central Alloy Steel Co., of Massillon, Ohio.

Building of new hotels in Switzerland is to be forbidden in all cities under 100,000 population, until Dec. 31, 1933, according to a report received in the Department of Commerce from Acting Commercial Attache, Henry E. Stebbins, at Berne.

This law is an extension of the law of Oct. 16, 1924, put in effect by the Swiss Federal Council. As there are only four cities over 100,000 population in the country, namely, Zurich, Basel, Geneva and Berne, the law will affect chiefly the large tourist resorts where many of the best hotels are located, the report states.

Bond proposals of \$5,850,000 will be on the November ballot for the decision of San Francisco voters. For airport development an issue of \$4,000,000 is proposed. For a new garbage incinerator, \$1,000,000 is needed and for a new county jail, \$350,000. Of the airport bond issue, \$1,050,000 will make the final payment on the purchase of the site.

An associated Press dispatch from Mexico City, dated August 14, says that President Ortiz Rubio has directed the drafting of a law which will give all owners of vacant lots in Mexico City a stated period in which to construct buildings, with expropriation the penalty for failure. It was said the president's decision was due to his belief too many vacant lots had become rubbish heaps, harmful to the city's beauty.

Recommendation that the contractors on the three new grammar schools now in course of construction at Santa Cruz, use whenever possible local material and labor, is made by the directors of the Santa Cruz Chamber of Commerce. The schools will cost in the neighborhood of \$300,000. The action was taken on motion of J. B. Wilson, chairman of the Industrial Committee.

TRADE NOTES

The Building Specialties Co., 4711 Ballard Ave., Seattle, has been appointed distributor in Western Washington for "Ry-Lock," a newly patented door lock manufactured by the Ry-Lock Company, Ltd. of San Leandro.

The lock is installed by boring two holes, inserting lock and drawing up screws. Briefly described: No screws in rows; spindle extends clear through latch, making action permanently smooth, quiet, positive; double stop-lugs, special locking plate, and steel housing co-ordinated in patented arrangement which prevents locked knob being turned by force; five pin-tumbler cylinder key way.

A. M. Byers Co., manufacturer of wrought iron pipe, with headquarters office and factory at Pittsburgh, Pa., established a branch office in San Francisco several months ago to serve the Pacific Coast States. Offices are located at 1004 Crocker First National Bank Bldg. H. K. Browning is Division Manager.

Jenison Machinery Company, 58 Fremont St., San Francisco, has taken over the sales and service of the Wolf portable timber sawing machine, manufactured by the Reed-Prentice Corporation of Worcester, Mass. The saws are available in AC and DC electric and air operated types. The machines are used for timber cutting, sawing off piles, and for similar work.

ALONG THE LINE

J. F. Burton, 83, pioneer resident of Fresno and formerly a building contractor, died in that city August 12. Burton had been in California since 1857, coming over the northern trail from Missouri by ox team.

F. M. Clough, builder of the Chico plant and for many years Pacific Coast manager of the Diamond Match Company, died in Los Angeles last week following an operation.

Louis C. Hill, consulting engineer of Los Angeles, and W. E. Anderson of San Benito, former water commissioner, have been appointed consulting engineers on the America Section of the International Water Commission of the United States and Mexico. Karl F. Keeler, of Provo, Utah, will continue as associate engineer with headquarters at El Paso, Texas.

Larue Woodson, is now manager of the Nicolai Door Sales Co., as subsidiary of the Wheeler-Osgood Co., with headquarters at San Francisco.

George L. Hoxie, civil engineer and timberland expert, died at his home in Oakland, August 18. Hoxie was born in Fort Millerton, Fresno County, and was reputed to be one of the first children of American parentage born in that county. He held positions as county surveyor of Fresno County and city engineer of Fresno, but during his later years specialized in timber lands and became an authority on timber properties.

PITTSFIELD GARAGE FEATURES BATTLESHIP FLOOR CONSTRUCTION

An automatic arc welding machine, crawling along by its own power, has demonstrated its value in the construction of a new type of steel floor for buildings. The Wendell Garage, owned by the Berkshire Auto Company in Pittsfield, Massachusetts, is the first to use this machine on what is known as the "battleship type of floor construction." It was used at a considerable saving in cost in the erection of a two-story addition to the garage, soon to be completed.

The American Institute of Steel Construction is the sponsor for the new kind of flooring. It was first announced at a convention of that body in Biloxi, Mississippi, November 14, 1929. At that time the possibilities of the scheme were outlined and a demonstration was made of an automatic welding device developed by the General Electric Company for the application. Proponents of the method showed the new flooring involves much less weight than other types and is able to stand every kind of service.

Unusual Problems Faced

Justification for these claims was found in the Pittsfield application. Unusual construction problems confronted the owners, and these were entirely solved through the use of the welded floor, and its advantages over the conventional concrete slab floor were demonstrated. The architect, George E. Haynes, found it necessary to erect a two-story addition in the angle of a one-story building with a ramp leading from the ground floor of the existing building to the second floor of the new structure. The space available for the ramp was of limited length and, as it was essential that the practical rise should not be exceeded, these facts determined the height of the second floor. It was required that the first floor be without columns. As the depth of the second floor construction determined the ceiling height of the first floor, it was obvious that the ordinary concrete slab method of floor construction would have made the height in the clear less than that required by the owner. The span had to be cleared across the 60 foot width and the girders not less than 20 feet on centers.

Computations

Computations showed requirements of a 6-inch concrete slab and a 36-inch girder, making a total of 42 inches from the top of the second floor to the under side of the girder. This was more than could be used. The weight of the concrete was 75 pounds per square foot and the girder was 300 pounds to the foot, in addition to the other steel.

The battleship floor was investigated and it was immediately apparent that the height of the girder plus the thickness of the plate would be the total thickness of the floor. This showed a 33-inch, 200-pound girder representing a saving of 80 pounds per square foot on girders and of 9 inches in the depth of the floor.

The battleship floor consists of 5-inch, 10-pound I-beams, spaced 24 inches on centers with 3/4-inch steel plates placed from the center line of one I-beam to the center line of the adjoining I-beam and from center to center of girders. An allowance of 1/4-inch between plates was made. The battleship construction weighs

15 pounds per square foot as contrasted with 75 pounds per square foot of concrete slab construction. This startling decrease in dead load was surprising to construction men. It resulted in reduced column requirements and footings. The footings were very important as, in order to avoid cantilever, the footings extended under the existing walls at the column point.

The fabricators procured plates stretched and squared with a limitation of 1/8 inches plus or minus. The plates arrived on the premises by truck and were independently hoisted to the second floor and laid in place. The plates lay evenly at all points. This was done before any masonry work was done on the walls and without securing the plates in any way. The resulting platform was used by the other building trades for the construction of the walls, placing the roof on the trusses, etc. It was found that no movement of the plates took place at any time. It was only necessary to sweep the floor in order to clear the joints and to make them ready for welding.

There was used a total of 193 separate plates each 2 feet wide by 20 feet long, making a total area of 40x160 feet, or 6400 square feet.

Deflection Slight

Deflection in the floor is very slight, and mostly in the center. Normally garages have floors built up in the center to drain water from ice-covered cars to side gutters. It was impossible to do this with the battleship floor, so the center plate in each panel is cut out for a simple drain. This drain is connected with 1 1/2-inch pipe on the ceiling below to the side wall, and drains to two feet above the gutter of the first floor.

Deflection occurred only under load, and there is 100% recovery on removal of load. The floor is found to be clear and easily kept so; it is water tight and prevents any dripping on cars below.

Although the battleship floor can be covered with any material such as cement, rubber tile, linoleum, cork, etc., it was unnecessary in the Pittsfield garage as the steel floor provided enough friction to prevent skidding.

The total storage capacity on the battleship floor is 64 cars. The total capacity of the garage with the addition is approximately 500 cars.

The contract for the steel was given to the Haarmann Steel Co. of Holyoke, Mass., who sublet the erection of the steel and the welding of the floor to Farrell & Gregory of Pittsfield.

The General Electric welding machine used is a three-wheeled, self-propelled vehicle driven by an adjustable-speed motor. On the frame-work are mounted a welding wire feeding device, a reel of welding wire, the travel motor and the control devices. A gas engine-generator installed on a truck on the ground below supplied, through a trailing cable, the current for welding and for operating the travel motor. An auxiliary control panel is used at the point of welding.

The machine once started on a seam was almost entirely automatic in operation, following the seam accurately and feeding the electrode to the weld. About 30 minutes were required to weld 20 feet of the 1 1/2-inch

seam using 5/32-inch electrode.

Various types of welds are possible, but the one used at Pittsfield was a flush weld presenting a smooth surface all the way across the entire floor. The welds not only join the steel plates but also weld them permanently to the I-beam below, making an unusually rigid joint and one which is very resistant to stresses of all sorts.

PROVISIONS OF NEW TARIFF LAW APPLY TO LUMBER IMPORTS

Following are the provisions of the new tariff law which affects imports of lumber from Canada and other foreign countries to the United States:

Par. 401. Timber hewn, squared, or squared, otherwise than by sawing, and round timber used for spars or in building wharves; sawed lumber and timber not specially provided for; all the foregoing, if of fir, spruce, pine, hemlock or larch, \$1 per thousand feet, board measure, and in estimating board measure for the purpose of this paragraph no deduction shall be made on account of planing, tonguing and grooving; provided that there shall be exempted from such duty boards, planks and deals of fir, spruce, pine, hemlock or larch, in the rough or not further manufactured than planed or dressed on one side, when imported from a country contiguous to the Continental United States, which country admits free of duty similar lumber imported from the United States.

Par. 402. Maple (except Japanese maple), birch and beech: Flooring, 8 per centum ad valorem.

Par. 404. Cedar commercially known as Spanish cedar, lignumvitae, lancewood, ebony, box, granadilla, mahogany, rosewood, satinwood, Japanese white oak and Japanese maple: In the form of sawed boards, planks, deals and all other forms, not further manufactured than sawed, and flooring, 15 per centum ad valorem.

Par. 405. Veneers of wood, 20 per centum ad valorem, plywood, 40 per centum ad valorem, and in addition thereto on birch and alder plywood, 10 per centum ad valorem, wood unmanufactured, not specially provided for, 20 per centum ad valorem.

Par. 406. Hubs for wheels, heading bolts, stove bolts, last bolts, wagon blocks, car blocks, heading blocks and all like blocks or sticks, rough hewn or rough shaped, sawed or bored, 10 per centum ad valorem.

Par. 407. Casks, barrels and hogheads (empty), sugar-box shoeks and packing boxes (empty) and packing-box shoeks, of wood, not specially provided for, 15 per centum ad valorem.

Par. 408. Boxes, barrels and other articles containing oranges, lemons, limes, cranfruit, shadblows or pomeles, 25 per centum ad valorem provided that the thin wood, so-called, comprising the sides, tops and bottoms of fruit boxes of the growth or manufacture of the United States, exported as fruit-box shoeks, may be reimported in completed forms, filled with fruit, by the payment of duty at one-half the rate imposed on similar boxes of entirely foreign growth and manufacture. But proof of the identity of such shoeks shall be made under regulations to be prescribed by the Secretary of the Treasury.

HAVE YOU A "GRIEF" BOOK IN YOUR OFFICE?

Many engineering offices maintain a file or book for recording special difficulties arising on any job. In preparing specifications for a new job similar to one already built it is customary in one office to bring out the trouble or "grief" book, and by its help to work out a better or simpler detail or substitute a new design. Sometimes a full office conference is held and the brains of the combined staff are focused on the problem which the incident has brought to the front. The value of such a method of recording difficulties and their handling is especially apparent in case of personnel which changes from year to year, says Engineering News-Record.

Sometimes a grief book leads to the production of a manual of procedure and action with reference to many things aside from pure engineering. Government staffs like that of the U. S. Coast and Geodetic Survey have many such manuals continually being revised. Special Publication 140 on First Order Leveling is a good example. How to handle a definite difficult recurring political situation is quite as important as how to correct a faulty design. Failure to deal with the proper officials may cause as much irritation as building manholes whose tops do not remain level with the pavement, or letting crosswalks abut against the curb so that curb breakage results—the latter one of the commonest and worst sins in the municipal engineer's catalog.

Grief books in some form have been kept for years. So long as there is room for improvement, whether in human relations or in engineering details, such recording of troubles and their disposal should continue. Some lesson can be learned from each entry; and conscientious study of the record would soon do away with a world of paste-put specifications.

JULY CEMENT OUTPUT IS 17,080,000 BARRELS

The Portland cement industry in July, 1930, produced 17,080,000 barrels, shipped 20,147,000 barrels from mills and had in stock at end of month 26,298,000 barrels, according to the United States Bureau of Mines.

The production of Portland cement in July, 1930, showed a decrease of 1.4 per cent and shipments of decrease of 0.8 per cent against July, 1929. Portland cement stocks at the mills were 7.2 per cent higher than a year ago.

Relation of production to capacity for July was 77.8 per cent against 81.4 per cent for June, and for the 12 months period ended July, 66.1 per cent against 68.9 per cent for similar period ended July, 1929.

GEORGE KELLY, LUMBERMAN, PASSES

George H. Kelly, 63, Pacific Coast lumberman and general contractor of Portland, Ore., died in that city August 14, following a heart attack suffered two weeks previous while supervising construction work on the Lewis River power project in Washington.

Following his return from France, where he was a lieutenant colonel in command of the 20th engineers and supervised extensive lumber operations, he formed the Western Oregon Lumber Company at West Fir, Oregon. He was chairman of the board.

In 1923 he also organized the Kelly-Sullivan Company of which he was head.

He was born at Springfield, Ore., and is survived by his widow and four daughters.

CEMENT CONTRACTORS ORGANIZE IN LOS ANGELES

Cement Contractors' Association of Los Angeles was organized last week by prominent cement contracting firms in the Southern city.

Organization was perfected with A. O. Miller acting as temporary chairman. The constitution and by-laws of the association were adopted and the next meeting, for the purpose of electing permanent officers, will be held August 26.

The purpose of the organization is "To create a standard specification for the laying of cement floors, adopt a code of ethics, maintain high standards in the conduct of cement work, to combat unfair and dishonest practices, and to oppose unreasonable and excessive prices."

The charter members of the association include R. A. Wittick of the Kalman Floor Co., S. L. Martinez, W. A. Buxton and Rosa, of Buxton & Rosa, Gus Odemar, L. E. Meisner, Davis & Davis, and A. O. Miller of A. C. Horn Co.

A. H. MEYN ENTERS FIELD FOR HIMSELF

Arthur H. Meyn, former salesmanager for the United States Metal Products Company of San Francisco and for fifteen years associated with the construction industry, is now in business for himself, operating under the firm name of Arthur H. Meyn Company with headquarters at 163 Second Street.

Meyn Company will be Pacific Coast distributors for the following manufacturers and their products: Steel windows, Mesker Brothers Iron Company; rolling and fireproof doors, Variety Rolling Door Company; ornamental and architectural bronze, The Newman Manufacturing Co.; steel lockers and shelving, Northwestern Steel Products Company, and heating and cooling tubes, Thermal Units Co.

In addition to handling lines of high class products for the building interests, Mr. Meyn will feature personal service with all sales.

SWIMMING POOLS MUST BE LICENSED

Every swimming pool in the state, whether public or private, must have a license from the state board of health, Attorney General U. S. Webb ruled in an opinion to Dr. W. M. Dickie, state director of public health.

Webb declared all pools were embraced within the terms of the law, which went into effect July 27, 1927, giving the state board of health supervision over sanitation and safety of all swimming pools and bath houses.

The law provides it is unlawful to build or operate a swimming place without a proper permit. Board of health inspectors are empowered to inspect premises at all reasonable times to see that provisions of the act are enforced. Violation of the act is a misdemeanor, punishable by a fine of from \$25 to \$500, a county jail term of not more than six months, or both.

National Equipment Corp., Milwaukee, Wis., is distributing the new pictorial catalog. This catalog illustrates the complete N. E. C. line of equipment.

Contractor Liable For Poor Materials, Tennessee Court Rules

A contractor is liable in damages to the owner for any depreciation to the property resulting from supplying building material not suited for the intended purpose, unless the contract clearly relieves the contractor from responsibility. Also, a manufacturer is liable under the same circumstances to the owner. This interesting point of the law was held in Tennessee Co. v. Ely, 21 S. W. (2d) 398, says The Constructor.

A manufacturer sold cinder building blocks under a contract containing a warranty that the blocks were made of cement and cinders that were free from combustible matter.

The owner refused to pay when he discovered that the blocks were not fireproof. The court held the owner not bound to pay the contract price, and held the seller liable for \$640 damages. This court said:

"In the case of breach of warranty of quality, such loss, in the absence of special circumstances showing proximate damages of a greater amount, is the difference between the value of the goods at the time of delivery to the buyer and the value they would have had if they had answered to the warranty."

SEEK FIVE-DAY WEEK ON CITY PROJECTS

To relieve unemployment the San Francisco local of the United Bridge, Iron Workers and Pipe Fitters' Union, in a communication to the Board of Supervisors, requested that the five-day working week be enforced on all municipal construction. City employees now operate on the five and one-half day week.

The San Francisco Builders' Exchange and the Building Trades Council, the union cities in the communication, has endorsed the five-day week.

SOUTHERN BUILDERS PROMOTE BUILDING FINANCE CONTEST

A contest for the best solution to the problem of the regulation of building finance, sponsored by the Southern California Conference of Builders' Exchanges, is to be held under a direction of a special legislative committee. Prizes amounting to \$350 will be awarded the winners. Contestants are expected to be attorneys and law students.

The committee consists of George W. Israel, Pasadena; Frederic Sanford, Santa Ana, and Gene Bradbury, Long Beach.

DE LONG IS PACIFIC COAST MANAGER FOR GRINNELL

With the elevation of Frank B. DeLong, for several years manager of the Seattle branch office of Grinnell Company of the Pacific, to the position of Pacific Coast manager, Seattle automatically becomes the head office of the company on the Pacific Coast. R. F. Wadick, who has been Seattle manager of the fire protection division of the company, has been promoted to the office of manager of these divisions of all Pacific Coast branches. Offices are located in Seattle, San Francisco, Oakland and Los Angeles.

Advantages of the Barnes plunger sludge pumps, and details of design, are given in bulletin 21W of the Barnes Mfg. Co., Mansfield, Ohio.

Building News Section

APARTMENTS

Sub-Figures Being Taken By Owner.
APARTMENTS Cost, \$250,000
 SAN FRANCISCO. SW California St. and Octavia St.

Six-story and basement class C brick apartments (43 3-4 and 5-room apts.)

Owner and Builder—H. D. Hogrefe & Son, 2999 California St.

Architect—E. E. Young, 2002 California St.

Reinforced concrete curtain walls, tar and gravel roof, two elevators, steam heating system.

Architect Taking Segregated Bids.
APARTMENTS Cost, \$175,000
 OAKLAND, Alameda Co., Cal. Merritt Ave. near Cleveland St.

Six-story Class C concrete apartments (35 2-3 and 4-room apts.)

Owner and Builder—Rockwell & Nelson, 38th and Manila, Oakland.
 Architect—Chester Treichel, American Bank Bldg., Oakland.

Bids are wanted on all portions of the work.

Construction To Start Shortly.
APARTMENTS Cost, \$100,000
 LOS ANGELES, Cal. No. 745 S. Normandie Avenue.

Five-story and basement Class B brick apartments (60x113 feet).

Owner and Builder—Irrving Siegel, 6235 S. St. Andrews Place, Los Angeles.

Architect—Max Maltzman, Union Bk. Bldg., Los Angeles.

Plans Prepared.
APARTMENTS Cost, \$45,000
 SANTA BARBARA, Santa Barbara Co., Cal. Ambassador Park Tet

Two-story frame and stucco apartments (95x125 feet).

Owner and Builder—Umberto Dardi, 530 Plaza Rubio, Santa Barbara.

Architect—Not given.
 Tile roof, ornamental iron work, electric refrigeration, tiled bathrooms, closet beds, garages, etc.

Painting Contract Awarded.
APARTMENTS Cost, \$37,500
 SAN FRANCISCO. Greenwich and Franklin Streets.

Three-story frame and stucco apartments.

Owner—Mrs. Sara Schwalbe, 1597 Greenwich St., San Francisco.

Plans by Contractor.
 Contractor—Laughlin Constr. Co., Rm. 421, Mills Bldg., San Francisco.

Painting—W. G. Thompson, 336 Church St., San Francisco.

As previously reported, stairs awarded to P. O. Lund, 2745 16th St., S. F.; wiring to F. F. Goodman, 350 Waller St., S. F.; electric refrigeration to Frigidaire Corp., 16th and Harrison Sts., S. F.; mill work to Portman Planing Mills, 1019 Mission St., S. F.

Sub-bids are being taken on plastering, roofing and sheet metal work.

August 16, 1930
 Working Drawings Being Prepared.
APARTMENTS Cost, \$—
 CALIFORNIA. Location Withheld.

Seventeen-story and basement Class A steel frame and concrete apartment-hotel, 152 hotel rooms with baths and 40 apartments of 2, 3,

4 and 5-rooms each; 11 stores, etc.

Owner—Withheld until plans are further advanced.

Architect—Oscar R. Thayer, 110 Sutter St., San Francisco.

The ground floor will be occupied by lobby, dining room, 11 stores of which six will be arcade stores, in addition to offices for the hotel management. The site, building and furnishings will involve an expenditure of \$1,000,000. Plans will be completed about September 15, when bids for construction will be asked.

Construction Postponed Indefinitely.
APARTMENTS Cost approx. \$50,000
 SAN FRANCISCO. Haight and Steiner Streets.

Five-story steel frame and concrete apartments.

Owner—Mrs. L. Hagmaler, 222 Fillmore Street.

Architect—Bliss & Fairweather, Balboa Bldg.

Plans Being Prepared.
APARTMENTS Cost, \$300,000
 LOS ANGELES, Cal. S Gramercy Place.

Eight-story Class A reinforced concrete apartments (40x122 ft.)

Owner and Builder—Peter Elvad, 6231 Afton Place, Los Angeles.

Architect—Thomas P. Barber and Paul Kingsbury, Union Insurance Bldg., Los Angeles.

Sub-Bids To Be Taken In One Week.
APARTMENTS Cost, \$250,000
 SAN FRANCISCO. N Vallejo St. and W Franklin St.

Six-story concrete apartments (two basements, 48 3-4 and 4-room apts.)

Owner and Builder—W. Van Herrick, 50 Laguna St.

Engineer—J. G. Little, Company, 251 Kearny St.

Plans Being Completed.
APARTMENTS Cost, \$150,000
 SAN FRANCISCO. Pacific Ave. and Baker Street.

Three-story steel frame and concrete semi-fireproof apartments (six 6-room apts.)

Owner and Builder—W. R. Voorhies, Inc., 369 Pine St., San Francisco.

Plans by A. D. Janssen, 369 Pine St., San Francisco.
 Sub-bids will be taken within a few days by owner.

A Demonstration of the

SKILSAW PORTABLE ELECTRIC HAND SAW

Will solve your cutting problems.
 (Four Models, 1/2 to 1 h. p.)

ELECTRIC HAMMERS ELECTRIC DRILLS GRINDERS, BUFFERS

PETER H. NELSON

Labor Saving Portable Electric Tools.

1222 Mission St. Underhill
 San Francisco 1267

Sub Contracts Awarded.

APARTMENTS Cost, \$75,000
 OAKLAND, Alameda Co., Cal. South Glenn 500 W Linda St.

Three-story frame and stucco apartments with full concrete basement (66 rooms).

Owner—Leo Lesser, 805 Syndicate Bldg., Oakland.

Plans by Builder.
 Contractor—F. A. Muller, Syndicate Bldg., Oakland.

Tile and composition roofing, steam heating system and all modern conveniences.

Excavating—J. Catucci, 1212 15th Ave., Oakland.

Concrete—J. H. Fitzmaurice, 354 Hobart St., Oakland.

Pans & Reinforcing Steel—Soule Steel Co., Rialto Bldg., San Francisco.

Plumbing, Heating & Electric—Scoss, Roebuck Co., 2633 Telegraph Ave., Oakland.

Sheet Metal—East Bay Sheet Metal Works, 1101 Market St., Oakland.

Plastering—D. F. Driscoll, 937 57th St., Oakland.

Roofing—A. K. Goodmundson, 25th & Clement St., Oakland.

Mill Work—W. D. Herrick, 82 Franklin St., Oakland.

Contract Awarded.
APARTMENTS Cost, \$782,000
 LOS ANGELES, Cal. San Marino and Serrano Sts.

Eight-story and basement Class A reinforced concrete apartments.

Owner—Jacob Braunstein.

Architect—F. A. Brown, 1489 W. Washington St., Los Angeles.

Contractor—Far West Construction Co., 315 W. Ninth St., Los Angeles.

Plans Being Prepared.
APARTMENTS Cost, \$150,000
 OAKLAND, Alameda Co., Cal. Crescent Ave. near Santa Clara.

Three-story frame and stucco apartments with Class C concrete garage.

Owner and Builder—R. E. Mayer, 1129 McKinley St., Oakland.

Architect—Douglas Stone, Great Western Power Bldg., Oakland.

Sub-bids will be taken in about three weeks.

Contemplated.
APARTMENTS Cost, \$—
 SAN MATEO, San Mateo Co., Cal. Baywood Park.

Twelve-story apartments (type of construction not determined)

Owner—Robert S. Atkins, 150 Sutter St., San Francisco.

Architect—Not Selected.

Architect Taking Sub-Bids.
APARTMENTS Cost, \$175,000
 SAN FRANCISCO. NE Buena Vista Ave. and Waller St.

Six-story class C basement and sub-basement apartments (55 2- and 3-room apts. and one 6-room apt.)

Owner—Sunset Investment Co.

Architect—Albert H. Larsen, 447 Sutter St.

Contractor—Mission Concrete Co., 270 Turk Street

Sub-bids are being received by architect on all portions of the work, except excavation, reinforcing steel, concrete work, rough carpentry, metal

work, lathing and plastering, which are being handled by the general contractor.

Contract Awarded.
APARTMENTS Cost, \$30,000
AKLAND, Alameda Co., Cal. S
 Athol E B-18th Street.
 Three-story frame and stucco apart-
 ments (30 rooms).
 Owner—C. H. Morehouse, 176 Athol
 Ave., Oakland.
 Architect—None.
 Contractor—C. W. Leekens, 176 Athol
 Ave., Oakland.

Plans Being Completed.
APARTMENTS Cost, \$15,000
HURLINGAME, San Mateo Co., Cal.
 Two-story frame and stucco apart-
 ments (2 4-room apts.)
 Owner—Edward Stack.
 Architect—Edwards & Schary, 525
 Market St., San Francisco.
 Bids will be taken in about two
 weeks.

Sub-Bids Wanted.
APARTMENTS Cost, \$45,000
SAN FRANCISCO, N North Point
 St. 90 E Broderick St.
 Three-story frame and stucco apart-
 ments with brick basement (12 3
 room apts.)
 Owner & Builder—Robinson & Johns-
 ton, 871 31st Ave., San Francisco.
 Plans by Lawrence Ebbets, Call Bldg.
 San Francisco.

Will have steam heating system,
 Kewanee boilers, composition 10-year
 roof and terra cotta tile, kelvinator
 refrigeration, canvas walls and cell-
 ings.

BONDS

MODESTO, Stanislaus Co., Calif.—
 Sale of the \$21,000 bond issue of the
 Grayson School District has been post-
 poned to August 29 by the county su-
 pervisors; proceeds of the sale are to
 finance erection of a new school.

CHURCHES

Completing Plans.
CHURCH Cost, \$50,000
POMONA, Los Angeles Co., Cal.
 Gibbs and Alvarado Streets.
 Masonry church (118x160 feet) (Sun-
 day school, banquet hall, kitchen
 and vicarage).
 Owner—St. Paul's Episcopal Church
 Rev. Bertram A. Warren, Pastor)
 Architect—Carleton M. Winslow, Ar-
 chitects Bldg., Los Angeles.

Sub-Bids Will Be Taken Next Week.
REMODELING Cost, Approx. \$25,000
SAN FRANCISCO, California and
 Franklin Streets.
 Remodel Sunday school.
 Owner—First Church of Christ
 Scientist.
 Architect—Henry H. Gutterson, 526
 Powell St., San Francisco.
 Contractor—Moore & Madsen, 557
 Market St., San Francisco.

Planned.
CHURCH Cost, \$200,000
PASADENA, Los Angeles Co., Cal.
 Lake Ave. and Maple St.
 Church plant.
 Owner—Lake Avenue Congregational
 Church (Rev. James Henry Hut-
 chinson, Pastor)
 Architect—Marston-Maybury, 25 S.
 Euclid Ave, Pasadena

Contract Awarded.
CHURCH Cost, \$100,000
LOS ANGELES, Cal. No. 7501 Holly-
 wood Blvd.
 One-story Class C concrete church
 (48x98 ft.)
 Owner—St. Thomas Parish.
 Architect—Harold H. Martin, Slavin
 Bldg., Pasadena

Contractor—Robert S. Martin, 522 E.
 Broadway, San Gabriel.
 Cast stone trim, copper gutters, pipe
 organ.

Contract Awarded.
CHURCH Cost, \$15,000
REDWOOD CITY, San Mateo Co., Cal.
 James and Hudson Sts.
 One-story, basement and mezzanine
 floor frame and stucco church (au-
 ditorium to seat 325; six Sunday
 school rooms, ladies' parlor, pas-
 tor's study and dining room).
 Owner—First Baptist Church (Rev. C.
 H. Gatchell, pastor).
 Architect—G. Hodgson, Daniel Staf-
 ford Bldg., Redwood City.
 Contractor—J. W. Cabbage, Palo Alto.
 Building permit applied for.

FACTORIES AND WARE- HOUSES

Plans Being Figured—Bids Close Sept.
 2nd.
HANGAR Cost, \$—
STOCKTON, San Joaquin Co., Calif.
 Municipal Airport.
 Frame and galvanized hangar (4 plane
 capacity; 50x60-ft.)
 Owner—City of Stockton.
 Plans by Lyle Payton, city engineer,
 City Hall, Stockton.
 Plans are on file in the office of the
 city clerk, M. E. Page.

SAN FRANCISCO—E. Anderson,
 762 Clementina St., as \$2460 awarded
 contract by State Board of Harbor
 Commissioners, for painting shed on
 Pier No. 28. Frank White, Engineer,
 Ferry Bldg.

Working Drawings Being Prepared.
WAREHOUSE Cost, \$125,000
SAN FRANCISCO, Eleventh and
 Bryant Streets.
 Two-story reinforced concrete central
 storage warehouse (flat slah
 construction).
 Owner—City and County of San Fran-
 cisco.
 Architect—Dodge A. Reidy, Pacific
 Bldg., San Francisco.

Plans Being Prepared.
PRINTING SHOP Cost, \$—
NEWMAN, Stanislaus Co., Cal.
 One-story brick printing shop.
 Owner—Newman Index Company.
 Architect—Harcman & Russ, Ber-
 keley Bank Bldg., Berkeley.

MAYWOOD, Los Angeles Co., Cal.
 —Consolidated Steel Corp., 1200 N.
 Main St., has broken ground prepar-
 atory to the construction of the cor-
 poration's new plant on a 50-acre site
 at Slauson and Eastern Aves. May-
 wood. The plant will provide for
 structural steel operations and the
 production of Gallagher pontoon
 decks and bolted tanks and will in-
 clude the following buildings: main
 structural shop, 222x600 ft., pontoon
 deck plant, 135x475 ft., template shop
 and powerhouse, 75x275 ft., ware-
 house, 50x220 ft., maintenance and
 rivet-making building, 75x220 ft.,
 truck garage, 75x90 ft., blacksmith
 shop, 75x65 ft., washroom and lockers,
 22x60 ft., shop office, 42x50 ft., and a
 110-ft. 100,000 gallon water tower and
 tank. All buildings will be steel
 frame structures with corrugated iron
 sides and roofing, steel sash and con-
 crete footings. Receiving and ship-
 ping yards will be equipped with 18
 double-girder type cranes. Cost will
 be approximately \$1,000,000. The
 owner will handle construction with
 its own forces with the exception of
 underground and overhead piping,
 electrical work, road work and rail-
 roads, for which contracts may be
 awarded. In the event contracts are
 awarded for the work mentioned bids

will be taken through the owner's
 purchasing department.

Bids Being Taken.
INDUSTRIAL BLDG. Cost, \$—
SAN FRANCISCO, SE Russ St. and
 Howard St.
 Three-story reinforced concrete in-
 dustrial building.
 Owner—Eng-Skell Co., 208 Mission St.,
 San Francisco.
 Engineer—A. C. Grievank, 208 Mission
 St., San Francisco.

Bids are now being received on deep
 well, turbine pump and boiler, steel
 sash and electric work.
 As previously reported, pile driving
 awarded to M. B. McGowan, Call
 Bldg., San Francisco.

Contract Awarded.
WAREHOUSE Cost, \$1,000,000
SEATTLE, Wash. Foot of Vine St.
 Pier and warehouse.
 Owner—American Can Co., New York
 City, New York.
 Engineers—Engineering Department
 to Owner, C. J. Pries, Chief Engi-
 neer, New York, N. Y.
 Contractor—A. W. Quist Co., Hoge
 Bldg., Seattle.

Both structures will be of Class A
 construction. The pier will be 160x
 576 ft. and the warehouse proper 132x
 550 ft., two and three stories in
 height. The three-story portion of
 the building will be 130x300 ft. The
 pier portion is designed to carry 1060
 pound live load per square foot and
 the warehouse 400 pounds per square
 foot. The foundation award has been
 given to Henry & McFee, Northern
 Life Bldg., Seattle, and the flooring
 contract to the Redwood Block
 Flooring Co. of San Francisco.

MODESTO, Stanislaus Co., Calif.—
 The pipe yard committee has recom-
 mended to the board of directors of
 the Modesto Irrigation District, that
 the district purchase and install ma-
 chinery at the Woodland Ave. yard
 for the manufacture of concrete pipe.
 The committee members are: J. S.
 West, A. W. Stratton and J. B. Fis-
 calini.

Structural Steel Contract Awarded.
SHED Cost, Price, \$14,868
SAN FRANCISCO, Pier No. 1.
 One-story shed (reinforced concrete
 construction; steel columns, wood
 roof).

Owner—State Board of Harbor Com-
 missioners.
 Engineer—Frank White, Ferry Bldg.,
 San Francisco.
 Contractor—Barrett & Hilp, 918 Har-
 rison St., San Francisco.
Structural Steel—Moore Drydock Co.,
 Balfour Bldg., San Francisco.

Plans Being Figured—Bids Close Sept.
 16, 2 P. M.
SHOP, ETC. Cost, \$—
IONE, Amador Co., Cal. Preston State
 School of Industry.
 One-story balcony brick shop building
 with steel roof construction and
 slate roof; floor area 3,000 sq. ft.,
 and two-story and part basement
 brick and frame superintendent's
 cottage (10 rooms).

Owner—State of California.
 Architect—State Department of Pub-
 lic Works, Division of Architec-
 ture, Public Works Building, Sacra-
 mento.

Bids are wanted for (a) general con-
 tract and (b) mechanical work. Me-
 chanical work includes plumbing, heat-
 ing, ventilation and electric work.
 Separate bids will be received for elec-
 trical work and for plumbing, heating
 and ventilating work. Combined bids
 will also be received for all three
 branches of the work.

See call for bids under official pro-
 posal section in this issue.

Sub-Contracts Awarded.

ALTERATIONS Cost, \$15,000
SAN FRANCISCO. SW 11th and Mission Streets.

Alterations to greasing sales shop and two 1-story and mezzanine floor buildings.

Owner—J. H. and H. Herbst, 1524 Mission Street.

Engineer—N. B. Green, Sharon Bldg.
 Contractor—F. R. Siegrist, 604 Mission Street.

Reinforcing Steel—Gunn, Carle & Co., Ltd., 441 Market St.

Brick Work—Emil Hogberg, 249 Edge-wood Ave.

Electrical Work—Pacific Electric Construction Co., 1496 Mission St.

Structural Steel—Judson - Pacific Co., 609 Mission St.

Sub-Bids Being Taken.

FACTORY Cost, \$—
SOUTH SAN FRANCISCO. San Mateo County, Cal.

One-story steel frame & brick factory Owner—Seattle Chain & Mfg. Co., 6921 E Marginal Way, Seattle.

Plans by Austin Co. of California.

Contractor—Austin Co. of California, Ray Bldg., Oakland.

Piling—Ben. C. Gerwick, Inc., 112 Market St., San Francisco.

Sub-Contracts Awarded.

DAIRY BLDGS. Cost, \$—
BUTTONWILLOW. Kern Co., Cal.

Buttonwillow Ranch.

Group of dairy buildings.

Owner—Adohr Stock Farms.

Architect—Morgan, Walls & Clements Van Nuys Bldg., Los Angeles.

Contractor—Macdonald & Driver, 111 W-Seventh St., Los Angeles.

Cement and Lumber—King Lumber Co., Bakersfield.

Plumbing—H. L. Cary, Los Angeles

Electric Wiring—Advance Electric Co., Bakersfield.

Plastering—Alex Simpson, Bakersfield.

Painting—Parker-Judge Co., Los Angeles.

Sub-Contract Awarded.

FACTORY Cost, \$30,000
OAKLAND. Alameda Co., Cal. 46th and Telegraph Aves.

Two and three-story frame and stucco factory and warehouse.

Owner—Margaret Burnham Candy Co., 3800 Piedmont Ave., Oakland.

Plans by George Koster, 2355 Leavenworth St., San Francisco.

Contractor—Vogt & Davidson, Inc., 185 Stevenson St., San Francisco.

Lumber—Hogan Lumber Co., 2nd and Alice Sts., Oakland.

Structural Steel—California Steel Co., 2nd and Harrison Sts., Oakland.

Sub bids are being taken on all other portions of the work.

To Be Done By Day's Work By Owner

BUILDING Cost, \$40,000
SAN FRANCISCO. N Army St. bet. Mississippi and Missouri Sts.

One-story steel frame industrial bldg. Owner—Soule Steel Co., 916 Rialto Building.

Engineer—J. A. Cole, 2178 Oregon St., Berkeley.

Preliminary Plans Being Prepared.

WAREHOUSE Cost approx. \$150,000
SAN FRANCISCO. Sansome and Vallejo Sts.

Three-story reinforced concrete warehouse.

Owner—Poultry Producers of Central California, 700 Front St.

Architect—H. C. Baumann, 251 Kearny Street.

SAN FRANCISCO.

—Until September 3, 2:30 P. M., bids will be received by Board of Public Works to erect pump house to house Sunset Pumps; estimated cost, \$3,500. Deposit of \$10 required for plans, obtain-

able from San Francisco Water Department, 425 Mason St. Deposit for plans is returnable.

GARAGES AND SERVICE STATIONS

Cast Iron and Wheel Guard Contract Awarded.

SERVICE STATION Cost, \$—
OAKLAND. Alameda Co., Cal. 13th and Franklin Sts.

Brick service station.

Owner—Standard Oil Co., 225 Bush St., San Francisco.

Plans by Eng. Dept. of Owner.

Contractor—C. Dudley De Velbiss, 369 Pine St., San Francisco, and 354 Hobart St., Oakland.

Cast Iron. Etc.—United Iron Works, 580 Second St., San Francisco.

Wrecking Under Way.

ALTERATIONS Cost, \$50,000
SAN FRANCISCO. No. 860 Howard Street.

Alterations and additions for reinforced concrete auto sales bldg.

Owner—Pacific Gillespie System, Inc., 852 Howard St., San Francisco.

Architect—Eng. Dept. of Owner.

Lessee—Musta Wait Motors, (Ford Agency), 270 7th St., S. F.

Contractor—Villadsen Bros., 417 Market St., San Francisco.

Wrecking—Vassallo & Gamillon, 1762 Newcomb St., San Francisco.

Completing Plans—Contract Awarded.

GARAGE Cost, \$25,000
SAN FRANCISCO. San Jose Avenue near Plymouth.

One-story and mezzanine floor concrete garage.

Owner—E. Guglielmo.

Plans by D. E. Jaekle, Call Bldg.

Contractor—W. French, 611 Lisbon St.

Sub-bids will be taken in a few days.

Plans Being Figured.

SERVICE BLDG. Cost, \$50,000
SAN FRANCISCO. SW 11th and Howard Streets.

One-story class C tire service building.

Owner—Goodrich Silvertown, Inc., 1660 Pine Street.

Plans by Eng. Dept. of Owner.

Lindgren & Swinerton, Inc., 225 Bush St., are figuring the plans.

Owner Taking Bids.

SERVICE STATION Cost, \$5000
OAKLAND. Alameda Co., Cal. East 12th St. 23d Ave. and 23rd Ave.

Place.

Steel frame super-service station (50-ft. derrick, restaurant, tire and battery shop; entrance from all streets).

Owner—N. Badding, 118 Athol Street, Oakland.

Architect—M. I. Diggs and F. A. Hill, 1448 Webster St., Oakland.

Contract Awarded.

GARAGE Cost, \$10,000
OAKLAND. Alameda Co., Cal. East Chestnut S intersection San Pablo.

One-story tire garage.

Owner—East Bay Hotel Corp., 3501 San Pablo Ave., Oakland.

Plans by Mr. Cooley, 354 Hobart St., Oakland.

Contractor—Sommarstrom Bros., 2924 San Pablo Ave., Oakland.

GOVERNMENT WORK AND SUPPLIES

SAN FRANCISCO.—C. Jorgensen Co., 604 Mission St., at \$3,385 awarded contract by Constructing Quartermaster, Fort Mason, to close part of Main Corridor No. 36, at Letterman General Hospital, Presidio.

SAN FRANCISCO.—Until August 25, 10 A. M., under Schedule No. 928-

31-42, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver 8 automatic electric water heaters, 30-gallon capacity, 220 volts, 2000 watts, with galvanized tanks. To be packed in wooden boxes, iron strapped, suitable for export shipment. To be equal and similar to #W.C.-425 Westinghouse, as mfgd. by Westinghouse Elec. & Mfg. Co.

Contracts Awarded.

MARBLE WORK Cost, \$—
SAN FRANCISCO. The Presidio.

Tiling and marble work in Cystoscopic room and two toilet rooms at Letterman General Hospital.

Owner—U. S. Government.

Architect—Constructing Quartermaster, Fort Mason.

Alma Art Tile Co., 1735 San Bruno Ave., awarded contract for Cystoscopic room at \$560.

Malott & Peterson awarded contract for two toilet rooms at \$1780.

CRESCENT CITY, Del Norte Co., Cal.

—Until September 3, 11 A. M., under Specification No. 624, bids will be received by Public Works Officer,

Navy Yard, Mare Island, for improvements to fire protection and deepening of the existing well at the U. S. Naval Radio Compass Station at Point St. George, Crescent City.

Specifications obtainable from Commandant at the Mare Island Navy Yard and obtainable on deposit of \$5, returnable, checks for same to be made payable to Chief of the Bureau of Yards and Docks.

See call for bids under official proposal section in this issue.

PHOENIX, Ariz.

—Until Sept. 1, 2 P. M., bids will be received by Jno. B. Brown, superintendent, U. S. Indian School, Phoenix, to furnish 180

seamless steel, hot roll boiler tubes, not less than .120-inch thick, O. D. 3½-in. by 18-ft. long. Specifications on file at U. S. Indian Warehouse, San Francisco and obtainable from superintendent.

SAN FRANCISCO

—Until September 2, 11 A. M., bids will be received by Constructing Quartermaster, Fort Mason, to install new control panel board and repair motors in Laundry Building No. 24 at the Letterman General Hospital. Specifications and further information obtainable from above.

KEYPORT, Wash.

—Clay Spray Painting Co., 6006 6th St., N.E., Seattle, at \$3800 awarded contract by Bureau of Yards and Docks, Navy Department, for painting radio towers at Keyport, Wash.

LIVERMORE, Cal.

—Following contracts awarded by U. S. Veterans' Bureau, Arlington, Bldg., Washington, D. C., for work at Livermore Veterans' Hospital: Deep well, Byron Jackson Co., Berkeley, \$2,875; pipe line, P. L. Burr, 320 Market St., San Francisco, \$6,983; power line, Puente Electric & Mfg. Co., 566 Polson St., San Francisco, \$3,141; (bids opened June 30 in Palo Alto).

PLAINE, Wash.

—In addition to those previously reported, following are prospective bidders, to erect inspectors' station building at Plaine, Wash., bids to be opened August 26 by Supervising Architect, Treasury Department, Washington, D. C.

Pearson & Thomas, 920 Virginia St., Bellingham, Wash.

Selene and Standen, Bellingham, Wash.

Chastain & Dorsey Inc., 206 State St., Bellingham, Wash.

Chas. S. Chisom, Marine Dr., Route No. 2, Bellingham, Wash.

DENVER, Colo.—See "Waterworks," this issue. Bids wanted by U. S. Reclamation Service for vertical turbine pump and motor.

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WASHINGTON, D. C.—Bids are being received by Bureau of Supplies & Accounts, Navy Department, Washington, D. C., to furnish and deliver miscellaneous supplies and equipment as noted in the following schedules, further information being available from the Navy Department Officer, 100 Harrison St., San Francisco:

Bids Open September 2
 Mare Island, 2 electric driven winches and 2 sets of spare parts, sch. 3938.
 San Diego, 36 tail wheel assemblies, sch. 3939.
 San Diego, 72 airplane tail wheels, sch. 3928.

Mare Island, 1 metal washing machine; 1 underdriven extractor; 1 drying tumbler; 1 laundry stationary tub, sch. 3940.

Mare Island, 200 portable fire extinguishers, sch. 3943.

Mare Island, 22 hydro-carbon gas indicators; Puget Sound, 21 do, sch. 3942.

Mare Island, 200 sets compasses and dividers, sch. 3948.

Western yards, china and glassware, officers' and crews' mess, sch. 3950.

Western yards, steel dishpans, frying pans and pie plates, sch. 3952.

Eastern and western yards, butcher cleavers, boning knives, cooks' knives, sabatier knives and butchers' steels, sch. 3953.

Bids Close Sept. 12

East coast, motor gasoline as required during the period Nov. 1, to April 30, sch. 3955.

East coast, domestic aviation gasoline as required during the period Nov. 1 to April 30, sch. 3954.

HAWTHORNE, Nevada—Until September 10, 11 A. M., under Specification No. 6156, bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., to construct an irrigation system at Naval Ammunition Depot, Hawthorne, Nevada. The work consists of a lawn sprinkler system and water supply mains, and includes earthwork, concrete, steel and iron work, and all piping, valves, fittings, sprinkler heads, and accessories necessary to install the sprinkling system. Plans and specifications may be obtained from the District Public Works Officer, Room 513, 100 Harrison Street, San Francisco, on deposit of a \$15 check or money order payable to the Chief of the Bureau of Yards and Docks.

STOCKTON, San Joaquin Co., Cal.—Until August 26, 3 P. M., under Circular Proposal No. 31-51, Specifications 2327, bids will be received by U. S. Engineer-Office, California Fruit Bldg., Sacramento, to clear brush and trees for certain areas along the west bank of the San Joaquin River bet. Lindley Home and mouth of Stockton Channel, a distance of two miles below Stockton. Specifications and further information obtainable from above.

STOCKTON, San Joaquin Co., Cal.—Until August 26, 3 P. M., under Circular Proposal No. 31-50, Specifications 2326, bids will be received by U. S. Engineer-Office, California Fruit Bldg., Sacramento, to clear brush and trees from a certain area along the west bank of the San Joaquin River (Cut-Off "C") between Lindley Home and Burns Cut-Off, a distance of about 3½ miles below Stockton. Specifications and further information obtainable from above.

SACRAMENTO, Cal.—Until August 28, 3 P. M., under Order No. 2333-1690, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver Rio Vista, Solano county, flat mild steel bars, as follows (bidder to state length of bars):

1 bar 1-in. by 4-in.
 2 bars ¼-in. by 1-in.
 2 bars ¾-in. by 1½-in.
 2 bars ¾-in. by 1½-in.
 2 bars ½-in. by 1½-in.
 2 bars ½-in. by 1½-in.
 20 bars ½-in. by 3½-in.
 Round mild steel bars,
 20 bars ¾-in.
 15 bars ¾-in.
 Oval mild steel bars,
 15 2½-in. by 5½-in.

SAN DIEGO, Cal.—M. H. Golden, California Bank Bldg., San Diego, at \$31,669 submitted low bid to Bureau of Yards and Docks, Navy Department, for alterations and additions to hangar at San Diego. Complete list of bids will be published shortly.

SAN FRANCISCO—Until August 28, 10 A. M., under Schedule No. 923-31-47, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver one electric check writer machine, 110 volt, alternating current; equal to Todd's Super Speed check writer. Further information obtainable from above.

MERCED, Merced Co., Calif.—Following bids received by Postoffice Department at Washington, D. C., to furnish Federal Government with site for proposed new postoffice:

J. H. Simonson and R. Shaffer, J and Main, \$30,000.
 Merced Irrigation Dist., 13th and K, \$31,000.

McNamara & Co., NE corner 18th and N, \$32,400; SW corner 19th and L, \$28,000; SE corner 19th and L, \$45,000.

E. R. Barcroft, SE corner 18th and O, \$36,250.

Paul D. McComb and Mary E. McComb, SE corner 19th and N, \$14,500.
 Fresno Consumers Ice Co., SE corner 17th and O, \$36,000.

STOCKTON, San Joaquin Co., Cal.—Following bids received by the Postoffice Department at Washington, D. C., to furnish Federal Government with a site on which to erect proposed new postoffice: C. E. Sandman, NE corner California and Washington Sts., \$106,500; P. H. Arnisburger, block in E Center St., \$30,000; Mary A. Murphy, NE corner Lindsay and El Dorado, \$60,000; and NW corner El Dorado and Miner, \$115,000; Curtis M. Robbins, block bounded by Lindsay, Hunter, Fremont and San Joaquin, \$245,000; block 86, \$335,000; block 97, \$225,000; Callahan-Robin Company, lot bounded by San Joaquin, Hunter and Washington Sts., \$171,000; Cook Realty Co., lot bounded by Channel, Aurora, Miner and Grant, \$235,150; lot bounded by Miner, Channel, Stanislaus, Fremont and San Joaquin, \$191,658; lot bounded by Oak, Hunter, Fremont and San Joaquin, \$221,000; lot bounded by Channel, Aurora and Miner, \$147,500; G. D. Naylor, El Dorado and Center Sts., \$175,000; Henryetta B. McKenzie and Era B. McKenzie, NE corner Center and Lindsay, \$40,000; Jones-Coates Co., block bounded by Grant, Market and Stanislaus, \$151,250.

HALLS AND SOCIETY BUILDINGS

Plans To Be Prepared.

CLUB BLDG. Cost \$2,000,000 or more
 SAN FRANCISCO. Location Withheld.
 Club Building.
 Owner—J. Ward Cohen promoting

company to finance, St. Francis Hotel.

Architect—Not Selected.

More details will be given in about one week. J. Ward Cohen is an organizer and builder and is at the St. Francis Hotel completing details.

Prospective Bidders.

GYMNASIUM Cost, \$35,000
 VALLEJO, Solano Co., Cal. York and Santa Clara Sts.

One-story rough brick, stucco or brick tile gymnasium (90x55-ft.)

Owner—Naval Y. M. C. A. (H. E. Cunningham, manager), Vallejo.
 Architect—Eng. Dept. of Owner, New York.

Supt. of Const.—W. A. Jones, Vallejo.
 Clinton Stephens Const. Co., Monadnock Bldg., San Francisco.

Sullivan & Sullivan, Oakland.
 Jas. Eitton, Vallejo.

J. F. Fuller, Vallejo.
 F. W. Weeks, Vallejo.

George Barencchi, Vallejo.
 Bids are to be opened August 25, 12 noon, and are being received on three propositions, i. e., rough brick, stucco, and brick tile. Plans obtainable from H. E. Cunningham, Mgr., Naval Y. M. C. A., Vallejo.

Plans Complete.

RECREATION BLDG. Cost, \$100,000
 EUREKA, Humboldt Co., Calif.

Two-story reinforced concrete recreational building (swimming pool) bowling alleys, etc.)

Owner—Interstate Recreation Corp., Ltd., J. B. Munjar, Phelan Bldg., San Francisco, president.

Architect—Joseph L. Stewart, Federal Reserve Bank Bldg., San Francisco.

Bids will be taken August 25th for a general contract.

Sub-Contracts Awarded.

ALTERATIONS COST, Approx. \$50,000
 SAN FRANCISCO. No. 1142 Van Ness Avenue.

Alterations to club.

Owner—Concordia Club (Harry Hilp, President).

Architect—Hyman & Appleton, 68 Post St., San Francisco.

Contractor—Barrett & Hilp, 918 Harrison St., San Francisco.

Mill Work—J. A. Hart, Jerrold and Napoleon Sts., San Francisco.

Glass—Tyre Bros., 666 Townsend St., San Francisco.

Structural Steel—Mortensen Constr. Co., 608 Indiana St., S. F.

Plumbing—Dowd & Welch, 3558 16th St., San Francisco.

Ventilating—Scott Co., 243 Minna St., San Francisco.

Electric Work—Victor Lemoge, 251 Natoma St., San Francisco.

Bids To Be Taken August 21.

ALTERATIONS Cost, \$—
 OAKLAND, Alameda Co., Cal. No. 732 Fourteenth St.

Alterations and additions to Jewish Community Center.

Owner—Jewish Federation, Premises

Architect—W. E. Schirmer, 700 21st St., Oakland.

Specifications Being Written.

CLUB Cost, \$2,000,000
 SAN FRANCISCO. Post and Mason Streets.

Twenty-six-story Class A club.
 Owner—Olympic Club, Premises.

Architects—John Bakewell, Arthur Brown, Jr., and John Bauer, associated, 251 Kearny St., San Francisco.

Specifications will be completed in about two or three weeks. Bids will not be asked before Oct. 1st.

Plans Being Completed.
MEMORIAL BLDG. Cost, \$60,000
LIVERMORE, Alameda Co., Cal. Fifth
and L. Streets.

One-story reinforced concrete Veterans' Memorial Building.
Owner—County of Alameda.
Architect—H. H. Meyers, Kohl Bldg.,
San Francisco.

Bids will be called for in about three weeks.

Contract Awarded.
RECREATION BLDG.

Cnt. Price, \$161,507
SANTA CRUZ, Santa Cruz Co., Cal.
Two-story reinforced concrete recreation building (swimming pool, howling alleys, etc.)

Owner—Interstate Recreation Corp., Ltd., J. B. Munier, Pelham Bldg., San Francisco, President.

Architect—Joseph L. Stewart, Federal Reserve Bank Bldg., San Francisco.

Contractor—Carl N. Swensen, 47 W. Santa Clara St., San Jose.

Building awarded on general contract basis.

Hamilton & Church, Santa Cruz, were the next low at \$162,400.

As previously reported, wrecking awarded to Dolan Bros. Wrecking Co., San Pablo Ave. and Ashby Street, Berkeley.

HOSPITALS

EUREKA, Humboldt Co., Cal.—Two bids received by county supervisors to furnish and install laundry equipment in new county hospital now being completed, have been taken under advisement until August 20. The bids were:

American Laundry Machinery Co., San Francisco, \$3,196.05 on Prop. 1, and \$7,103.25 on Prop. 2.

Troy Laundry Machinery Co., San Francisco, \$7,130.

Contract Awarded
DORMITORY Cost, \$125,000
LOS ANGELES, Cal. No. 630 S. St. Louis Street.

Three-story Class A reinforced concrete dormitory (36x229 ft.)

Owner—Santa Fe Hospital.

Architect—H. L. Gilman, Kerckhoff Bldg., Los Angeles.

Contractor—Lynch Constr. Co., 730 E. Gage Ave., Los Angeles.

Plans Prepared.
HOSPITAL Cost, \$85,000
EL MONTE, Los Angeles Co., Cal. Missouri Avenue

One-story frame and stucco hospital (42x112 feet).

Owner—Pacific Protective Society, Title Insurance Bldg., Los Angeles

Contractor—John J. Prauenfelder, Story Bldg., Los Angeles.

Work will be done by day's labor under supervision of architect.

Spanish tile roofing, oak and cement floors, linoleum, wood sash, metal trim, tiled bathrooms, metal toilet and shower partitions, silent call system, special plastering, kitchen and hospital equipment, metal ward cubicles, gas steam radiators, laundry equipment, refrigeration, roller screens, dumb waiter, incinerator, folding partitions, circulating hot water system.

Plans Being Completed.
REMODEL Cost, \$35,000
OAKLAND, Alameda Co., Cal. Highland Hospital Grounds.

Remodel entrance to hospital.

Owner—County of Alameda.

Architect—H. H. Meyers, Kohl Bldg., San Francisco.

Bids will be called for shortly.

Alterations to provide a new entrance for receiving and discharging

patients. Under the new arrangement the first floor of the "A" building will be used as a receiving ward and a corridor will connect the present receiving ward with the new one.

Sub-Contracts Awarded.
HOSPITAL Cost, \$100,000
CRUCIFIED CITY, Del Norte Co., Cal.

Ocean Shore Drive at Battery H.

Two-story 20-bed reinforced concrete class C hospital building, (70x150 feet).

Owner—G. O. Knapp, Crescent City.

Architect—Martin Sheldon, 950 Montadnock Bldg., San Francisco.

Consulting Architect—Carleton Winslow.

Contractor—Mercer—Fraser Co., Eureka.

Mill Work—Hammond Lbr. Co., Eureka.

Painting—Joseph J. Burdon and Son, Richmond.

Reinforcing Steel—Gunn, Carle & Co., Inc., 44 Market St., San Francisco.

Plastering—M. E. Cookson, Eureka.

Sheet Metal—Morrison & Company, 74 Duboce Ave., San Francisco.

Wall Tile—Rigney Tile Co., 3012 Harrison St., Oakland.

Miscellaneous Iron—Michel & Pfeffer, Harrison and 10th Sts., San Francisco.

Plumbing and Heating—Miller—Hays Co., Stockton.

Framing Lumber—Hobbs-Wall & Co., Crescent City.

The X-ray equipment contract has been awarded to the Bush Electric Corp., 909 Hyde St., San Francisco.

Plans Being Completed.
ADDITIONS Cost, \$160,000
SAN FRANCISCO, Potrero Ave. bet. 20th and 23rd Sts. (San Francisco Hospital).

Class A additions on roof of four ward buildings (brick walls, tile roof).

Owner—City and County of San Francisco.

Architect—Alfred I. Coffey and Martin J. Rist, associated, Pelham Bldg.

Plans will be ready for bids in 30 days.

HOTELS

Plans Being Figured—Bids Close August 30.

BARRACKS Cost, \$40,000
MONTEREY, Monterey Co., Cal.

Two two and three-story reinforced concrete barracks (for hotel help)

Owner—Hotel Del Monte.

Architect—Wm. Raiguel, Del Monte.

Bids are being taken for a general contract. Heating system will be connected with hotel's central heating plant. Ten year guaranteed roof.

Bids Opened.
HOTEL Cost, \$100,000
BLUE LAKE, Lake Co., Calif. 250-acre tract.

Three-story frame and stucco hotel (22x126 ft.)

Owner—Blue Lake Hotel and Resort Corp., Harry W. Kemp, president.

Architect—Chas. Strothoff, 2274 15th St., San Francisco.

Will contain 48 rooms, all of which will have private baths. Seam heating, glass enclosed porches. Basement will provide dressing rooms for bathers, a barber shop and 5 store rooms.

Following is a complete list of bids:

C. W. Gibson, Ukiah..... \$ 90,495

Young & Horstmeier, S. F..... 91,247

K. E. Parker, San Francisco..... 91,532

J. S. Sampson, San Francisco..... 92,000

Sorensen & Hagemark, S. F..... 92,240

F. L. Stoneson, San Francisco..... 92,930

G. Magnusson, San Bruno..... 92,940

Barrett & Hilt, San Francisco..... 93,747

Chas. D. Vezey & Son, Oakland..... 95,975

Lehert & Trobeck, S. F..... 135,295

Bids referred to owner for award.

Contract Awarded
HOTEL Cost, \$115,000
BENO, Washoe Co., Nevada See 1

and Chestnut Sts.

Six-story brick hotel (65 rooms and 11 baths and 2 stores).

Owner—Abe Zetoney.

Architect—George Ferris & Son, (Badianos Bldg., Reno, Nevada).

Contractor—K. E. Parker, 135 South Park, San Francisco.

Sub-bids are in and will be awarded within the next few days.

To Be Done By Day's Work By Owner
RENOVATION Cost, \$—
SAN FRANCISCO, 17 Powell Street (Turpin Hotel).

Interior renovation to hotel (painting, plastering, plumbing, etc.)

Owner—Bank of Italy.

Architect—H. A. Minton, Bank of Italy Bldg.

ICE AND COLD STORAGE PLANTS

Plans Being Prepared.
ICE PLANT Cost, \$—
SANTA CRUZ, Santa Cruz Co., Cal.

Ice manufacturing and cold storage plant.

Owner—Coast Ice & Storage Co. (E. E. Huddleson, president), Santa Cruz.

Architect—Withheld.

Contractor—Selected, Name Withheld.

More definite information will be given in a few days.

Plans Being Prepared.
ICE PLANT Cost, \$—
MONTEREY, Monterey Co., Cal.

Ice manufacturing and cold storage plant.

Owner—Coast Ice & Storage Co. (E. E. Huddleson, president), Santa Cruz.

Architect—Withheld.

Contractor—Selected, Name Withheld.

More definite information will be given in a few days.

Construction Under Way.
COLD STORAGE PLANT \$40,000
PETALUMA, Sonoma Co., Cal.

One-story brick ice and cold storage plant (40-ton capacity).

Owner—Petaluma Ice & Cold Storage Co., Petaluma.

Plans by Gay Engineering Co.

Contractor—Gay Engineering Co., 2650 Santa Fe St., Los Angeles.

POWER PLANTS

PASADENA, Cal.—Until September 2, 11 A. M. bids will be received by city directors to furnish and install boilers for municipal power plant in accordance with revised specifications on file in the office of B. F. DeLanty, Superintendent, 301 City Hall. Previous award to Consolidated Steel Corp. was rescinded.

SAN FRANCISCO—Until September 2, 11 A. M. bids will be received by Constructing Quartermaster, Fort Mason, to install new control panel board and repair motors in Laundry Building No. 24 at the Letterman General Hospital. Specifications and further information obtainable from above.

Bids To Be Taken Sept. 25.
POWER HOUSE Cost, \$30,000
MUNDESTO, Stanislaus Co., Cal. Stanislaus County Hospital.

Two-story reinforced concrete and hollow the power house (unit 3).

Owner—County of Stanislaus

Architect—Russell Guerne De Lappe, 1710 Franklin St., Oakland.

Three weeks will be allowed for figuring the plans.

OAKLAND, Cal.—General Electric Co., Russ Bldg., San Francisco, at \$8,424.21 submitted only bid to East Bay Municipal Utility District to furnish spare parts for Pardee Power Plant. Taken under advisement.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

Plans Being Figured—Bids Close Aug. 27, 8 P. M.

CITY HALL Cost, \$—
HAYWARD, Alameda Co., Cal.
Completion of three-story reinforced concrete city hall.

Owner—City of Hayward.
Architect—E. P. Whitman, Hayward.
The contract for this structure, embracing the ground floor and two stories, are now being completed under contract with Fred J. Westlund, 625 40th St., Oakland, who was awarded the work on a bid of \$65,840. The city council has approximately \$37,000 on hand to complete the structure. It will contain offices for the police department, city attorney, city clerk, city engineer, supt. of streets and tax collector, water department, health center and recorder or police judge, besides a city jail and a city council meeting room. Certified check 10%, payable to city required with bid. Plans on file in office of clerk and obtainable from the architect.

SAN FRANCISCO—Board of Supervisors authorizes proposal to be placed on the November ballot providing for the issuance of \$550,000 in bonds to finance erection of a new county jail building. The structure will probably be erected in San Mateo County.

OAKLAND, Alameda Co., Cal.—C. J. Hillard Co., 19th and Minnesota Sts., San Francisco, at \$940 awarded contract by city clerk to furnish and install steel shelving, counters and cabinets for Municipal Garage.

RESIDENCES

Title Bids Wanted.
RESIDENCE Cost, \$30,000
OAKLAND, Alameda Co., Cal. Claremont Pines.

Two-story brick veneer residence (12 rooms).

Owner and Builder—J. M. Walker, 1709 Grove St., Berkeley.

Plans by Owner.
As previously reported, slate roofing awarded to M. H. Wisely, 2911 Adeline St., Berkeley; plastering to Hoffman & Moore.

Sub-Bids Being Taken.
RESIDENCE Cost, \$25,000
BERKELEY, Alameda Co., Cal. Claremont Pines.

Two-story frame and stucco residence and garage (9 rooms)

Owner—Withheld.
Architect—Masten & Hurd, Shreve Bldg., San Francisco.
Contractor—A. H. Feasey, 210 Clara San Francisco

Heating system will be hot air, gas or oil.

Plans Being Completed.
RESIDENCE Cost, \$16,000
SAN FRANCISCO. Monterey Blvd.

Two-story and basement frame and stucco residence (12 rooms and 3 baths; tile roof, tile finish, oil burners).

Owner and Builder—G. W. Stanley, 467 Turk St.

Plans by D. E. Jaekle, Call Bldg.
Sub-bids will be taken about August 22nd.

Contract Awarded.
RESIDENCE Cost, \$6000
BERKELEY, Alameda Co., Cal. 2810 Webster St.

One-story and basement frame and stucco residence (5 rooms).

Owner—J. H. Whalen, 324 Warwick, Oakland.

Architect—None.
Contractor—B. M. Williamson, 3721 Alameda Ave., Oakland.

Plans Being Completed.
RESIDENCE Cost, \$20,000
STOCKTON, San Joaquin Co., Cal. Oxford Manor.

Two-story and basement frame and stucco residence (10 rooms).

Owner—Arthur M. Noble, 945 N. El Dorado St., Stockton.

Architect—Ralph Morrell, Union Bldg., Stockton.

Bids will be taken about October 1.

Plans Completed.
RESIDENCE Cost, \$20,000
MORAGA, Contra Costa Co., Cal.

Two-story frame and stucco residence
Owner—Withheld.

Architect—Guy L. Brown, American Bank Bldg., Oakland.

More definite information will be given shortly.

Plans Completed.
RESIDENCES Cost, \$6000 and \$7000
WILLOW GLEN, Santa Clara Co., Cal.

Twenty-seven 1-story and basement frame and stucco residences (4-5- and 6-rooms).

Owner and Builder—T. H. Herschback
Twohy Bldg., San Jose.

Architect—Charles McKenzie, Twohy Bldg., San Jose.

Construction will be started on six immediately.

Plans Complete.
RESIDENCE Cost, \$9000
PALO ALTO, Santa Clara Co., Calif. Crescent Park.

One- and one-half story frame and stucco residence (7 rooms, 2 baths)

Owner—Henry Schwartz.
Plans by Grimes & Schoening, Balovich Bldg., San Mateo.

Bids will be taken about Sept. 1.

Contract Awarded.
RESIDENCE Cost, \$20,000
BERKELEY, Alameda Co., Cal. 986 Euclid Ave.

Two-story frame and stucco residence (8 rooms).

Owner—Alvin C. Richards, 1865 San Pedro Ave., Berkeley.

Architect—E. L. Snyder, 2101 Addison St., Berkeley.

Contractor—H. K. Schultz, 811 Mendocino Ave., Berkeley.

Plans Being Figured.
RESIDENCE Cost, \$15,000
BERKELEY, Alameda Co., Cal. Park View.

Two-story frame and stucco residence (11 rooms).

Owner—H. W. Bernheim, 266 Wildwood Ave., Berkeley.

Architect—E. L. Snyder, 2101 Addison St., Berkeley.

Plans Being Figured.
RESIDENCE Cost, \$10,000
ORINDA, Contra Costa Co., Cal.

One-story frame and stucco residence (8 rooms).

Owner—Prof. Hall, University of California, Berkeley.

Architect—William Rich, Orinda.

Plans Being Completed.
RESIDENCE Cost, \$—
SAN FRANCISCO. Jackson St. near Steiner St.

Two-story and basement frame and stucco residence.

Owner—F. D. Zelinsky, 165 Grove St.
Architect—Hyman & Appleton, 68 Post Street.

IONE, Amador Co., Cal.—See "Factories and Warehouses," this issue.
Bids wanted by State Department of Public Works to erect shop building and superintendent's cottage at Presidio State School of Industry.

Plans Being Completed.
RESIDENCE Cost, \$17,000
HILLSBOROUGH, San Mateo Co.

Two-story and basement frame and stucco residence (9 rooms).

Owner—Boris Kitchen, Hillsborough Drive, Hillsborough.

Architect—Gardner Dalley, 425 Mason St., San Francisco.

Bids will be taken next week.

Low Bidder
RESIDENCE Cost, \$18,000
SAN RAFAEL, Marin Co., Cal.

Two-story and basement frame and stucco residence (9 rooms, 2 baths)

Owner—Harry Albert, 4th and B Sts., San Rafael.

Architect—S. Heiman, 57 Post Street, San Francisco.

Low Bidder—M. H. Vanderbilt, 115 H. St., San Rafael.

Contract Awarded.
RESIDENCE Cost, \$10,000
SACRAMENTO, Sacramento Co., Cal.

410-12 Santa Ynez Way.
One-story frame and stucco residence

Owner—John Simmons, 2521 51st St., Sacramento.

Architect—None.
Contractor—John Simmons, 2521 51st St., Sacramento.

Sub-Contracts Awarded.
REMODEL Cost, \$—
SAN FRANCISCO No. 3212 Jackson Street.

Remodel present two-story frame and stucco residence.

Owner—Harry Hilp, Premises.
Architect—Willis Folk Co., 277 Pine St., San Francisco.

Contractor—Barrett & Hilp, 918 Harrison St., San Francisco.

Electrical Work—Victor Lemoge, 281 Natoma St., San Francisco.

Plumbing & Heating—Dowd & Welch 3558 16th St., San Francisco.

Mill Work—J. A. Hart, Jerrold and Napoleon Sts., San Francisco.

Roofing—Alta Roofing Co., 976 Indiana St., San Francisco.

Structural Steel—Dyer Bros., 17th and Kansas Sts., San Francisco.

Glass—Central Hardware & Glass Co., 638 Fourth St., San Francisco.

Sheet Metal—Morrison & Co., 74 DuBoce Ave., San Francisco.

Bids To Be Taken August 18.
RESIDENCE Cost, \$15,000
BERKELEY, Alameda Co., Cal. Park View.

Two-story frame and stucco residence (11 rooms).

Owner—H. W. Bernheim, 266 Wildwood Ave., Berkeley.

Architect—E. L. Snyder, 2101 Addison St., Berkeley.

Contract Awarded.
RESIDENCE Cost, \$10,000
SAN MATEO, San Mateo Co., Cal.

One-story and basement frame and stucco residence.

Owner—J. L. De Venelli, 134 Elm St., San Mateo.

Architect—None.
Contractor—E. W. Howard, % Owner

Permit Applied For.
RESIDENCE Cost, \$15,000
OAKLAND, Alameda Co., Cal. NE Oak Knoll and Sequoia Sts.

Two-story and basement frame and stucco residence (9 rooms).

Owner—J. A. Minnes, P. O. Box 804, Oakland.
Architect—None.

August 15, 1930

Plans Completed.
COTTAGE Cost, \$6000
BOHEMIAN GROVE, Sonoma County, Calif.
One-story frame and redwood shakes cottage (7 rooms).
Owner—Supt. of Bohemian Grove.
Architect—Ben G. McDougall, 353 Sacramento St., San Francisco.
Construction will start next week by owners.

Sub-Contracts Awarded.
RESIDENCE Cost, \$15,000
SAN MATEO PARK, San Mateo Co.
Two-story and basement frame and stucco residence (8 rooms, 3 baths)
Owner and Builder—Allan McIntyre, 446 Highland Ave., San Mateo.
Architect—Grimes & Schoening, Balovich Bldg., San Mateo.
Concrete Work—San Mateo Constr. Co., 126 S-Humboldt St., San Mateo.

Plumbing—J. B. Reynard, Second Av., San Mateo.
Rough Lumber—Wisnom Lumber Co., San Mateo.
Mill Work—San Mateo Planing Mill, San Mateo.

Steel Sash—Detroit Steel Products Co., Hunter-Dulin Bldg., S. F.
Sub-bids are wanted on brick laying, plastering, tiling, glazing, wiring, painting, sheet metal, roofing tile and ornamental iron.

Contract Awarded.
RESIDENCE Cost, \$—
LAKE ARROWHEAD, Los Angeles Co., Cal.
Reinforced concrete and stone residence (20 rooms, 7 baths).
Owner—Mrs. John J. Iten, 664 S. Harvard Blvd., Los Angeles.
Architect—Wm. Lee Woollett, Architects Bldg., Los Angeles.
Contractor—J. S. Abel, 335 S. Hoover St., Los Angeles.

Contract Awarded
RESIDENCE Cost, \$6000
SAN FRANCISCO, E Sixteenth Ave. S Vicente St.
One-story and basement frame and stucco residence.
Owner—W. G. Ryberg, 2233 22nd Ave. San Francisco.
Architect—Chas. F. Strothoff, 2274 15th St., San Francisco.
Contractor—E. J. Elkington & Sons, 330 Vicente St., San Francisco.

Construction To Start At Once.
BUNGALOWS Cost, \$200,000
(total expenditure)
SANTA ROSA, Sonoma Co., Cal. Proctor Terrace.
Twenty one-story frame and plaster bungalows.
Owner—Mutual Home Builders' Assn., A. C. Crosby, president, 644 4th St. Santa Rosa.
Plans by Owners.

Contract Awarded.
RESIDENCE Cost, \$11,000
REDWOOD CITY, San Mateo Co., Cal. 815 Arlington Avenue.
Two-story frame and stucco residence (8 rooms, 3 baths).
Owner—L. D. Northcut, 867 38th Ave., Redwood City.
Architect—None.
Contractor—T. D. Northcut, 867 38th Ave., Redwood City.

Work Started.
LANDSCAPING Cost, \$40,000
HILLSBOROUGH, San Mateo County, Calif.
Landscape work (greenhouses, etc.).
Owner—E. E. Hills, 2 Harrison Street, San Francisco.
Landscape Architect—Howard Gilkey, Howden Bldg., Oakland.

SCHOOLS

HOLLISTER, San Benito Co., Cal.
—Frank Donnelly, Hollister, at \$225 awarded contract by Hollister School District to paint Fremont School exterior. Five other bids ranged as high at \$1968.
(2638) 1st report Aug. 6, 1930. 15

Bids Opened.
GYMNASIUM Cost, \$—
SAN JOSE, Santa Clara Co., Cal.
State Teachers' College Grounds.
Reinforced concrete men's gymnasium
Owner—State of California.
Architect—State Department of Public Works, Division of Architecture, Public Works Bldg., Sacramento.

Following is a complete list of bids received, with alternates:
Alt. No. 1, deduct for omitting maple flooring.

Alt. No. 2, deduct for omitting exterior plaster and brick veneer.
Alt. No. 3, deduct for omitting tile roof.

Alt. No. 4, deduct for omitting tile and marble.

Alt. No. 5, deduct for omitting painting.

H. L. Petersen, 731 Treat Ave., San Francisco, \$114,836; (2) \$4180; (3) \$3950; (4) \$5100; (5) \$3200.

H. Mayson, Long Beach, \$119,923; (1) \$2300; (2) \$4000; (3) \$4200; (4) \$5269; (5) \$2660.

The Minton Co., Mt. View, \$120,293; (1) \$2096; (2) \$4715; (3) \$4289; (4) \$5350; (5) \$2568.

A. Frederick Anderson, Oakland, \$121,928; (1) \$2198; (2) \$3881; (3) \$4608; (5) \$5075; (5) \$2400.

E. T. Lesure, Berkeley, \$123,668; (1) \$1650; (2) \$4450; (3) \$3600; (4) \$5600; (5) \$700.

Mission Concrete Co., San Francisco, \$123,998; (1) \$2595; (2) \$4663; (3) \$4600; (4) \$5200; (5) \$2855.

J. S. Hannah, San Francisco, \$124,200; (1) \$1980; (2) \$5468; (3) \$5097; (4) \$5200; (5) \$1300.

J. F. Shepherd, Stockton, \$124,328; (1) \$2587; (2) \$1698; (3) \$4000; (4) \$5099; (5) \$3000.

Schuler & MacDonald, Oakland, \$124,595; (1) \$2200; (2) \$2950; (3) \$4000; (4) \$5000; (5) \$2300.

N. H. Sjöberg & Son, San Francisco, \$125,825; (1) \$2084; (2) \$4027; (3) \$4000; (4) \$5200; (5) \$2400.

Carl N. Swensen, San Jose, \$126,657; (1) \$2500; (2) \$1674; (3) \$4000; (4) \$5950; (5) \$2400.

Spivock & Spivock, San Francisco, \$127,300; (1) \$1800; (2) \$4300; (3) \$4000; (4) \$5200; (5) \$2400.

R. J. Chute Co., Los Angeles, \$128,088; (1) \$2100; (2) \$4300; (3) \$4000; (4) \$5000; (5) \$2500.

J. W. Colby & Son, San Francisco, \$128,697; (1) \$1800; (2) \$4000; (3) \$3850; (4) \$5000; (5) \$2200.

Alfred Vezina, Oakland, \$129,165; (1) \$2384; (2) \$3858; (3) \$3903; (4) \$5000; (5) \$2400.

J. J. Groden & Co., Alameda, \$129,365; (1) \$1900; (2) \$3850; (3) \$2900; (4) \$5125; (5) \$2050.

Dinwiddie Constr. Co., San Francisco, \$129,900; (1) \$1967; (2) \$4381; (3) \$4000; (4) \$5200; (5) \$2400.

F. A. Amaroso & Son, San Francisco, \$131,900; (1) \$4000; (2) \$4500; (3) \$4500; (4) \$5200; (5) \$2400.

F. L. Hansen, San Francisco, \$136,350; (1) \$2400; (2) \$5800; (3) \$4500; (4) \$5200; (5) \$3500.

Vogt & Davidson, San Francisco, \$154,627; (1) \$2650; (2) \$6000; (3) \$5000; (4) \$5000; (5) \$2300.

Heating, Plumbing and Ventilating

Alt. No. 1, deduct for omitting plumbing fixtures.
Alt. No. 2, deduct for omitting heating fixtures.
Hately & Hately, 1711 14th St., Sacramento, \$26,488; (1) \$4100; (2) \$6100.

F. W. Snook, San Francisco, \$27,092; (1) \$298; (2) \$5970.

George A. Shuster, Oakland, \$27,744; (1) \$4978; (2) \$6822.

Scott Co., San Francisco, \$27,977; (1) \$6514; (2) \$4123.

Carl T. Donnell, Oakland, \$28,944; (1) \$5814; (2) \$6982.

Electrical Work
Alt. No. 1, deduct for omitting all fixtures.
Gilbert Bros., 26 W-Santa Clara St., San Jose, \$7403; (1) \$4366.

Loy M. Butcher, San Jose, \$7543; (1) \$5166.

Apex Electric Co., San Francisco, \$7884; (1) \$3680.

H. S. Tittle, San Francisco, \$8200; (1) \$5793.

George Wolfe, Oakland, \$8200; (1) \$5525.

Coast Service Electric Co., San Jose, \$8350; (1) \$5200.

Mechanical Equipment (Electric, Plumbing, Heating & Ventilating)
Latourette-Fical Co., 907 Front St., Sacramento, \$35,772. Alt. 1, deduct for omitting electric fixtures, \$4600; Alt. 2, deduct for omitting plumbing fixtures, \$5500; Alt. 3, deduct for omitting heating fixtures, \$4750.

Bids held under advisement.

Contracts Awarded.
HEATING PLANT Cost, \$—
FRENCH CAMP, San Joaquin Co., Calif.

Brick boiler building and steam heating plant and oil burning equipment for same.

Owner—French Camp School District.
J. B. Deaton, clerk, French Camp.
Architect—Victor Gailbraith, 208 Elks' Bldg., Stockton.

As previously reported brick boiler building awarded to J. R. Leighton, 813 Bedford Road, Stockton, at \$500; steam heating plant and oil burner to W. T. Gibson, 123 S Grant St., Stockton, at \$3123.

Contract Awarded.
KITCHEN Cost, \$—
WHITTIER, Los Angeles Co., Cal.
Kitchen and Commissary Building at Whittier State School.
Owner—State of California.

Architect—State Department of Public Works, Division of Architecture, Public Works Bldg., Sacramento.

The structure will be one-story and part basement, of concrete, brick and frame construction, with interior partitions of hollow tile, wood roof construction and tile floor. Total floor area of 12,500 square feet.

General Work
Adolph G. Schmid, San Ana, \$53,200.

Electrical Work
R. R. Jones Electric Co., L. A. \$1,525.

Heating and Ventilating
S. B. Jones, Pasadena, \$8,178.

Four Low Bidders.
COST \$15,000
EMERYVILLE, Alameda Co., Cal. 6181 St. and Doyle Ave.

One-story brick elementary school (4 rooms).
Owner—Emeryville School District.
Plans by S. Arnold, High Sch. Bldg., Emeryville.

Following are the four lowest bids:
Gaubert Bros., 425 Broadway, Oakland, \$21,487.

A. Station, Oakland, \$21,487.

W. Swanstrom, Oakland, \$21,487.

J. B. Bishop, Oakland, \$21,487.

Nineteen bids were submitted. Complete list of bids will be published tomorrow.

Plans Being Figured—Bids Close Sept. 2, 12 Noon.
ADDITION Cost, \$9000
MARYSVILLE, Yuba Co., Cal.
 Addition to school.
 Owner—Linda School District, M. S. Mitrovich, clerk.
 Architect—Helen E. Findlay, Marysville.
 Certified check or bidder's bond for 5% required with bid. Plans on file in office of Agnes Weber Meade, county superintendent of schools at Marysville.

Plans Being Figured—Bids Close Sept. 3, 3 P. M.
SCHOOL WORK Cost, \$—
MILPITAS, Santa Clara Co., Cal.
 One classroom, store room, cloak room and renovation and painting of grammar school.
 Owner—Milpitas School District, Jos. A. Spangler, clerk.
 Architect—Not Given.
 Certified check 10% payable to Board of Trustees of district required with bid. Plans obtainable from clerk at Box 152, Milpitas.

Complete Bid Listing.
SCHOOL Cost, \$15,000
EMERYVILLE, Alameda Co., Cal. 61st St. and Doyle Ave.
 One-story brick elementary school (4 rooms).
 Owner—Emeryville School District.
 Plans by S. Arnold, High School, Emeryville.
 Following is a complete list of bids:
 Gaubert Bros., 4735 Brookdale Ave., Oakland \$21,330
 A. Staton, Oakland 21,485
 Geo. Swanstrom, Oakland 22,190
 J. B. Bishop, Oakland 22,194
 J. J. Groden & Co., Alameda 22,455
 Geo. A. Scott, Oakland 22,777
 Victor De Vight, Berkeley 22,845
 E. Icardi, San Francisco 22,885
 Mutual Const. Co. 22,888
 Emil Person, Oakland 23,369
 George Prentice, Oakland 23,990
 E. T. Leifer & Son, Oakland 24,667
 J. E. Branch, Oakland 24,888
 C. Thrams, Oakland 25,057
 F. J. Westlund, Oakland 25,325
 C. Roth 25,997
 E. T. Lesure, Berkeley 25,198
 N. H. Sjoberg, San Francisco 25,223
 Cicero & Malley, Oakland 25,586
 Bids held under advisement.

Being Done By Day's Work.
ALTERATIONS Cost, \$—
GILROY, Santa Clara Co., Cal. West section of city.
 Alterations and additions to grammar school.
 Owner—Gilroy School District.
 Architect—W. H. Weeks, 111 Sutter St., San Francisco, and Bank of Italy Bldg., San Jose.
 All bids previously received were rejected and work is being carried on by owner on day's work basis.

Sub-Contracts Awarded.
SCHOOL BLDGS. Cost, \$12,427
McFARLAND, Kern Co., Cal.
 First unit of primary building and improvement to present building.
 Owner—McFarland Union Grammar School District, H. J. Hendry, Clerk.
 Architect—Edwin J. Symmes, Habersfelde Bldg., Bakersfield.
 Contractor—R. E. Lewis, Corcoran.
 Plumbing and Heating—R. E. Roundsville, Tulare.
 Plastering—A. Hodsal, Tulare.
 Painting—R. V. Swift, Tulare.
 Roofing—O. H. Willoughby, Tulare.
 Tie—Wilfred Maxwell, Selma.
 Iron—Kyle & Co., Fresno.
 Wiring—B. J. Bishop, Corcoran.

CHICO, Butte Co., Cal.—Bush Roofing Co., Chico, at \$378 awarded contract by Board of Education to place new roofing on Bird Street School.

Plans Being Completed.
SCHOOL Cost, \$15,000
JAMESTOWN, Tuolumne Co., Cal.
 One-story class C concrete grammar school (3 classrooms).
 Owner—Jamestown Grammar School District.
 Architect—Davis-Pearce Co., Grant & Weber Sts., Stockton.
 Bids will be taken in two weeks.

Bids Opened.
GYMNASIUM Cost, \$50,000
BERKELEY, Alameda Co., Cal. Addison and Curtis Sts.
 Burbank Junior High School Gymnasium (structural steel, brick and hollow tile construction).
 Owner—Berkeley School District.
 Architect—Hardman & Russ, Berkeley Bank Bldg., Berkeley.
 Following is a complete list of bids:
 Chas. Vezey and Son, 3220 Sacramento St., Oakland, \$52,370; Alt. No. 1, \$2,100.
 Walter Sorensen, Oakland, \$54,498; \$2,332.
 David Nordstrom, Oakland, \$54,789; \$2,200.
 F. J. Westlund, Oakland, \$54,840; \$1,700.
 J. J. Groden & Con., Alameda, \$54,900; \$1,500.
 Connor & Connor, Oakland, \$55,000; \$1,440.
 N. H. Sjoberg & Son, Oakland, \$55,341; \$1,990.
 E. B. Bishop, Oakland, \$55,731; \$2,174.
 G. P. W. Jensen, San Francisco, \$56,970; \$2,900.
 George Swanstrom, Oakland, \$57,365; \$2,128.
 E. T. Lesure, Oakland, \$58,945; \$1,785.
 W. W. Hayes, San Francisco, \$60,423; \$2,626.
 Alternate No. 1 add for changing first floor from frame to concrete.
 Bids taken under advisement.

Contract Awarded.
ADDITIONS Cost, \$—
BERKELEY, Alameda Co., Cal.
 Classroom and additions to Longfellow School (class C construction, brick wood and steel joists in auditorium).
 Owner—Berkeley School District.
 Architect—James W. Placheik, Mercantile Bank Bldg., Berkeley.
 Contractor—Chas. D. Vezey & Son, 3229 Sacramento St., Oakland.
 The contract was awarded on the original bid of \$123,385 with the following alternates: (1) \$20,300 deduct for omitting four classrooms in East wing; (2) \$1,800 add if floors are changed from maple to pine; (3) \$1,100 add for using slate blackboards in place of composition; (4) \$300 deduct for using plaster back of blackboards; (5) \$318 deduct for omitting portions of heating.

Sub-Contracts Awarded.
SCHOOL Cost, \$30,000
 One-story frame and stucco school (7 classrooms and assembly hall; Laurel School).
 Owner—Santa Cruz School District.
 Architect—W. H. Weeks, Hunter-Du-lin Bldg., San Francisco; 1736 Franklin St., Oakland, and Bank of Italy Bldg., San Jose.
 Contractor—The Minton Co., Palo Alto and Mt. View.
 Glass and Glazing—W. P. Fuller & Co., 601 Mission St., San Francisco
 Redwood Lumber—Monterey Bay Redwood Co., Santa Cruz.
 Roofing—W. J. Porter, Box 251, San Jose.

Miscellaneous and Ornamental Iron—Hellwig Iron Works, 407 Vine St., San Jose.
 Painting—Mortensen Bros., 124 N. Ninth St., San Jose.
 Finish Hardware—Bryon Bros., 46 Pacific Ave., Santa Cruz.
 Weisteil Partitions—Dwan & Co. 532 Sixth St., San Francisco.
 Window Fixtures—Universal Window Co., 1916 Broadway, Oakland.
 Reinforcing Steel—W. C. Hauck Co., 230 San Bruno Ave., San Francisco.

Preparing Working Drawings.
SCHOOL Cost, \$15,000
JAMESTOWN, Tuolumne Co., Cal.
 One-story class C concrete grammar school (3 classrooms).
 Owner—Jamestown Grammar School District.
 Architect—Davis-Pearce Co., Grant & Weber Sts., Stockton.
 Bids will be taken Sept. 1st.

Bids To Be Taken About Sept. 1st.
BUILDINGS Cost, \$685,000
BERKELEY, Alameda Co., Cal. University of California Campus.
 Group of class B buildings (College of Engineering).
 Owner—University of California.
 Architect—George W. Kelham, 315 Montgomery St., San Francisco.
 Engineer—H. J. Brunner, Sharon Bldg., San Francisco.
 Group consists of 4-story class B main building (40,000 sq. ft.); 2-story Hesse Hall (8000 sq. ft.), and 1-2- and 3-story laboratory (30,000 sq. ft.).

ORNAMENTAL WIRE AND IRON WORK

IRON
WIRE

Fence and Gates

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Prospective Bidders.
GYMNASIUM Cost, \$50,000
BERKELEY, Alameda Co., Cal. Ad-
 dison and Curtis Sts.

Burbank Junior High School Gym-
 nasium (structural steel, brick
 and hollow tile construction).
 Owner—Berkeley School District.
 Architect—Herdman & Russ, Berkeley
 Bank Bldg., Berkeley.

Following is a list of the contrac-
 tors who have secured plans:
 W. W. Hays, Call Bldg., San Fran-
 cisco.
 C. Dudley De Velbiss, 354 Hobart
 St., Oakland.

Walter Sorensen.
 J. J. Grodum & Co.
 N. H. Sjoberg & Son.

E. T. Lesure, 87 Ross Circle, Oak-
 land.
 Gauhert Bros., 4735 Brookdale Ave.,
 Oakland.

Chas. D. Vezey & Son, 3220 Sacra-
 mento St., Oakland.
 S. J. Bertelson, 30 Estrella, Pied-
 mont.

Fred J. Westlund, 3541 Hobart St.,
 Oakland.
 Emil Person, 829 San Luis Road,
 Berkeley.

Sullivan & Sullivan, 3653 Best Ave.,
 Oakland.
 J. M. Bartlett, 354 Hobart St., Oak-
 land.

David Nordstrom, 254 Hobart St.,
 Oakland.
 E. T. Leiter & Son, 811 37th St.,
 Oakland.

J. B. Bishop, 587 Athol Ave., Oak-
 land.
 George Swanstrom, 1723 Webster
 St., Oakland.

Chas. H. McCullough, 1634 Berkeley
 St., Berkeley.
 Conner & Conner, 1726 Grove St.,
 Berkeley.

G. P. W. Jensen, 320 Market St.,
 San Francisco.
 Bids are to be opened August 18,
 8 P. M.

Sub-Contracts Awarded.
DORMITORY Cont. price, \$37,600
BELMONT, San Mateo Co., Cal.
 Two-story reinforced concrete dor-
 mitory and classroom building.

Owner—College of Notre Dame, Bel-
 mont.
 Architect—John J. Donovan, Tapscott
 Bldg., Oakland.

Contractor—H. H. MacDonald, 1020
 Rosewood, Belmont.
 Excavating—C. Jorden, Belmont.

Sheet Metal—Goffman Sheet Metal
 Works, San Mateo.
 Tile—Malott & Peterson, San Fran-
 cisco.

Electrical Work—Atlas Elec. Co., San
 Mateo.
 Plumbing and Heating—O'Mara and
 Stewart, 218 Clara St., San Fran-
 cisco.

Roofing—Union Roofing Co., Redwood
 City.
 Plastering—E. J. Cooksey, San Mateo.

Reinforcing Steel—Concrete Engineer-
 ing Co., 1280 Indiana St., San
 Francisco.

Glass—W. P. Fuller Co., 301 Mission
 St., San Francisco.
 Sand, Gravel and Cement—San Car-
 los Feed & Fuel Co., San Carlos.

Structural Steel—Moore Dry Dock Co.,
 Balfour Bldg., San Francisco.

Plans Being Figured—Bids Close
 September 2nd.
SCHOOL Cost, \$20,000

WESTLEY, Stanislaus Co., Cal.
 One-story Class C brick or concrete
 elementary school (4 classrooms;
 Spanish type).

Owner—Grayson School District.
 Architect—Davis-Pearce Co., Grant
 and Weber Sts., Stockton.

Additional Prospective Bidders.
SCHOOL Cost, \$15,000

EMERYVILLE, Alameda Co., Cal.
 Sixty-first St. and Doyle Ave.
 One-story brick elementary school (4
 rooms).

Owner—Emeryville School District.
 Plans by S. Arnold, High School, Em-
 erville.
 Victor De Vlight, 1828 Milvia St.,
 Berkeley.

Ernest Icardi, 230 Collingwood St.,
 San Francisco.
 George Scott, 685 Twenty-third St.,
 Oakland.

Arnold Smith, Emeryville.
 Gauhert Bros., 4735 Brookdale Ave.,
 Oakland.

Cicero & Malley.
 Al Staton, 3607 Grand Ave., Oak-
 land.

George Prentice, 4055 San Pablo
 Ave., Oakland.
 As previously reported:

J. J. Grodum & Co., 1028 San An-
 tonio Ave., Alameda.
 E. T. Lesure, 78 Ross Circle, Oak-
 land.

N. H. Sjoberg, Call Bldg., San Fran-
 cisco.
 E. T. Leiter & Son, 811 37th St.,
 Oakland.

Fred J. Westlund, 625 40th St.,
 Oakland.
 Emil Person, 829 San Luis Road,
 Oakland.

J. B. Bishop, 587 Athol St., Oakland
 Mutual Building Company.
 George Swanstrom, 1723 Webster St.,
 Oakland.

As previously reported, bids are to
 be opened August 19, 4 P. M.

SAN JOSE, Santa Clara Co., Cal.—
 Until September 2, 7:30 P. M., bids
 will be received by Board of Educa-
 tion, High School Building, to fur-
 nish and install furniture for schools.
 Specifications obtainable from Sec-
 retary.

Contract Awarded.
AUDITORIUM Cost, \$480,000
CLAREMONT, Los Angeles Co., Cal.
 Claremont College.

Class A reinforced concrete auditor-
 ium (to seat 2500).
 Owner—Claremont College.

Architect—William Templeton John-
 son, San Diego Trust & Savings
 Bank San Diego.

Contractor—Wurster Constr. Co., Ar-
 chitects Bldg., Los Angeles.

Plans Being Figured—Bids Close Au-
 gust 29, 7:30 P. M.
SCHOOL Cost, \$80,000

CERES, Stanislaus Co., Cal. Lau-
 rence Street.
 One-story brick veneer grammar
 school with tile roof.

Owner—Ceres Grammar School Dist.

Architect—W. H. Weck, 111
 St., San Francisco

Bids are wanted for (1) a general
 contract, (2) electric work, (3) heat-
 ing and ventilating. Certified check
 payable to W. P. Herhart, clerk
 of the district, required with bid.
 Plans on file in office of clerk and
 obtainable from the architect on deposit
 of \$20, returnable.

Low Bidders.
SCHOOL Cost, \$221,000

SANTA ANA, Orange Co., Cal.
 Frances Willard High School Site.
 Two-story reinforced concrete high
 school (30 classrooms and audi-
 torium).

Owner—Santa Ana Board of Educa-
 tion.
 Architect—Allison & Allison, Califor-
 nia Reserve Bldg., Los Angeles.

Low Bidder—C. W. Pettifer, 1427
 California St., Long Beach.

Plumbing—Gro King, Pasadena, at
 \$14,985.

Electric Work—Cave Elec. Co., Santa
 Ana, at \$12,680.

Heating—H. O. Ehlen, Orange, at
 \$20,645.

Plans Being Prepared.
SCHOOL Cost, \$275,000

MONTEREY, Monterey Co., Cal.
 Group of school buildings (academic
 unit, auditorium, gymnasium,
 shop, tennis courts, flying field
 and heating plant).

Owner—Monterey Union High School
 District.
 Architect—Swartz & Ryland, Spazier
 Bldg., Monterey; 373 Main St., Sa-
 linas, and Brix Bldg., Fresno.

Engineers—Leland & Haley, 55 Sut-
 ter St., San Francisco

Bids Rejected.
HEATERS Cost, \$—

STOCKTON, San Joaquin County, Cal.
 American and Church Sts.
 Installation of heaters in Lafayette
 School.

Owner—Stockton School District, A. S.
 Williams, secretary, Board of Edu-
 cation, Lindsay and San Joaquin
 Sts., Stockton.

Architect—None.
 Lowest bid was submitted by Alad-
 din Heating Co., 5107 Broadway, Oak-
 land, at \$2,377. Installation of the
 heating has been postponed for the
 present. The plant now in place will
 be repaired.

PITTSBURG, Contra Costa Co.,
 Cal.—Until August 25, 8 P. M. bids
 will be received by Armand Stew-
 art, Pittsburg School District, to
 furnish and install steel lockers in
 Junior High School. Specifications
 obtainable from City Superintendent
 of Schools in the high school.

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Plans Being Figured—Bids Close
 September 2nd.
SCHOOL Cost, \$20,000

WESTLEY, Stanislaus Co., Cal.
 One-story Class C brick or concrete
 elementary school (4 classrooms;
 Spanish type).

Owner—Grayson School District.
 Architect—Davis-Pearce Co., Grant
 and Weber Sts., Stockton.

Plans Being Figured—Bids Close August 29, 2 P. M.
SCHOOL Cost, \$4500
 MONTEREY, Monterey Co., Cal.
 One-story frame and stucco school with tile roof (electric heating).
 Owner—Tulareitos School District, John Berta, Clerk.
 Architect—W. O. Raiguel, West Annex, Del Monte Hotel, Del Monte.
 Certified check 10% required with bid. Plans obtainable from architect.

BANKS, STORES & OFFICES

Contract Awarded.
OFFICES Cost, \$75,000
 SANTA BARBARA, Santa Barbara Co., Cal. State and Figueroa Sts.
 Two-story and basement structural steel & concrete offices (41x95 ft).
 Owner—Santa Barbara Mutual Bldg. & Loan Association, 314 State St., Santa Barbara.
 Architect—Edwards & Plunkett, 20 E. Figueroa St., Santa Barbara.
 Contractor—Santa Barbara Constr. Co., Santa Barbara.

Contract Awarded.
ALTERATIONS Cost, \$4500
 VALLEJO, Solano Co., Cal. No. 436 Georgia Street.

Remodeling store; new front, interior fixtures and renovations, etc.
 Owner—W. R. Carithers & Sons, Inc., 436 Georgia St., Vallejo.

Private Plans.
 Contractor—James F. Fuller, 1301 Sacramento St., Vallejo.

The contract awarded to Fuller covers the new front, estimated to cost \$4500. The complete remodeling project together with installation of fixtures will involve an expenditure of \$20,000, which includes installation of a pneumatic tube system.

Construction To Start Sept. 1st.
BUILDING Cost, \$1,250,000
 LOS ANGELES, Cal. SE Wilshire Blvd. and Western Ave.
 Twelve-story Class A theatre and commercial building (300x200 ft.).
 Owner—Serrano Corp.

Architect—Morgan, Walls & Clements, Van Nuys Bldg., L. A.
 Contractor—William Simpson Constr. Co., Architects Bldg., Los Angeles (building portion).

G. Albert Lansburgh, Consolidated Bldg., Los Angeles, and 140 Montgomery St., San Francisco, is the architect for the theatre portion.

Pl'ts To Be Prepared.
STORE Cost, \$—
 RICHMOND, Contra Costa Co., Cal.
 Twenty-third St. and Macdonald Ave. (140x123 ft.)

One-story brick store (Spanish type) (24,000 sq. ft.)
 Owner—Los Angeles Syndicate (Names Withheld).

Architect—Hamilton Murdock, Syndicate Bldg., Oakland.

Low Bidder.
STORE, ETC. Cont. Price, \$19,640
 NEWMAN, Stanislaus Co., Cal.
 One-story brick and hollow tile store and warehouse (50x125 feet).

Owner—A. M. Souza
 Architect—Hardman & Russ, Berkeley Bank Bldg., Berkeley.

Low Bidder—Roy Kruger, Gustine.

Contract Awarded.
ALTERATIONS Cost, \$15,000
 SAN FRANCISCO, 121 Post St.
 Extensive alterations to present store.

Owner—Isadore Weinstein, 1041 Market Street.

Architect—Hyman & Appleton, 63 Post Street.

Contractor—Jacks & Irvine, Call Bldg.

Bids Opened.
STORE, ETC. Cost, \$12,000
 WILLOW GLENN, Santa Clara Co.
 Two-story reinforced concrete store and lodge building.
 Owner—E. W. Brown.
 Architect—Wolfe & Higgins, Realty Bldg., San Jose.

General Work
 B. J. Smith, 1376 Mariposa St., San Jose \$10,692
 Megna & Newell, San Jose 11,160
 Thermotte Const. Co., San Jose 11,494
 W. L. Meyers, San Jose 11,560
 W. L. Jose, San Jose 14,623

Roofing
 Fred Hayden, 369 Stockton St., San Jose \$220
 W. J. Porter, San Jose 230

Painting
 Frank Herman, San Jose \$600
 Chas. Lynde, San Jose 622
 Francis Coon, San Jose 632
 Chas. Delter, San Jose 700

Plumbing and Heating
 H. J. Pascoe, 208 W-Santa Clara St., San Jose \$755
 L. Goldstein, San Jose 914
 Wm. Serpa, San Jose 940
 P. L. Snyder, San Jose 1041
 Bids held under advisement.
 (2539) 1st report July 29; 2nd Aug. 14, 1930. 16

Plans Being Completed.
ALTERATIONS Cost, \$100,000
 SAN FRANCISCO, St. Francis Hotel (Powell, Geary and Post Sts.)
 Alter mural room for restaurant and sweet shop.

Owner—St. Francis Hotel.
 Architect—W. B. Paville, Crocker 1st National Bank Bldg.
 Lessee—Pig'n Whistle Corp.

Bids will be taken in two or three weeks.

Contract Awarded.
OFFICES Cost, \$457,300
 YAKIMA, Wash.
 Eleven-story steel and concrete offices (brick, Swedish granite and Travertine stone exterior).

Owner—A. E. Larson.
 Architect—John W. Maloney, Yakima.
 Contractor—Hans Pederson Constr. Co., 1309 Summit St., Seattle.

Plumbing, heating and ventilating awarded to Morton Plumbing & Heating Co., Yakima.

Electric work awarded to J. J. Agutter, Seattle.

Preparing Plans.
STORE & OFFICES Cost, \$—
 LOS ANGELES, Cal. SE Wilshire Blvd. and Vicente St.

Eight-story Class A reinforced concrete store and offices (terra cotta exterior) (150x70 feet).

Owner—R. E. Taylor et al.
 Architect—S. Charles Lee, Petroleum Securities Bldg., Los Angeles.

Contract Awarded.
ALTERATIONS Cost, Approx. \$10,000
 SAN JOSE, Santa Clara Co., Cal. No. 135 S-First Street.

Alterations to store (new fronts, etc.)
 Owner—Max Bloom, 837 Morse St., San Jose.

Architect—Binder & Curtis, 35 W-San Carlos St., San Jose.

Contractor—H. A. Bridges, 1398 Lincoln St., San Jose.

SAN FRANCISCO—Consolidated Terrazzo Companies, Inc., 1397 E. Ninth St., Los Angeles, awarded contract for terrazzo work for cafe being fitted up in building at 1032 Market St. for Pig'n Whistle Corp. Jacks & Irvine, general contractors, Call Bldg., San Francisco. Charles F. Plummer, architect, 1128 Story Bldg., Los Angeles.

Preliminary Plans Prepared.
EXCHANGE Cost, \$75,000
 SONORA, Tolueme Co., Cal.
 Brick telephone exchange.
 Owner—Pacific Telephone & Telegraph Co., 140 New Montgomery Street, San Francisco.

Plans by Eng. Dept. of Owner.
 Project is in a very preliminary stage.

Sub-Contract Awarded.
STORE Cost, \$200,000
 SAN RAFAEL, Marin Co., Cal. Fourth and B Sts.
 Four-story and basement class A steel concrete and brick store and office building.

Owner—J. Albert, San Rafael.
 Architect—E. Heiman, 605 Market St., San Francisco.

Contractor—Lebert & Trobeck, Rialto Bldg., San Francisco.

Grading—C. G. Handkerlin, San Rafael.
Structural Steel—McClintic-Marshall Co., 2050 Bryant St., San Francisco.

Terra Cotta—Gladding, McBean Co., 660 Market St., San Francisco.

Reinforcing Steel—Truscon Steel Co., Call Bldg., San Francisco.

Bids Rejected—To Be Done By Day's Work By Owner.

STORE, ETC. Cost, \$12,000
 WILLOW GLENN, Santa Clara Co., Calif.

Two-story reinforced concrete store and lodge building.

Owner—G. W. Brown, 1034 Nevada St.
 Architect—Wolfe and Higgins, Realty Bldg., San Jose.

All bids were rejected as being too high. Work will be carried on by owner by day's labor. Sub-bids are being taken.

Plans Being Figured—Bids Close Aug. 27, 1 P. M.
ALTERATIONS Cost, \$—
 OAKLAND, Alameda Co., Calif. 7th and Washington Sts.

Alterations and additions to store and rooming house (15 stores).

Owner—A. G. Moffitt.
 Architect—Sidney, Noble and Archie Newsom, 1615 Broadway, Oakland.

Contract Awarded.
ALTERATIONS Cost, \$12,000
 FRESNO, Fresno Co., Cal. 1039 Fulton Street.

Alterations and additions to store.
 Owner—Eastern Outfitting Co.
 Architect—None.

Contractor—J. F. Farr & Son, 1296 Linden St., Fresno.

Preparing Plans.
OFFICE BLDG. Cost, \$750,000
 LOS ANGELES, Cal. NE Vermont Ave. and De Longpre St.

Thirteen-story reinforced concrete Class A medical office building (88x90 feet).

Owner—Corday & Broder.
 Architect—Charles F. Whittlesey, 618 S. Western Ave., Los Angeles.

Plans Being Figured.
ALTERATIONS Cost, \$25,000
 SAN FRANCISCO, 121 Post St.
 Extensive alterations to present store.

Owner—Isadore Weinstein, 1041 Market St.

Architect—Hyman & Appleton, 63 Post Street.

Contract Awarded.
SHOP Cost, \$8500
 WATSONVILLE, Santa Cruz Co., Cal.

One-story Spanish type tile and stucco electrical shop (30x70-ft.)
 Owner—Pajaro Valley Electric Co. (H. L. Purtil), Watsonville.

Architect—None.

Contractor—W. D. Loveless, Watsonville.

THEATRES

Bids Opened.
THEATRE Cost, \$—
SPOKANE, Washington.
 Class A theatre.
 Owner—Fox West Coast Theatres, Inc.
 Architect—R. C. Reamer, Stimson Bldg., Seattle.
 Low Bidder—F. E. Martin, Spokane, at \$462,925.
 It is proposed to install equipment and furnishings costing \$200,000, which amount is not included in the general contract bid.

Preparing Plans.
THEATRE Cost, \$300,000
WEST LOS ANGELES, Cal. Westwood Blvd.
 Class A reinforced concrete theatre (to seat 2000)
 Owner—Janss Investment Co.
 Architect—P. P. Lewis, 1063 Westwood Blvd., Los Angeles.
 Lessee—Fox West Coast Theatres, Inc.

Preparing Working Drawings.
THEATRE Cost, Approx. \$1,000,000
OAKLAND, Alameda Co., Cal. Broadway near Hobart Street.
 Class A theatre building.
 Owner—Publix Theatres, Inc.
 Architect—Miller & Pfueger, 530 Market St., San Francisco.
 Plans will be ready for bids about October 1st or 15th.

Bids To Be Taken In About Two Weeks.
THEATRE Cost, \$250,000
SAN FRANCISCO. Ocean Ave., bet. Fairfield and Lakewood Aves.
 Class A steel frame and reinforced concrete theatre and (6-8) stores; theatre seating 1800.
 Owner—Samuel Levin.
 Architect—Miller & Pfueger, 530 Market St., San Francisco.
 Structure will have a seating capacity of 1800 and contain six or eight stores. It will have a frontage of 182 feet on Ocean Ave.

Contract Awarded.
THEATRE Cost, \$200,000
SANTA BARBARA, Santa Barbara Co., Cal. Arlington Hotel Site.
 Class A reinforced concrete theatre (110x210 ft.) (to seat 1360).
 Owner—Banks, Huntley & Co.
 Architect—Edwards & Plunkett, 20 E. Figueroa St., Santa Barbara.
 Contractor—Henry I. Beller Constr. Co., 6513 Hollywood Blvd., L. A.
 Construction will start immediately.

WHARVES AND DOCKS

SAN FRANCISCO—M. B. McGowan, 74 New Montgomery St., has awarded the following sub-contracts in connection with the construction of Fort Mason Wharf No. 4, the work being undertaken for the San Francisco Board of Park Commissioners:
Cement—Cowell Lime & Cement Co., 2 Market St., San Francisco.
Concrete Aggregate—Standard Crushed Rock Co.,
Reinforcing Steel—Truscon Steel Co., Cal Bldg., San Francisco.
Cresosoted Piling and Lumber—McCormick Lumber Co., 215 Market St., San Francisco.
Form Lumber—Loop Lumber Co., Central Basin, San Francisco.
Pipe—Federal Pipe & Supply Co., 670 Second St., San Francisco.
Bolts—Payne's Bolt Works, 201 Main St., San Francisco.
Castings—Enterprise Foundry Co., 2902 19th St., San Francisco.

MISCELLANEOUS CONSTRUCTION

Plans Being Completed.
PLUNGE Cost, \$100,000
OAKLAND, Alameda Co., Cal. Vicinity of Technical High School.
 Reinforced concrete plunge (60x160-ft. concrete and steel building).
 Owner—California Plunge Corp. (A. L. Walters, general manager).
 Plans by L. R. McWethy.
 Contractor—L. R. McWethy, 337 17th St., Oakland.
 Work will be started in about thirty days. A nursery for accommodation of children, restaurant, spacious plunge and laundry are other features.

Plans Being Completed.
UNDERTAKING PARLORS \$40,000
SAN FRANCISCO. Sacramento St., bet. Van Ness Ave. and Polk St.
 Three-story frame and stucco undertaking establishment and apartments.
 Owner—Jos. Hagan, 1708 Sacramento St., San Francisco.
 Architect—Henry C. Smith and A. R. Williams, Humboldt Bank Bldg., San Francisco.
 Bids will be taken in about two weeks.

LOS ANGELES, Cal.—L. E. Dixon Co., Edwards & Wilbey Bldg., awarded contract at \$415,000 by Los Angeles Board of Public Works for enlarging Los Angeles Coliseum at Exposition Park, or work contemplated under Unit B in accordance with bids taken last February. Addition will provide 30,000 additional seats and will be of reinforced concrete and steel construction. Dixon Company now completing work on Unit A, including removal of upper half of the structure and reconstructing of reinforced concrete.

Plans Being Figured—Bids Close August 25, 4 P. M.
ART GALLERY Cost, \$60,000
STOCKTON, San Joaquin Co., Cal. Victory Park.
 Haggin Memorial Museum and Art Gallery (steel and brick filler walls; concrete floors; metal joists; steam heating system).
 Owner—San Joaquin Pioneer & Historical Society (Donation of Mrs. Ella McKee).
 Architect—W. J. Wright, Mail Bldg., Stockton.
 On previous call for bids lowest bid on general work was submitted by W. J. Scott, 1661 W. Poplar St., Stockton, at \$59,960 and Paul-Harry Co., 427 E. Channel St., Stockton, were lowest on heating at \$5839.
 Deposit of \$20 required for plans. Plans must be received from architect personally.

Contract Awarded.
STUDIO Cost, \$18,000
SAN MATEO, San Mateo Co., Cal. Thirteenth and B Sts.
 Two-story frame and stucco dancing studio and apartments (5 rooms, 2 baths (40x50 ft.)).
 Owner—Callan Jader.
 Architect—Grimes & Schoening, Balovich Bldg., San Mateo.
 Contractor—Lengfeld & Olund, 145 N. El Camino St., San Mateo.
 Financing arrangements are now under way. Upon completion of same construction will be started.

SAN FRANCISCO—City Engineer M. M. O'Shaughnessy has presented plans to the Board of Supervisors for the proposed \$1,000,000 garbage incinerator to be erected at 15th and

De Haro Sts. The plans will await the approval of the Supervisors' Health Committee.

SACRAMENTO, Cal.—City council sells \$150,000 bond issue to finance improvements at the Municipal Airport for a premium of \$6,689.50. The proceeds of the sale will provide for the erection of hangars and other airport development. Jas. Dean is city manager.

Roofing and Painting Contracts Awarded.
FIELD HOUSE Cost, \$—
SAN FRANCISCO. Portola Playground
 Felton and Hamilton Sts.
 One-story playground field house.
 Owner—City and County of San Francisco (Playground Commission).
 Architect—Gardner Dailey, Room 610, 425 Mason St., San Francisco.
 Contractor—Jacks & Irvine, 74 New Montgomery St., San Francisco.
Roofing—Wm. J. Anderson, 3825 Army St., San Francisco.
Painting—D. Zellinsky & Sons, 165 Grove St., San Francisco.

REDDING, Shasta Co., Cal.—City Council has purchased tract of land on north side of the Sacramento river and will improve the same for a swimming pool and parking area. The site has a 478 ft. frontage on the river.

SAN FRANCISCO—Engineers of American Telephone and Telegraph Co. and the Bell Laboratories are seeking a site near San Francisco on which it is proposed to locate the first short wave radio telephone station to be operated between California and Hawaii. Construction of the plant will involve an expenditure in excess of \$1,000,000.

Plans Complete
BAKERSFIELD, Kern Co., Cal.—Kern River Park.
 Comfort Station and Fountain.
 Owner—Kern River Park.
 Landscape Architect—Howard Gilkey, Howden Bldg., Oakland.
 Bids will be advertised for shortly.

Preliminary Studies Being Made.
MEMORIAL PARK Cost, \$—
SANTA ROSA, Sonoma Co., Cal. 20-acre site.
 Lay out memorial park.
 Owner—City of Santa Rosa.
 Landscape Architect—Howard Gilkey, Howden Bldg., Oakland.
 Work involves playground, recreation buildings. Provisions will also be made for boating and canoeing.

SAUSALITO, Marin Co., Cal.—Golden Gate Yacht Harbor, Ltd. capitalized at \$200,000, has been incorporated and will construct yacht harbor improvements at Sausalito. Directors of the company are: Albert Van der Worp of Sausalito; Wm. C. Grayson, Joseph L. Sweney, Joseph L. Taaffe, Paul Drewes, Patricia Driscoll and Joseph C. Daugherty, all of San Francisco.

SAN FRANCISCO—Board of Supervisors authorities proposal to be placed on November ballot providing for issuance of bonds in the sum of \$4,000,000 for developments at the Mills Field Municipal Airport. Of the total amount of the issue, \$1,500,000 will provide for final payment on the site.

SAN FRANCISCO—Board of Supervisors authorities proposal to be placed on November ballot providing for the issuance of bonds of \$1,000,000 to finance construction of a garage incinerator.

(Continued on Page 22)

Engineering News Section

BRIDGES

MERCED, Merced Co., Cal.—County surveyor instructed to prepare plans to widen two bridges, one over Edendale Creek and another over Escaladian Canal, both northeast of Merced. Plans for a new bridge over the canal west of the San Joaquin river in Rd. Dist. No. 5 were also ordered prepared.

TUCSON, Ariz.—R. H. Martin, 311 N Third Ave., Tucson, awarded contract by the city council at \$149,996 to construct Broadway subway under the Southern Pacific Ry., involving: Section 1—8297 cu. yds. concrete; 32,200 cu. yds. excavation; 553,350 lbs. reinf. steel; 3811 sq. yds. conc. pavement; Section 2—4400 lin. ft. piling; 758,690 B. M. ft. framing timbers; 473 tons structural steel; 27,861 sq. ft. waterproofing. The proposed subway will have two traffic tunnels and a single pedestrian tunnel between. The Coffey Forest Hill span which recently fell into the river. Structure will be 12-ft. wide with steel and asphalt floor. Specifications obtainable from John A. Shields, county surveyor at Auburn.

AUBURN, Placer Co., Calif.—Until September 2, bids will be received by county supervisors for cables and steel to be used in the 210-ft. bridge to replace the Coffey Forest Hill span which recently fell into the river. Structure will be 12-ft. wide with steel and asphalt floor. Specifications obtainable from John A. Shields, county surveyor at Auburn.

OAKDALE, Stanislaus Co., Cal.—County Supervisors provide \$92,156 appropriation in 1930-31 budget to finance replacement of Stanislaus River bridge at Oakdale. J. H. Hoskins, county surveyor.

UKIAH, Mendocino Co., Cal.—Until September 10, 11 A. M., bids will be received by H. M. Burke, county clerk, to construct four pile bent system bridge and approaches over Eel River, about 3 miles north of Potter Valley. Certified check 10% required with bid. Plans obtainable from E. H. Smith, county surveyor at Ukiah.

SANTA ROSA, Sonoma Co., Calif.—Until September 1, 12 noon (to be opened 1:30 P. M.) bids will be received by Geo. P. Sanborn, county clerk, to construct two reinforced concrete culverts on the Paula road in Second Supervisorial District. Project involves:

- (1) 115 cu. yds. class A concrete;
 - (2) 12,500 lbs. reinforcing steel;
 - (3) 86 cu. yds. excavation;
- Plans obtainable from E. A. Peugh, county surveyor, at Santa Rosa.

OROVILLE, Butte Co., Cal.—Lord and Bishop, Oroville, at \$29,873 submitted only bid to county supervisors for improvements in Road District No. 1, involving the construction of a causeway. The bid was taken under advisement. The project involves:

(a) Construction of causeway on a rolled earth fill approximately 30 ft. high and 230 ft. long, containing 8400 cu. yds. of embankment of assorted materials from three different sources

1. 5000 cu. yds. of selected earth borrow to be placed in the rolled fill portion of the causeway.

2. 100 cu. yds. of solid rock from the Swayne Logging Railway and the highway cut at the east end of the proposed fill, material to be placed on slope of fill.

3. 2300 cu. yds. of rock and granular material from the widening of Lakeside Way, materials to be placed on the slopes of fill and in highway approaches to fill.

(b) Cleaning and grubbing timber and brush on site and approaches and moving present highway bridge.

(c) Stripping site to fill to bedrock to required width.

(d) Construction of cut-off trench to width required.

(e) Construction of 18 inches inside diameter reinforced concrete drainage conduit with timber control gate stand and placing control gate from outlet from old dam.

(f) Constructing three tube reinforced concrete syphon drainage culverts.

(g) Constructing highway approach at each end of fill.

(h) Reconstructing Swayne Logging Railroad (narrow gauge). Taking up and relaying 1400 ft. of main line track and 90 ft. of siding track. Moving and resetting water tank and camp buildings, tent floors and grading new camp sites.

(i) Regrading road connecting with Lakeside Way.

(j) Furnishing all material and labor, hauling, mixing, placing, laying out, assembling of materials, and all construction work either temporary or permanent in connection with the work and delivering the entire work complete and ready for use.

(k) Constructing and maintaining a suitable detour of the present county road during construction of causeway. Work under County Imp. Act of 1921.

SANTA ROSA, Sonoma Co., Calif.—Until September 1, 12 noon (to be opened 1:30 P. M.) bids will be received by George P. Sanborn, county clerk, to construct three timber trestles over Santa Rosa Creek at the Ballou ranch in the Third Supervisorial District. Project involves:

- 4,000 cu. yds. excavation;
 - 2,680 ft. redwood piling;
 - 44.6 M.B.M. lumber.
- Plans obtainable from E. A. Peugh, county surveyor, at Santa Rosa.

JENNER, Sonoma Co., Cal.—B. B. Meek, director of the State Department of Public Works, announces State Highway Commission will cooperate with the Russian River Crossing Joint Highway District in the construction of a steel and concrete bridge over the Russian River at Jenner-By-The-Sea. The district is composed of the counties of San Francisco, Marin, Sonoma and Mendocino, which counties will contribute \$15,000, \$12,500, \$85,000 and \$12,500 respectively. The state will provide \$65,000 as its share of the cost. J. B. Platt, Santa Rosa, is engineer for the district.

DREDGING, HARBOR WORKS & EXCAVATIONS

STOCKTON, San Joaquin Co., Cal.—Until August 26, 3 P. M., under Circular Proposal No. 21-51, Specifications 2327, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, to clear brush and trees for certain areas along the west bank of the San Joaquin River bet. Lindley Home and mouth of Stockton Channel, a distance of two miles below Stockton. Specifications and further information obtainable from above.

STOCKTON, San Joaquin Co., Cal.—Until August 26, 3 P. M., under Circular Proposal No. 21-50, Specifications 2326, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, to clear brush and trees from a certain area along the west bank of the San Joaquin River (Cut-Off "C") between Lindley Home and Burns Cut-Off, a distance of about 3½ miles below Stockton. Specifications and further information obtainable from above.

SAN FRANCISCO—Healy-Tibbitts Construction Co., 64 Pine St., at \$257,615 awarded contract by trustees of the Islais Creek Reclamation District, 375 City Hall, to construct rock bulkhead wall in trench at Islais Creek Channel, involving:

(1) 325,000 cu. yds. material to be dredged and disposed of;

(2) 175,000 tons of rock to be furnished, transported and placed. The work is located along the north side of Islais Creek Channel west of Third St. and along the east side of the Southern Pacific Company's trestle. Complete list of bids follows:

Healy-Tibbitts Const. Co., (1) 18c; (2) 42c; total \$257,615.

George Pollock (1) 20c; (2) 47c; total, \$287,580.

Industrial Land & Development Co.

(1) 20c; (2) 63c; total, \$363,376.

Merritt, Chapman & Scott, (1) 25c;

(2) 63c; total, \$380,815.

Kern & Kibbe, Inc., (1) 19c; (2)

72c; total \$403,135.

STOCKTON, San Joaquin Co., Cal. A. Mitchell, Sacramento, at \$30,500 submitted low bid to U. S. Engineer Office, Sacramento, under Proposal No. 31-40, Specifications No. 2280, to clear brush and trees from certain areas along the San Joaquin river between Burns Cut-Off and Turners Cut, about 3½ miles and ¾ miles, respectively, below the city of Stockton. P. D. Maritsas, Sacramento, only other bidder at \$34,590. Taken under advisement.

STOCKTON, San Joaquin Co., Cal. A. Mitchell, Sacramento, at \$43,560 submitted low bid to U. S. Engineer Office, Sacramento, under Specification No. 2241, to clear brush and trees from certain areas along the San Joaquin River, between Mormon Channel, at the city of Stockton, and Burns Cut-Off, a distance of about 3½ miles. P. D. Maritsas, Sacramento, only other bidder at \$46,700. Taken under advisement.

SAN FRANCISCO—M. B. McGowan, 74 New Montgomery St., has awarded the following sub-contracts in connection with the construction of wooden box drains for the Islais Creek Reclamation District:

Douglas Fir Lumber—Loop Lumber Co., Central Basin

Redwood Lumber—Union Lumber Co., Creeker Bldg., San Francisco.

Hardware—Bayne's Bolt Works, 201 Main St., San Francisco.

Excavation—McClure & Chamberlain, 608 Octavia St., San Francisco.

McGowan was awarded this contract on a bid of \$120,568. The project involves 45,000 lin. ft. wood piling (below cutoff); 3500 lin. ft. 14x8 ft. wooden box drain; 50 lin. ft. 10x8 ft. wooden box drain; appurtenances for drains. Project is located in the vicinity of Selby street from Oakdale to Evans ave. and along and under the Southern Pacific Company's tracks to Islais Creek Channel and along Tulare St. adjacent to Islais Creek Channel.

IRRIGATION PROJECTS

MERCED, Merced Co., Cal.—R. L. Underhill, 9 Tamalpais Ave., Berkeley consulting engineer in agriculture, has been in the El Nido district for several days evaluating the property of each of the 119 individual places in the district. The survey was made to determine if they are economically able to support a \$135,000 bonded indebtedness that it has been estimated will be required to finance complete construction of the engineering system which is to bring gravity water to 9400 acres of farm lands south of Merced.

Mr. Underhill will report next week to the State Bond Commission in Sacramento, the body which will have final jurisdiction as to the feasibility of the El Nido project. W. A. Wright is secretary of the El Nido District.

STREET LIGHTING SYSTEMS

GUSTINE, Merced Co., Cal.—Until September 8, 8 P. M. bids will be received by W. H. Chappell, city clerk, to install 37 electroliters together with underground system. Certified check 10% payable to the Chairman of the Board of Trustees required with bid. Plans obtainable from city clerk on deposit of \$10, returnable. A. E. Cowell, city engineer.

PORTERVILLE, Tulare Co., Cal.—R. A. Wattson, 1026 McCadden Street, Los Angeles, at \$21,252 awarded contract by city council (134) to install ornamental electroliter system in Main St. bet. Olive and Morton Sts., involving 56 two-light standards, together with underground system. Union Metal Mfg. Co.'s standards, Design No. 2881, 1911 Act. Bond Act 1915. Complete list of bids will be published shortly. Seven bids, in all, were received.

SANTA CRUZ, Santa Cruz Co., Cal.—Citizens' Committee has been named by Mayor Fred W. Swanton to interview property owners in Pacific Ave. with regard to the installation of a modern electroliter street lighting system. Roy Fowler is city engineer.

MACHINERY AND EQUIPMENT

MARTINEZ, Contra Costa Co., Cal.—Until Aug. 27, 8 P. M., bids will be received by Raymond E. Johnson, City Clerk, to furnish and deliver one 1930 New Six Cylinder one and

one-half-ton Truck with enclosed cab, Overhead valve engine, equipped with Air cleaner, Crankcase breather, A. C. Fuel pump, semi-elliptic spring dual wheels in rear, 30 x 5 Tires all around, Remountable slide dump body of 1 1/4 yard capacity level full with slides and two yards level with ends supplied with mechanical power hoist. Each side made to lift out. Body to be of No. 10 gauge steel plate, electrically welded without spare tire. Further information obtainable from clerk.

EL CERRITO, Contra Costa Co., Cal.—Until August 25, 8:30 P. M., bids will be received by Alice M. Walker, city clerk, to furnish and install one gasoline pump, complete. Further information obtainable from clerk.

SUNNYVALE, Santa Clara Co., Cal.—Until September 6, 7:30 P. M., bids will be received by Fred T. Butler, clerk, Sunnyvale Grammar School District, to furnish and deliver a motor school bus, complete chassis and body. Specifications and further information obtainable from clerk.

HOLLISTER, San Benito Co., Cal.—County supervisors contemplate the purchase of a steam shovel in connection with county road improvements; estimated cost \$8500. Elmer Dowdy, county clerk.

SACRAMENTO, Cal.—Until August 27, 2 P. M., bids will be received by R. H. Greeley, superintendent of equipment, Shop No. 3, State Highway Commission, for the sale of the following equipment no longer required by the commission:

CHC 1876 F. W. D. 2-ton truck chassis only.
CHC 43 5' Rawls Highway Mower.
CHC 44 5' Rawls Highway Mower.
CHC 15 Hadfield-Penfield McCormick Deering Tractor Grader.
CHC 14-69 Spearswell McCormick Deering Tractor Grader.

Bidders may make offers for one or more items but must state prices offered for each item. No lump sum bids will be considered.

All equipment may be inspected at the Division of Highways yards at 1852 24th St., Sacramento, Calif., from 8:30 A. M. to 4:30 P. M. on any working day.

FRESNO, Fresno Co., Cal.—Until August 27, 2 P. M., bids will be received by R. J. Carlisle, superintendent of equipment, Shop No. 6, State Highway Commission, Fresno, for the purchase of the following equipment no longer required by the commission:

CHC No. 1745 Liberty Dump Truck.
CHC No. 2034 Liberty Dump Truck.

CHC No. 1, Sullivan Drill Sharpener
1 Solar blue print frame complete with plate-glass 29 inches by 42 inches and felt.

Bidders may make offers for one or more items but must state price offered for each item. No lump sum bids will be considered.

All equipment may be inspected at the Division of Highways yards at 645 West Olive Avenue, Fresno, Calif., from 8:30 A. M. to 4:30 P. M., on any working day.

SAN LUIS OBISPO, San Luis Obispo Co., Cal.—Until August 27, 2 P. M., bids will be received by R. P. Hamlin, superintendent of equipment, Shop No. 5, State Highway Commission, San Luis Obispo, for the purchase of the following equipment, no

longer required by the commission:
CHC No. 238 Austin Mft. leaning wheel rubber tired grader,
CHC No. 21 Inley type C excavator
CHC No. 2078 Cleveland 1-ton hand dump truck,

CHC No. 35 4x6-in. Pump, Gould Triplex.

CHC No. 36 5x6-in. Pump, Gould Triplex.

CHC No. 37 3-inch Pump, American Centrifugal;

CHC No. 41 4x5-in. Pump, Myers model 553;

CHC No. 3 Steam Engine, 7 1/2 in. single cyl. 12 H.P. F. M.

CHC No. 4E Concrete Mixer, Foote No. 16-E with 10 H.P. Novo Eng.

Three 2-wheel Scrapers.

One conical Sand Screen with cast base and driving gears length 6-ft., diameter 5x4-ft., 5-16" holes.

One 1-yard Drng Line Bucket, Sauerman.

Two 1-yard Car Unloaders.
CHC No. 25 Gas Engine, 30 H.P. Doak, 152 3-16"x20"x18" Steel Traffic Plates. 8 3-16"x20"x12" do.

Bidders may make offers for one or more items but must state price offered for each item. No lump sum bids will be considered.

All equipment may be inspected at the Division of Highways yards at San Luis Obispo from 8:30 A. M. to 4:30 P. M. on any working day, except Gas Engine, 30 H.P. Doak, CHC No. 25, which may be inspected at the Highway yards at Paso Robles, and the 160 steel traffic plates, which may be inspected at the yards at San Juan Bautista.

EUREKA, Humboldt Co., Cal.—Until August 27, 2 P. M., bids will be received by W. H. Pierce, superintendent of equipment, Shop No. 1, State Highway Commission, for the purchase of the following equipment, no longer required by the commission: CHC 2312 Dodge Touring Car; CHC 235 Grader, Austin Giant 8-ft.

Bidders may make offers for one or more items but must state price offered for each item. No lump sum bids will be considered.

All equipment may be inspected at the Division of Highways yards at Eureka, California, from 8:30 A. M. to 4:30 P. M. on any working day.

SALINAS, Monterey Co., Cal.—Until August 28, 7:30 P. M., bids will be received by Buena Vista School District, to furnish and deliver school bus, 1930 Chevrolet 14-ton chassis, 131-in. wheel base, six cylinder motor, four-speed transmission, four-wheel brakes, heavy channel bumper in front, 32x6 truck type tires rear, 30x5 truck type tires front, one 32x6 truck type tire spare. Body to be Wayne Bus Body type 30 No. 310, length 10'-10", outside width 66", inside length 60", seating 18 to 20 pupils and driver, painted, lettered and ready for use. Further information from clerk of district. J. J. Bandour and Mrs. J. Secondo are trustees of the district.

EUREKA, Humboldt Co., Cal.—Two bids received by county supervisors to furnish and install laundry equipment in new county hospital now being completed, have been taken under advisement until August 20. The bids were:

American Laundry Machinery Co., San Francisco, \$8,156.05 on Prop. 1, and \$7,108.25 on Prop. 2.

Troy Laundry Machinery Co., San Francisco, \$7,130.

SAN FRANCISCO—Until Aug. 27, 2 P. M., bids will be received by J. W. Grace, superintendent of equipment, Shop No. 4, California State Highway Commission, for the sale of the following equipment no longer required by the commission:

CHC No. 1—Asphalt Plant, Warren Portable No. 90, located at San Jose Highway Yard

- CHC No. 76—Burner, Pavement, 24x 96 in., located at San Jose Highway Yard.
- CHC No. 60—Grader-Tractor-Attachment, International Duplex 13-foot Road Maintainer, located at Fruitvale Highway Yard.
- CHC N. 35—Mixer, Concrete, 1/4-sack, Foot No. 4-E, located at San Jose Highway Yard.
- CHC No. 27—Pump, 2-in. Centrifugal, G. W. Price type, located at Petaluma Highway Yard.
- CHC No. 4—Roller, Road, Steam, 12-ton Buffalo—Pitts, 3-wheel, located at Hopland Highway Yard.
- CHC No. 38—Scarifier, Darling Disc, located at Petaluma Highway Yard.
- CHC N. 80—Trailer, Detroit, 3-ton, cargo, 4-wheel, located at Fruitvale Highway Yard.
- CHC N. 84—Trailer, Detroit, 3-ton, cargo, 4-wheel, located at Fruitvale Highway Yard.
- CHC No. 85—Trailer, 5-ton, S. & S., 4-wheel, Shop Made, located at Fruitvale Highway Yard.

Bidders may make offers for one or more items but must state price offered for each item. Lump sum bids will be considered.

All equipment may be inspected at the Division of Highways' yards as noted after each item, between the hours of 8:30 A. M. and 4:30 P. M. on any working day.

RAILROADS

KLAMATH FALLS, Ores.—A. Guthrie Co., Sherlock Bldg., Portland, Ore., at approximately \$3,356,000 awarded contract by Great Northern Railroad to construct new line from Klamath Falls, Oregon, to Bieber, Lassen Co., Calif., a distance of 88 miles. The line will connect with the unit now under construction for the Western Pacific Railroad, the contract for which has been awarded to W. A. Bechtel & Co. of San Francisco and the Utah Construction Co. of Ogden, Utah.

STOCKTON, San Joaquin Co., Cal.—City council has voted to drop negotiations with the Southern Pacific, Santa Fe and Western Pacific Railroads with regard to railroad lines in connection with the deep water project and has instructed the city attorney to file a certificate for the city to build the immediate port terminal lines and a line to Rough and Ready Island along the deep water project, tapping the area over which the railroads have been fighting. The rail project, as planned by the city, will cost between \$300,000 and \$400,000.

FIRE EQUIPMENT

INGLEWOOD, Los Angeles Co., Cal.—Until 8 P. M., Aug. 25, bids will be received by the city council for 1000 ft. 2 1/2-inch double jacket fire hose, lengths of approximately 50 ft., equipped with P. C. T. couplings ready for use. Otto H. Duelke, city clerk.

PIPE LINES, WELLS, ETC.

SAN FRANCISCO.—Robt. Forbes, at \$3,400 submitted low bid to Board of Public Works to install Pleasanton Wells System, involving the drilling of a gravel envelope well; single well, 200 ft. in depth, involving: 30 in. ft. sinking test bore; 60 in. ft. 30-in. conductor pipe; 250 in. ft. reaming bore and furnishing and installing 14-in. casing with gravel envelope; 1 test pump and appurtenances; 24 hours operating test pump. Western Well

Drilling Co., at \$4,046 only other bidder.

SAN FRANCISCO.—Western Well Drilling Co., at \$4,046 awarded contract by Board of Public Works to install Pleasanton Wells System, involving the drilling of a gravel envelope well; single well, 200 ft. in depth, involving: 250 in. ft. sinking test bore; 60 in. ft. 30-in. conductor pipe; 250 in. ft. reaming bore and furnishing and installing 14-in. casing with gravel envelope; 1 test pump and appurtenances; 24 hours operating test pump.

CRESCENT CITY, Del Norte Co., Cal.—Until September 3, 11 A. M., under Specification No. 6261, bids will be received by Public Works Officer, Navy Yard, Mare Island, for improvements to fire protection and deepening of the existing well at the U. S. Naval Radio Compass Station at Point St. George, Crescent City. Specifications obtainable from Commandant at the Mare Island Navy Yard and obtainable on deposit of \$5, returnable, checks for same to be made payable to Chief of the Bureau of Yards and Docks.

SEWERS AND SEWAGE DISPOSAL PLANTS

OAKLAND, Cal.—Until September 4, 12 noon, bids will be received by Frank C. Merritt, City Clerk, to construct main outlet sewer extension southwest of Fifth Ave. to water front, involving:

40.92 cu. ft. 36-inch reinforced concrete pipe sewer with concrete saddle and timber foundations, excepting piles;

15.42 lin. ft. steel pipe sewer, with concrete saddle and timber foundations;

495 lin. ft. creosoted wooden-stave pipe sewer, with steel bands, shoes, etc.;

1 concrete manhole with c. i. top and steel locking device;

700 lin. ft. (500 ft.) piling;

1 concrete end wall with automatic tide gates, etc.;

17.55 lin. ft. existing concrete sewer to be removed.

Bond of \$3000 required of successful bidder. Plans on file in office of city clerk and obtainable from Walter N. Frickstad, city engineer.

REDWOOD CITY, San Mateo Co., Cal.—County supervisors approve plans of County Surveyor Geo. A. Kneese for district on the north end of the county to provide for the disposal of sewage from South San Francisco, San Bruno, Lomita Park and Capuchino in San Francisco Bay. The project will be known as Acquisition and Improvement District No. 21 and will involve an expenditure of \$125,000.

ALAMEDA, Alameda Co., Calif.—Heafey-Moore, 344 High St., Oakland, at \$6,588.55 submitted low bid to city to construct storm water sewer. J. T. Clinch, \$6,622 and L. L. Page, \$6,967, next two low bidders. Taken under advisement.

SAN FRANCISCO.—Until September 17, 2:30 P. M., bids will be received by Board of Public Works, to construct College Hill Tunnel Sewer, known as Section K; estimated cost, \$520,000. Project involves in the main: 6,500 ft. reinf. conc. sewer ranging in size from 4-ft. by 6-ft. 6-in. to 6-ft. circular, 4,300 ft. of which will be in tunnel. The work extends from the Mission Viaduct to Valencia and Army Sts. Time for completion, 450 days. Deposit of \$10 required for plans, ob-

tainable from Bureau of Engineering, 3rd floor, City Hall. Deposit is returnable.

SAN FRANCISCO.—Board of Public Works has requested the supervisors to adopt an ordinance authorizing a call for bids to construct the Army Street Main Sewer from Pennsylvania Ave. to Mississippi Street, and an outlet to Marin Street, involving 826-ft. of 2-ft. 6-in. by 3-ft. 9-in. reinforced concrete sewer. Estimated cost, \$15,000.

MOUNTAIN VIEW, Santa Clara Co., Cal.—C. Dudley DeVelbliss, 354 Hobart St., Oakland, at \$6,924 submitted low bid to city trustees to construct sewage pumping plant with cast iron discharge main emptying into Mountain View Slough involving: 530 cu. yds. excavation; 3,700 cu. ft. concrete; 11,700 lbs. reinforcing steel; Two sewage pumping plants, including pumps, motors, etc.; 340 ft. 12-in. cast iron pipe pressure line; 700 ft. B. M. redwood timber; Galvanized iron pump hose, wiring, etc.

Complete list of bids, all taken under advisement, follow:

C. D. DeVelbliss, Oakland.....\$6,924
P. L. Burr, San Francisco.....3,900
Pacific Coast Const. Co.....9,173
C. C. Kennedy, Cal Bldg, San Francisco, engineer.

LOS ANGELES, Cal.—The Board of Public Works has recommended to the city council that a bond issue of \$6,940,000 be placed on the November ballot for construction of about 65 miles of sewers to serve 53,550 acres. The proposal includes special items such as central outfall reconstruction, disposal works for the Harbor District, and an outfall system for San Fernando Valley above Van Nuys. J. J. Jessup is the city engineer.

MOUNTAIN VIEW, Santa Clara Co., Cal.—As previously reported, bids will be received by B. L. Hays, city clerk, August 18, 7:30 P. M., to construct sewage pumping plant with cast iron discharge main emptying into Mountain View Slough. Projects involves:

530 cu. yds. excavation;
3,700 cu. ft. concrete;
11,700 lbs. reinforcing steel;
Two sewage pumping plants, including pumps, motors, etc.;
340 ft. 12-in. cast iron pipe pressure line;
700 ft. B. M. redwood timber;
Galvanized iron pump house, wiring, etc.

This is a cash job. Certified check 10% payable to city required with bid. Plans on file in office of clerk and obtainable from engineer on payment of \$3, not returnable.

See call for bids under official proposal section in this issue.

SAN FRANCISCO.—Until September 3, 2:30 P. M., bids will be received by Board of Public Works for construction of Section C of the Alameda Storm Drain; estimated cost, \$148,000, to be financed from the Sewer Bond Fund. Time for completion 120 days. Project involves:

(1) 915 lin. ft. 2-compartment 8-ft. 6-in. x 11-ft. reinforced concrete storm drains exclusive of piles;
(2) 354 lin. ft. 2-ft. 6-in. x 3-ft. 9-in. reinforced concrete sewer exclusive of piles.
(3) 310 lin. ft. 8-in. V.C.P. under-drain covered with concrete or embedded in broken rock;
(4) 620 lin. ft. 10-in. C.V.P. under-

drain covered with concrete or embedded in broken rock;
(5) 900 lin. ft. 12-in. V.C.P. under-drain covered with concrete or embedded in broken rock;
(6) 8 manholes, complete, on concrete sewers;

(7) 138,000 lin. ft. of timber piling. Certified check 10%, payable to the Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall, on deposit of \$10, returnable.

SAN FRANCISCO.—Until September 8, 2:30 P. M., bids will be received by Board of Public Works to construct Section D of the Alemany Storm Drain estimated to cost \$60,000. To be financed from the Sewer Bond Issue Fund. Project involves:

- (1) 16,200 lin. ft. timber piling;
- (2) 1,195 lin. ft. 14-in. by 8-ft. wooden box sewer excluding piling;
- (3) 600 lin. ft. timber center partitions
- (4) 226 lin. ft. 3-ft. x 4-ft. 6-in. wood box sewer excluding piles;
- (5) 188 lin. ft. 12-in. V.C.P. sewer;
- (6) 125 lin. ft. 10-in. V.C.P. culvert;
- (7) 4 timber manholes;
- (8) 3 side connection posts;
- (9) 1 connection from 14-ft. by 8-ft. box section to 2-compartment concrete section.

Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall.

REDWOOD CITY, San Mateo Co., Calif.—County supervisors approve plans of R. A. Klassen, engineer, Courthouse, Redwood City, to construct outfall sewer system to serve portions of South San Francisco, San Bruno, Lomita Park and Caupcheno, into San Francisco Bay; estimated cost \$120,500. Project involves:

- Vitrified Salt Glazed Sewer Pipe**
- 2,700 lin. ft. 4-in.
 - 100 lin. ft. 6-in.
 - 5,300 lin. ft. 8-in.
 - 6,900 lin. ft. 10-in.
 - 9,900 lin. ft. 12-in.
 - 1,400 lin. ft. 15-in.
 - 8,400 lin. ft. 18-in.
 - 3,150 lin. ft. 21-in.

- Cast Iron Pipe Sewer**
- 96 lin. ft. 8-in.
 - 3,420 lin. ft. 10-in.
 - 144 lin. ft. 12-in.
 - 4,272 lin. ft. 14-in.
 - 120 lin. ft. 18-in.

- Vitrified Salt Glazed Wyes**
- 60 8x4-in.
 - 120 10x4-in.
 - 140 12x4-in.
 - 60 15x4-in.
 - 130 manholes.

- 28 M. ft. b.m. redwood pile trestle.
- 2 pump sumps.
- 2 pump houses.
- 4 air and vacuum valves.
- 4 pressure air valves.
- 4 400 GPM pumps, complete.
- 2 400 GPM pumps, complete.
- Project will be known as Acq. and Imp. District No. 21.

WATER WORKS

LOS ANGELES, Cal.—Until August 25, 2 P. M., bids will be received by county supervisors to furnish 5000 ft. 2-inch standard wrought iron black pipe for Big Tujunga Dam. Specifications obtainable from county clerk.

DENVER, Colo.—Until 2 P. M., Aug. 26, bids will be received by the Bureau of Reclamation, 1441 Welton St., Denver, for furnishing a pump and motor for the Owyhee Project, under No. 16160-B. The specifications ask for bids on one direct connected vertical turbine pump and motor (220 volt, 3 phase, 60 cycle), capacity 50 gals. per minute under total pumping head of 200 ft., including suction and friction

head; similar and equal to Byron-Jackson deep well turbine pump. The pump will be mounted on timbers over an open pit, with normal water surface 10.5 feet below the pump base. Provision shall be made for a draw-down of 2 feet, with the pump bowls properly submerged, and for 5 feet of suction pipe and a strainer connected to the bottom bowl. A suitable switch for across-the-line starting shall be included. Bids shall state make, shipping weight, and descriptive matter showing design, efficiency, and make and capacity of motor. A Mcd. Brook, purchasing agent.

SANTA BARBARA, Cal.—City Water Commission recommends that \$25,000 be made available for immediate repairs to municipal water system, plans for which are being prepared by the Municipal Water Department.

YREKA, Siskiyou Co., Calif.—Until September 4, 7:30 P. M., bids will be received by U. P. Brown, city clerk, to furnish and deliver 1,420-ft. 4-in., 660-ft. 6-in., 500-ft. 8-in. and 400-ft. 2-in. Class 150 bell and spigot pipe, together with miscellaneous fittings as more completely described in official proposal. Pipe to be in 16-ft. lengths of either A.W.W.A. specifications or pipe made by the Horizontal Sand Cast of the Centrifugal Method of classes as specified, both with open bell and precast joints. Certified check 10% required with bid.

HAWTHORNE, Nevada.—Until September 10, 11 A. M., under Specification No. 6150, bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., to construct an irrigation system at Naval Ammunition Depot, Hawthorne, Nevada. The work consists of a lawn sprinkler system and water supply mains, and includes earthwork, concrete, steel and iron work, and all piping, valves, fittings, sprinkler heads, and accessories necessary to install the sprinkling system. Plans and specifications may be obtained from the District Public Works Officer, Room 513, 100 Harri-

son Street, San Francisco, on deposit of a \$115 check or money order payable to the Chief of the Bureau of Yards and Docks.

SAN FRANCISCO.—Enterprise Foundry, 2902 19th St., at \$9487.50, submitted low bid to the Board of Supervisors to furnish approx. 210,000 lbs. of cast iron fittings for the San Francisco Water Department. Other bids: Bethlehem Steel Corp., 57c; Joshua Hendy Iron Works, 6c; Golden State Miners Iron Works, 6c; Steiger & Kerr, 6c. Taken under advisement.

SANTA ROSA, Sonoma Co., Calif.—Water Works Supply Co., San Francisco, at \$5,893.54 awarded contract by city council to clean water mains. Approximately 2,000 ft. of 8-in. mains will be cleaned.

SAN FRANCISCO.—Board of Supervisors rejects bids received June 9 to furnish sixteen deep well turbine pumps for the San Francisco Water Department.

PLAYGROUNDS & PARKS

Preliminary Studies Being Made.
MEMORIAL PARK Cost, \$—
SANTA ROSA, Sonoma Co., Cal. 20-acre site.
Lay out memorial park.
Owner—City of Santa Rosa.
Landscape Architect—Howard Gilkey, Howden Bldg., Oakland.
Work involves playground, recreation buildings. Provisions will also be made for boating and canoeing.

STREETS AND HIGHWAYS

SAN JOSE, Santa Clara Co., Cal.—Until September 2, 11 A. M., bids will be received by Henry A. Pfister, County Clerk, for improvement of North Tenth St., from Gish road to Taylor St., in supervisor district No. 3, and for improvement of Locust St., Vine St., Lick Ave., Alma Ave., and the San Jose and Almaden road in supervisor's district No. 2. Specifications obtainable from Robert Chandler, County Surveyor, at San Jose.

SAN FRANCISCO.—Western Pipe and Steel Co., 444 Market St., at \$7,771.60 submitted low bid to Board of Public Works, to furnish and install riveted steel pipe between Armour and Chapman Sts., South San Francisco, for the Municipal Water Department. Unit bids follow:
(a) Western Pipe and Steel Co., 444 Market St., San Francisco, \$7,771.60.
(b) Montague Pipe and Steel Co., 1900 Third St., San Francisco, \$8,201.70.

	(a)	(b)
260 lineal feet 44-inch pipe.....	\$ 8.65	\$ 8.52
300 lineal feet 36-inch pipe.....	7.45	7.57
2 tapers.....	84.00	86.00
1 8-inch gate valve.....	91.00	92.00
2 C. I. manholes.....	136.80	140.00
730 lineal feet (install) 44-inch pipe.....	2.60	2.95
300 lineal feet (install) 36-inch pipe.....	2.60	2.83
10 tapers (install).....	7.70	8.50

CONTRACTORS' MACHINE WORKS

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REDDING, Shasta Co., Calif.—Bids received August 15 by directors of the Joint Highway District No. 11 to construct the Weed-Klamath road project (1st unit), comprising Section from Station 0 to 00 to 142 plus 15, have been rejected and new bids have been ordered received under revised specifications which will bring cost within the amount of money available. New bids will be received by the directors at Redding on August 27. Bids received under the last call were:

- J. P. Brennan, Redding, \$52,525; F. C. Cuffe, San Rafael, \$57,825; W. C. Colley, Berkeley, \$60,998. Engineer's estimate \$58,005. The project involves:
- (1) 9.8 acres clearing;
- (2) 51.44 cu. yds. unclass. excavation;
- (3) 113 cu. yds. unclass. excavation for structures.
- (4) 21,803 sta. yds. overhaul;
- (5) 2.8 miles finish earth graded road;
- (6) 8.52 cu. yds. class C concrete;
- (7) 81 lbs. reinforcing steel;
- (8) 582 lin. ft. 18-in. G. C. M. P.

Plans obtainable from Carl F. Mau, district engineer at Redding.

SANTA BARBARA, Cal.—Hunter & Richardson, 525 E. Haley St., awarded contract by the city at \$16,456 to improve Cota St. bet. Milpas and Soledad Sts., involving grading, concrete pavement, concrete driveways, walk, vit. house sewers.

SOUTH SAN FRANCISCO, San Mateo Co., Cal.—Until September 3, 7:30 P. M., bids will be received by Daniel McSweeney, city clerk, (71) to improve Linden Ave., between Railroad Ave. and Southern Pacific Company's Bay Shore Line involving grading; hydraulic cement concrete sidewalks, gutters, curbs; pavement consisting of 3-inch asphaltic concrete base; 6-in. waterbound rock macadam sub-base on cushion and 2-inch asphaltic concrete wearing surface; two steel reinforced hydraulic concrete bridges; concrete box culvert; vitrified salt-glazed ironstone pipe sanitary sewer; brick manholes, catchbasins, electrolitters, cement concrete wall. Estimated cost \$100,000. Improvement Act 1911. Bond Act 1915. Certified check 10% payable to city required with bid. Plans on file in office of clerk. Geo. A. Kneese, city engineer.

PACIFIC GROVE, Monterey Co., Cal.—City council declares intention (3233) to improve Junipero Ave. bet. Forest Ave. and east city limits, involving grading; conc. curbs and gutters; asphalt. conc. pave.; storm drains; conc. catchbasins. 1911 Act. Bond Act 1915. Hearing Sept. 4. W. G. Stubbs, city clerk.

FRESNO, Fresno Co., Cal.—Thompson Bros., Fresno, awarded contract by city council for improvements under Res. of Intention. No. 105-D, involving cem. conc. walks, \$19 sq.

ft.; conc. curb, \$60 lin. ft.; 5-in. conc. driveway approach, \$28 sq. ft.

REDDING, Shasta Co., Cal.—Until September 2, 7 P. M., bids will be received by M. E. Luton, clerk, Shasta Union High School District, for grading and excavation in connection with extension of Magnolia Ave. from Eureka Way to 9th St. Specifications obtainable from clerk at 2054 Market St., Redding.

SAN RAFAEL, Marin Co., Cal.—City council declares intention (525) to improve Mission Ave. from Alice St. westerly, and Belle Ave. bet. Alice and Mission Aves. Project involves:

- (1) 800 cu. yds. excavation;
- (2) 23,258 sq. ft. 4-in. rock sub-base;
- (3) 23,258 sq. ft. 5-in. hydraulic concrete pavement;
- (4) 1,604 lin. ft. conc. curb and gutter;
- (5) 164 lin. ft. 4-in. I. S. pipe side sewers;
- (6) 10 cu. yds. shallow sewer protection;
- (7) 2 manholes with c. i. frames & covers;
- (8) 28 lin. ft. 10-in. C. I. pipe;
- (9) 110 lin. ft. 12-in. C. I.
- (10) 4 standard catchbasins.

1911 Act. Bond Act 1915. Hearing August 30. Eugene W. Smith, city clerk. Herbert K. Brainerd, city manager.

MILL VALLEY, Marin Co., Cal.—Town trustees declare intention (755) to improve portions of Summit Ave. and other streets involving vitrified pipe sewer; hydraulic concrete manholes; lampholes; wye branches and lateral; hydraulic concrete retaining wall; arch culverts; hydraulic conduit inlet. Project involves approximately 250,000 sq. ft. of hydraulic concrete pavement. Previous bids, providing for asphalt conc. pavement were rejected and new proceedings started for the improvement. A. G. Raichsch of San Francisco, submitted low bid at \$88,232. 1911 Act. Bond Act 1915. Hearing August 27. Will Falley, town clerk. Quantities of materials involved will be published shortly.

SAN LUIS OBISPO COUNTY, Cal.—Santa Maria Const. Co., Santa Maria, at \$11,344.65 submitted low bid to district engineer, State Highway Commission, to construct borders of crusher run base and oil treated surface on four miles between El Capitlan Creek and one mile south of Tujuglas. Taken under advisement.

PLACER COUNTY, Calif.—T. M. Morgan Paving Co., Los Angeles, at \$269,755 awarded contract by State Highway Commission to construct 531 lin. ft. of tunnel and about one mile of roadway to be graded and surfaced with crusher run base and oil treated crushed gravel or stone surface.

MARYSVILLE, Yuba Co., Cal.—Hemstreet & Bell, Marysville, at \$12,441 (plant mix) awarded contract by county supervisors to pave a shoulder 2½ feet wide along the west edge of District Ten Highway. Other bids: L. C. Seidel, Oakland, \$14,214; Teichert & Son, Sacramento, (bitumuls), \$17,005.

MARYSVILLE, Yuba Co., Cal.—Hemstreet & Bell, Marysville, at \$2635 (plant mix) awarded contract by county supervisors to pave portion of Feather River Blvd. extending across Plumas Lake.

SANTA BARBARA, Cal.—City Engineer E. B. Brown is checking petitions for the widening of 12 Canon Perdido St. bet. Milpas and Salsipuedes Sts. three blocks, and the paving of Canon Perdido bet. Milpas and Santa Barbara Sts., seven blocks. Pavement will probably be of cement concrete.

SANTA BARBARA & SAN LUIS OBISPO COS., Cal.—Lang Transportation Co., 5501 Santa Fe Ave., Los Angeles, at \$261,612 awarded contract by State Highway Commission to grade and surface with oil treated crushed gravel or stone, 37.9 miles bet. second crossing of the Cuyama river and the east boundary of San Luis Obispo County.

RICHMOND, Contra Costa Co., Cal.—Union Paving Co., Cal. Bldg. San Francisco, at approximately \$132,126.95 submitted only bid to city council (476) to improve Pullman Ave. bet. Cutting Blvd. and Panhandle Blvd., and Panhandle Blvd. bet. Pullman Ave. and Del Norte Place, and portions of Cutting Blvd., 45th, 47th and Monterey Sts., involving grading; pave with 4-in. broken stone cushion with three-course asphalt concrete pavement, consisting of two-course base of 6-inch asphalt conc. and 2-inch asphalt conc. surface; cem. conc. curbs with galv. steel curb bars; cem. conc. gutters, walks; corr. iron pipe inlets; corr. iron and cem. conc. culverts.

SAN LUIS OBISPO COUNTY, Cal.—As previously reported, bids will be received September 10, by State Highway Commission to apply seal coat to existing bituminous macadam surfacing on 1.7-miles west of Shandon and the east boundary. Project involves: 2,030 tons screenings; 170 tons asphaltic road oil.

SAN JOSE, Santa Clara Co., Cal.—Granite Construction Co., Watsonville, at \$47,861 awarded contract by county supervisors to improve Hecker Highway in Supervisor District No. 1. A. J. Raichsch, 46 Kearny St., San Francisco only other bidder at \$62,631. Estimate of Robert Chandler, county surveyor, \$53,969.

SACRAMENTO COUNTY, Cal.—Following bids received Aug. 13 by R. E. Pierce, district engineer, State Highway Commission, Sacramento, to improve highway between Twin Cities School and 1½ miles northeast of Herald, 4.6 miles in length, involving crushed gravel or stone borders with bituminous surface treatment to be constructed 3 ft. wide on both sides of existing pavement:

Perry & Reed, Tracy.....	\$ 7,224
J. R. Reeves, Sacramento.....	9,294
A. Teichert, Sacramento.....	9,567
L. C. Seidel, Oakland.....	10,390

NAPA, Napa Co., Cal.—Shell Oil Co., at \$12 ton, awarded contract by city council to furnish one carload of asphalt for street department.

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OROVILLE, Butte Co., Cal.—F. A. Sewell, Gridley, at \$6,435 (1944 cu. yd.) awarded contract by county supervisors to construct Fell Road extension.

REDWOOD CITY, San Mateo Co., Cal.—McClure & Chamberlain, 608 Octavia St., San Francisco, at \$19,635 awarded contract by county supervisors (23) to improve Oak Knoll Dr. from Lake Blvd. and Vista Dr. northerly, involving grading; 4-inch waterbound rock macadam base with 3-in. asphalt. conc. surface; guard rails; 6-in. vit. san. sewers; 30-in. hyd. cem. conc. pipe spillway or storm drain; brick manholes. W. A. Dantanville, Salinas, only other bidder at \$21,904.

SAN RAFAEL, Marin Co., Cal.—A. G. Ralsch, 46 Kearny St., San Francisco, at \$18,357 awarded contract by county supervisors to pave roads in Fairfax Heights District.

SAN RAFAEL, Marin Co., Cal.—Highway Builders, Ltd., 640 Redhill Ave., San Anselmo, at \$9660 awarded contract by county supervisors to surface Point San Pedro road from Point San Pedro School to Santa Venetia, 5.8 miles in length, involving 552,000 sq. ft. emulsified asphalt and screenings in place.

SAN RAFAEL, Marin Co., Cal.—Highway Builders, Ltd., 640 Redhill Ave., San Anselmo, at \$3586 awarded contract by county supervisors to surface the Olema-Bollinas road, from 1 mile south of Olema to Five Brooks, 2.8 miles in length, involving 266,000 sq. ft. of emulsified asphalt and screenings in place.

SAN RAFAEL, Marin Co., Cal.—Highway Builders, Ltd., 640 Redhill Ave., San Anselmo, at \$3519.75 awarded contract by county supervisors to surface the Upper Novato-Black Point road from the Redwood Highway to the Lower Black-Point road, 1.9 miles in length, to be surfaced with 180,500 sq. ft. emulsified asphalt and screenings in place.

BERKELEY, Alameda Co., Cal.—Until September 2, 11 A. M., bids will be received by Regents of the University of California, to construct Cross Campus Road on grounds of the University. Plans obtainable from Cashier's Window, California Hall, University of California, Berkeley, on deposit of \$50, returnable.

See call for bids under official proposal section in this issue.

KEDDIE, Plumas Co., Cal.—Morris-Knudsen Co., 219 Broadway, Boise Idaho, has been awarded a contract by the Western Pacific Ry. at about \$600,000 for the construction of five miles of roadway near Keddie.

W. H. Puckett Co., Boise, Idaho, has been awarded contract at about \$400,000 for constructing fifteen miles of roadway at the northern end of the Western Pacific Keddie cut-off, near Bieber.

HOLLISTER, San Benito Co., Cal.—Until September 2, 2 P. M., bids will be received by Elmer Dowdy, county clerk, to improve Bolsoa Road in Supervisor District No. 1, Lucy Brown Lane in Supervisor District No. 2 and the Hamilton Road, South Side Road, Hollister and Bird Creek Road and Riverside Ave. in Supervisor District No. 3, in all, approximately 1.8 miles, involving graveling and oiling; estimated cost, \$22,000. Plans on file in office of clerk.

SAN RAFAEL, Marin Co., Cal.—City council declares intention (528) to improve Second St. bet. A and E Sts. Project involves:

- (1) 1,857 cu. yds. excavation;
- (2) 59,746 sq. ft. 5-inch hydraulic concrete pavement;
- (3) 59,746 sq. ft. 4-inch stone sub-base;
- (4) 2,095 lin. ft. concrete curb;
- (5) 499 lin. ft. conc. curb and gutter;
- (6) 258 lin. ft. 4-in. I. S. pipe sewer;
- (7) 42 lin. ft. 6-in. do;
- (8) 70 lin. ft. 8-in. do;
- (9) 90 lin. ft. 12-in. do;
- (10) 1 standard manholes complete including frames and covers;
- (11) 30 cu. yds. shallow sewer protection;
- (12) 18 lin. ft. 10-in. C. I. pipe;
- (13) 34 lin. ft. 6x6x24-in. arch culvert, complete;
- (14) 224 lin. ft. 6x6x30-in. do;
- (15) 324 lin. ft. 21-in. concrete pipe;
- (16) 1 standard gutter inlet with 15-sq. grating;
- (17) 1 special catchbasin.

1911 Act. Bond Act 1915. Hearing August 30. Eugene W. Smith, city clerk. Herbert K. Brainerd, city manager.

SAN RAFAEL, Marin Co., Cal.—City council declares intention (528) to improve Second St. bet. A and E Sts., involving grading; 4-inch stone sub-base with hyd. concrete pavement of various thicknesses; 4-in. and 6-in. ironstone pipe side sewers; 6-in., 8-in. and 12-in. ironstone pipe sewers; hyd. concrete manholes; corr. iron pipe storm drains; hyd. conc. and corr. iron arch culverts; 21-in. centrifugally spun hyd. conc. storm sewer.

1911 Act. Bond Act 1915. Hearing August 30. Eugene W. Smith, city clerk. Herbert K. Brainerd, city manager.

SAN RAFAEL, Marin Co., Cal.—City council declares intention (525) to improve Mission Ave. from Alice St. westerly, and Belle Ave. bet. Alice and Mission Aves., involving grading; 4-inch rock cushion base with hydraulic concrete surface; comb. hydraulic concrete curb and gutter, manholes; 10- and 12-in. corr. iron culverts; 4-in. ironstone pipe side sewers.

1911 Act. Bond Act 1915. Hearing August 30. Eugene W. Smith, city clerk. Herbert K. Brainerd, city manager.

REDWOOD CITY, San Mateo Co., Cal.—Until August 25, 8 P. M., bids will be received by B. E. Myers, city clerk (M-12) to improve portions of Hawes St., involving grading; 5-inch cement concrete paving on 3-in. broken stone cushion on 1-in. sand base; cement concrete curbs; portions of Ruby St., involving 4-ft. by 5-ft. reinforced cement concrete box culverts, etc. one timber bridge; vit. sewers, etc. 1911 Act. Bond Act 1915. City will pay \$7000 of cost from 1930 Bond Fund. Certified check 10% payable to city required with bid. Plans on file in office of clerk. C. L. Dimmitt, city engineer.

SAN LUIS OBISPO COUNTY, Cal.—Until September 10, 2 P. M., bids will be received by State Highway Commission, to furnish and apply seal coat to existing bituminous macadam surfacing on 15.4 miles between 1.7 miles west of Shandon and the east boundary.

See call for bids under official proposal section in this issue.

SAN LUIS OBISPO, San Luis Obispo Co., Cal.—The County Supervisors have agreed to secure rights-of-way for the construction of a new Atascadero-Morro Road, following announcements by the supervisors of districts Nos. 2 and 5. The new road will follow surveys made two years

ago by J. B. Woodson of Fresno. The road will be 19 miles in length, but as 6 miles are in the Santa Barbara national forest, the districts will construct but 13 miles, the balance to be built by the bureau of public roads. Proposed grading and surfacing with gravel will be paid for in cash.

GILROY, Santa Clara Co., Cal.—City declares intention and will ask bids about August 21 to improve portions of Hianna, Romanna and other streets, involving: 500,82 sq. ft. 3-in. asphalt pavement; 41,515 sq. ft. 2-ft. gutter; 3736 lin. ft. curb; 4500 sq. ft. sidewalk; 3052 lin. ft. 6-in. conc. storm sewer; 9 catchbasins, 10,318 cu. yds. excavation.

1911 Act. Bond Act 1915. R. W. Fisher, engineer, 74 North First St., San Jose.

SAN FRANCISCO.—Until September 3, 2:30 P. M., bids will be received by Board of Public Works to improve, under Contract No. 21, Section B of Sunset Blvd. bet. Santiago Ave. and York St., estimated cost, \$90,000. This project will consist of grading and paving that section of the boulevard lying between 26th and 37th Aves. from Santiago Ave. to Sloat Blvd., involving in the main \$4,000 cu. yds. of excavation and 92,000 sq. ft. of asphalt macadam pavement. There will be provision for a 30-ft. roadways, two 15-ft. pedestrian walks and one 15-ft. equestrian drive. Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall, on deposit of \$10, returnable.

SAN FRANCISCO.—Board of Public Works has requested the supervisors to authorize a call for bids to construct Section C of the Sunset Blvd. under Contract No. 23, involving the grading and paving of that section between 36th and 37th Aves., from Santiago Ave. to Noriega St.; estimated cost, \$135,000.

PLUMAS COUNTY, Cal.—Finnell Co., Inc., Sacramento, at \$18,365, submitted low bid to District Engineer, U. S. Bureau of Public Roads, to furnish and apply oil to 12.66 miles of the Quincy-Beckwith National Forest Highway, Plumas National Forest, involving:

- 12.04 miles mixing oil treated crushed rock surfacing;
- 151,500 gals. asphaltic oil, furnished and applied.

A. Teichert & Son, Inc., Sacramento only other bidder at \$19,388.10.

PITTSBURG, Contra Costa Co., Cal.—Until August 25, 8 P. M., bids will be received by A. V. McPaul, secretary, Pittsburg High School District, for surfacing area fronting high school building. Alternate bids will be considered for (1) oil macadam and (2) concrete surfacing. Specifications on file in the office of the City Superintendent of Schools.

PITTSBURG, Contra Costa Co., Cal.—Until August 25, 8 P. M., bids will be received by Armand Stow, clerk, Pittsburg School District, for oil macadam surfacing of certain portion of S-mers St. west of the Junior High School. Specifications on file in office of the City Superintendent of Schools at the High School.

SANTA BARBARA, Cal.—City council declares intention to grade Ortega St. bet. Garden and Quarantina Sts., Costa St. bet. Laguna and Olive Sts., and Quarantina St. bet. Haley and Costa Sts., and Salsipuedes St. bet. Haley and Ortega St. 1911 Act. Projects Sept. 4.

WATSONVILLE, Santa Cruz Co., Cal.—Until August 27, 7:30 P. M., bids will be received by M. M. Swisher, City Clerk, to improve Madison St., between California and Prospect Sts., involving grading; macadamize with asphaltic oil; concrete curbs and gutters. Certified check 10% payable to city required with bid. Plans on file in office of clerk. H. B. Kitchen, city engineer.

VALLEJO, Solano Co., Cal.—J. E. Johnston Savings & Loan Bldg., Stockton, awarded contract by city council to improve Florida St., bet. Sonoma Ave. and Alameda St., including crossings, involving: 2,010 cu. yds. grading (excavation) \$11.10 cu. yd.;

79,107 sq. ft. subgrade, \$.03 sq. ft.; 79,107 sq. ft. 4-in. asphaltic concrete base pave, \$.14 sq. ft.; 79,107 sq. ft. 2-in. asphaltic concrete surface, \$.09 sq. ft.; 78 lin. ft. house lateral sewers, \$1 lin. ft.

WATSONVILLE, Santa Cruz Co., Cal.—Until August 27, 7:30 P. M., bids will be received by M. M. Swisher, City Clerk, to improve Lincoln St., between Third and Bridge Sts., involving grading; macadamize with asphaltic oil; concrete curb and gutters. Certified check 10% payable to city required with bid. Plans on file in office of clerk. H. B. Kitchen, city engineer.

BERKELEY, Alameda Co., Cal.—City Council declares intention (651) to improve portions of La Loma Ave. and Glendale Ave., involving grading; paving with oiled macadam and portions to be re-macadamized; conc. curbs and gutters, concrete walls, walks and steps, rubble masonry walls, highway fences; catchbasins; corr. iron pipe culverts and vit. sewer. 1911 Act. Bond Act 1915. Hearing Sept. 2. Florence E. Turner, city clerk.

SAN LUIS OBISPO, Cal.—Hartman Construction Co., Bakersfield, submitted low bid to the State Highway Commission at \$6277.40 for highway work in San Luis Obispo county, between Paso Robles and Atascadero (VI-SLO-2-B), about 9.4 miles in length, heavy fuel oil to be furnished, applied to the shoulders. The work involves:

- (1) 8.4 miles preparing shoulders and mixing after application of oil;
- (2) 2110 bbls. heavy fuel oil in place. The bids were:
- Hartman Const. Co., (1) \$376; (2) \$1.30; total, \$6277.40.
- M. J. Bevanda, (1) \$320; (2) \$2.10; total, \$7433.
- V. R. Dennis Const. Co., (1) \$500; (2) \$1.70; total \$8287.
- Irving L. Ryder, (1) \$490; (2) \$1.75; total \$5298.50.
- Steele Pinley (1) \$650; (2) \$1.50; total \$9275.

A. Telchert & Son, Inc., (1) \$595; (2) \$2.73; total, \$11,259.30.

OFFICIAL PROPOSALS

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received at the office of the State Highway Engineer, Public Works Building, Sacramento, California, until 2 o'clock P. M. on September 10, 1930, at which time they will be publicly opened and read, for construction in accordance

with the specifications therefor, to which a special reference is made, of portions of State Highway, as follows:

San Luis Obispo County, between 1.7 miles west of Shandon and the Easterly boundary (V-SLO-35-B & C), about fifteen and four-tenths (15.4) miles in length, seal coat to be applied to the existing bituminous macadam surfacing.

Proposal forms will be issued only to those Contractors who have furnished a verified statement of experience and financial condition in accordance with the provisions of Chapter 644, Statutes of 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Bids will not be accepted from a Contractor to whom a proposal form has not been issued by the Department of Public Works.

Plans may be seen, and forms of proposal, bonds, contract and specifications may be obtained at the said office, and they may be seen at the offices of the District Engineers at Los Angeles and San Francisco, and at the office of the District Engineer of the district in which the work is situated. The District Engineers' offices are located at Eureka, Redding, Sacramento, San Francisco, San Luis Obispo, Fresno, Los Angeles, San Bernardino and Bishop.

A representative from the district office will be available to accompany prospective bidders for an inspection of the work herein contemplated, and Contractors are urged to investigate the location, character and quantity of work to be done, with a representative of the Division of Highways. It is requested that arrangements for joint field inspection be made as far in advance as possible. Detailed information concerning the proposed work may be obtained from the district office.

No bid will be received unless it is made on a blank form furnished by the State Highway Engineer. The special attention of prospective bidders is called to the "Proposal Requirements and Conditions" annexed to the blank form of proposal, for full directions as to bidding, etc.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS,

C. H. PURECELL,

State Highway Engineer.

Dated August 13, 1930.

NOTICE TO BIDDERS

(Specification No. 6261—Bureau of Yards and Docks)

SEALED BIDS, indorsed "Bids for Improvements at the U. S. Naval Radio Compass Station, Point St. George, Crescent City, California, Specification No. 6261," will be received at the office of the Public Works Officer, Navy Yard, Mare Island, California, until 11:00 o'clock A. M., on September 3, 1930, and then there publicly opened, for improvements to fire protection system and deepening the existing well at the U. S. Naval Radio Compass Station, Point St. George, Crescent City, California.

Specification No. 6261 and accompanying drawing may be obtained on application to the Commandant, Navy Yard, Mare Island, California. Deposit of a check or postal money order for \$5.00, payable to the Chief of the Bureau of Yards and Docks, is required as security for the safe

return of the drawing and specification.

A. L. PARSONS,

Chief of Bureau.

August 14, 1930.

ADVERTISEMENT FOR BIDS

Subject to conditions prescribed by the undersigned, sealed bids are invited for the Construction of the Cross Campus Road on the Grounds of the University of California at Berkeley, California. No bids received after 11:00 A. M., Wednesday, September 3, 1930. The right to reject any and all bids is reserved. For full information apply at Cashier's Window, California Hall, University of California, Berkeley. A deposit of \$50.00 is required for each set of Drawings and Specifications.

THE REGENTS OF THE UNIVERSITY OF CALIFORNIA.

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received at the office of the State Highway Engineer, Public Works Building, Sacramento, California, until 2 o'clock P. M. on September 3, 1930, at which time they will be publicly opened and read, for construction in accordance with the specifications therefor, to which special reference is made, of portions of State Highway, as follows:

San Mateo County, between Redwood City and Willow Road (IV-S.M.-68-D), about four one-tenth (4.1) miles in length, to be graded.

Los Angeles County, a reinforced concrete girder bridge across Castaic Creek about 1/2 mile north of Castaic Junction (VII-L.A.-4-A), composed of seven 35-foot spans on concrete pile bents and concrete abutments with pile foundations.

Proposal forms will be issued only to those Contractors who have furnished a verified statement of experience and financial condition in accordance with the provisions of Chapter 644, Statutes of 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Bids will not be accepted from a Contractor to whom a proposal form has not been issued by the Department of Public Works.

Plans may be seen, and forms of proposal, bonds, contract and specifications may be obtained at the said office, and they may be seen at the offices of the District Engineers at Los Angeles and San Francisco, and at the office of the District Engineer of the district in which the work is situated. The District Engineer's offices are located at Eureka, Redding, Sacramento, San Francisco, San Luis Obispo, Fresno, Los Angeles, San Bernardino and Bishop.

A representative from the district office will be available to accompany prospective bidders for an inspection of the work herein contemplated, and Contractors are urged to investigate the location, character and quantity of work to be done, with a representative of the Division of Highways. It is requested that arrangements for joint field inspection be made as far in advance as possible. Detailed information concerning the proposed work may be obtained from the district office.

No bid will be received unless it is made on a blank form furnished by

the State Highway Engineer. The special attention of prospective bidders is called to the "Proposal Requirements and Conditions" annexed to the blank form of proposal, for full directions as to bidding, etc.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

DEPARTMENT OF PUBLIC WORKS,
DIVISION OF HIGHWAYS.

C. H. PURCELL,

State Highway Engineer.

Dated August 6, 1930.

NOTICE TO CONTRACTORS

Mechanical Work

SEALED BIDS will be received by Geo. B. McDougall, State Architect, Public Works Building, 11th and P Streets, Sacramento, California, up to 2 o'clock P. M., Tuesday, September 16, 1930, said bids thereafter on said day to be publicly opened and read, for the installation and completion of the Mechanical Work for the Industrial Shop Building and Superintendent's Cottage, Preston School of Industry, Near Ione, California, in accordance with plans and specifications therefor.

Mechanical Work includes Plumbing, Heating, Ventilation and Electrical Work. Separate bids will be received for "Electrical Work" and for "Plumbing, Heating and Ventilation Work." Combined bids will also be received covering all four branches of the work.

Plans and specifications are on file for examination in the office of the Division of Architecture, Public Works Building, Sacramento, California, and also at Room 1025 Associated Realty Building, Los Angeles, and at the principal California Cities Builders' Exchange Offices.

Plans, specifications, and proposal forms may be secured by licensed Contractors who have qualified or who will qualify by furnishing a verified statement of experience and financial condition as required by the provisions of Chapter 644, Statutes 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Questionnaire forms may be secured from the Division of Architecture.

Bids will not be accepted from a Contractor to whom a proposal form has not been issued and all bids must be on proposal forms supplied by the State.

Requests for plans shall be accompanied by a deposit of twenty-five (\$25.00) dollars. Check shall be made payable to the Department of Public Works, Division of Architecture. Deposit will be returned upon receipt of the set in good condition at Sacramento Office of the Division within 30 days after opening bids, otherwise it will be forfeited to the State.

All bids must be filed at the office of the State Architect on or before the time heretofore stated and in accordance with the "Rules for Bidding" accompanying the proposal form.

No bid will be considered unless cash, a bidder's bond made payable to the State of California, or a certified check made payable to the "State Engineer, Department of Public Works," in the sum of at least ten per centum (10%) of the amount of the bid is enclosed with the bid.

The Division of Architecture, State Department of Public Works, reserves the right to reject any or all bids and to waive any informality in any bid received.

STATE DEPARTMENT OF PUBLIC WORKS

DIVISION OF ARCHITECTURE
GEO. B. McDOUGALL,

State Architect.

B. B. MEEK,

Director of Public Works.

NOTICE TO CONTRACTORS

GENERAL WORK

SEALED BIDS will be received by Geo. B. McDougall, State Architect, Public Works Building, 11th and P Streets, Sacramento, California, up to 2 o'clock P. M., Tuesday, September 16, 1930, thereafter on said day to be publicly opened and read for the erection and completion of the Building and Superintendent's Cottage, Preston School of Industry, Near Ione, California, in accordance with plans and specifications therefor.

The Industrial Shop Building is a one-story and balcony brick structure with steel roof construction and slate roof. The floor area is approximately 3000 square feet.

The Superintendent's Cottage is a two-story with partial basement brick and frame structure of ten rooms.

Plans and specifications are on file for examination in the office of the Division of Architecture, Public Works Building, Sacramento, California, and also at Room 1025 Associated Realty Building, Los Angeles, and at the principal California Cities Builders' Exchange Offices.

Plans, specifications, and proposal forms may be secured by licensed General Contractors who have qualified or who will qualify by furnishing a verified statement of experience and financial condition as required by the provisions of Chapter 644, Statutes 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Questionnaire forms may be secured from the Division of Architecture.

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STATE DEPARTMENT OF PUBLIC WORKS

DIVISION OF ARCHITECTURE
GEO. B. McDOUGALL,

State Architect.

B. B. MEEK,

Director of Public Works.

Mesker Bros. Iron Co., St. Louis, Mo. has issued a bulletin on Mesker Heavy Duty Cruciform Industrial Windows

PLUMBING FIXTURE PRICES

July wholesale prices of standard plumbing fixtures for a six-room house, as collected by the U. S. Department of Commerce from reports of 12 representative manufacturers and wholesalers, were \$98.18, as compared with \$99.25 in June and \$97.94 in July, 1929.

MISCELLANEOUS CONSTRUCTION

(Continued from Page 17)

Steel Contract Awarded
LABORATORY Cost, \$—
LOS ANGELES, Cal. Second St. near San Pedro.

Five-story and basement Class A steel, concrete and brick laboratory (100x155 feet)

Owner—Brunswick Drug Co., 501 N. Main St., Los Angeles.

Architect—Albert C. Martin, Higgins Bldg., Los Angeles.

Steel—McIntire Marshall Co., Pacific Southwest Bank Bldg., L. A.

General bids will be taken in about thirty days.

To Be Done By Day's Work.
GOLF COURSE Cost, \$12,000
SAN FRANCISCO, 1223 Fillmore St.

Construct miniature golf course.

Owner—M. Natov, 1496 Market St.

Architect—None.

MISCELLANEOUS SUPPLIES AND MATERIALS

EL CERRITO, Contra Costa Co., Cal.—Until August 25, 8:30 P. M., bids will be received by Alice M. Walker, City Clerk, to furnish and deliver gasoline, kerosene and lubricating oil. Further information obtainable from clerk.

SAN FRANCISCO—Until August 25, 3 P. M., under Proposal No. 624, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish and deliver lumber as required for the San Francisco Water Department. Specifications obtainable from above.

SAN FRANCISCO—Mangrum - Holbrook Co., 1255 Mission St., at \$6,461.95 awarded contract by City Park Commission, Park Lodge, Golden Gate Park, to furnish and install kitchen equipment for dining pavilion at Harding Park Golf Course, involving: (1) kitchen equipment; (2) range equipment; (3) soda fountain and back bar fixture equipment; (4) special service aisle equipment; (5) dining room equipment; (6) refrigerator.

BUSINESS OPPORTUNITIES

SAN FRANCISCO—Names and addresses of the individuals or firms concerned in these opportunities will be furnished on request to the Business Opportunity Department of Daily Pacific Builder, 545-547 Mission Street.

Phone Garfield 574.
20375—Brazeau Saw Apparatus. San Francisco, Calif. French manufacturer of new electric apparatus suitable for brazing saws seeks an agent in San Francisco.

20383—Representation. San Francisco, Calif. University graduate having acquired a thorough speaking knowledge of the Japanese language wishes to make a connection in the Orient representing local business house. He has been engaged in the electrical and oil industries.

Norman E. Rotermund, 7 Front St., San Francisco, is interested in securing exclusive agency for Eastern trade for San Francisco and Northern California.

E. O. Williams, 3753 53rd St., Jackson Heights, Long Island, New York, is interested in securing a San Francisco firm in building material or specialty line to represent in the East.

John J. Costello, 222 Chestnut St., Philadelphia, Pa. is interested in securing manufacturers in San Francisco to represent in Philadelphia and vicinity.

Contracts Awarded Liens, Acceptances, Etc.

BUILDING PERMITS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Am.
1045	Hogrefe	Owner	200000
1046	Kurth	Sala	4000
DWELLING			
1047	Ryberg	Elkington	4000
1048	Boe	Owner	3000
1049	Hardiman	Owner	4000
1050	West	Owner	1200
1051	Treadwell	Jenkins	1300
1052	West	Owner	5000
1053	Lalst	Owner	1000
1054	Soule	Owner	2000
1055	McDonnell	Tuomisto	4000
1056	Goldstein	Owner	8000
1057	Anderson	Owner	4000
1058	McGregor	Mabey	1500
1059	Sharman	Owner	4000
1057	Gordon	Owner	4000
1058	Stroheim	Owner	7500
1059	Goden	Owner	3500
1060	Brown	Watson	1500
1061	Callagy	Owner	3000
1062	Halsen	Owner	4000
1063	Del Monte	Michel	2200
1064	Robinson	Owner	27500
1065	Meyer	Owner	4000
1066	Kavanagh	Owner	7500
1067	Bosley	Ellington	2000
1068	Weinstein	Hyman	8000
1069	Associated	Owner	1250
1070	Petri	Ferrari	4775
1071	Paramount	Owner	34000
1072	Associated	Owner	1500
1073	Natov	Owner	10000
1074	Soule	Owner	30000

APARTMENTS

(1045) SW CALIFORNIA and Octavia Sts.; six-story and basement class C (43) apartments.
Owner and Builder—H. D. Hogrefe & Son, 2999 California St.
Architect—E. E. Young, 2002 California St. \$200,000

DWELLING

(1046) W 21st AVE, 200 S Moraga; one-story and basement frame dwelling.
Owner—J. L. Kurth, 1360 9th Ave.
Plans by G. Latomel.
Contractor—G. A. Sala, 1360 9th Ave. \$4000

DWELLING

(1047) E 16th AVE, 200 S Vicente; 1-story and basement frame dwelling.
Owner—W. G. Ryberg, 2238 22nd Ave.
Architect—C. F. Strothoff, 2274 15th Street.
Contractor—E. J. Elkington & Sons, 320 Vicente. \$4000

DWELLING

(1048) W MIRAMAR 125 N Halloway; one-story and basement frame dwelling.
Owner—A. M. Boe, 700 Joost Ave.
Architect—None. \$3000

DWELLING

(1049) W 18th AVE, 200 N Kirkham; one-story and basement frame dwelling.
Owner—M. D. Hardimann, 423 38th Avenue.
Architect—None. \$4000

ALTERATIONS

(1050) 2246 LOMBARD ST.; alterations for indoor miniature golf course.
Owner—West Coast Development Co., 22 Van Ness Ave.
Architect—None. \$1200

ALTERATIONS

(1051) 38 ORD COURT; alterations to dwelling.
Owner—L. Treadwell.
Architect—None.
Contractor—Jenkins and Gross, 3433 Market St. \$1300

ALTERATIONS

(1052) SE MARKET and 5th Sts.; alterations for indoor miniature golf course.
Owner—West Coast Development Co., 22 Van Ness Ave.
Architect—None. \$5000

ALTERATIONS

(1053) 160 WAWONA; alterations to dwelling.
Owner—H. R. Lalst, 160 Wawona.
Architect—None. \$1000

STORAGE BLDG.

(1054) ARMY ST., oet. Mississippi and Missouri. One-story steel frame storage building.
Owner—Soule Steel Co., Rialto Bldg., San Francisco.
Engineer—J. A. Cole, 2175 Oregon St., Berkeley. \$2000

DWELLING

(1055) W CRANE 300 S Paul. One-story and basement frame dwelling.
Owner—T. McDonnell, 1896 Paluo Ave., San Francisco.
Plans by Contractor.
Contractor—W. E. Tuomisto, 3580 San Bruno Ave., San Francisco. \$4000

DWELLINGS

(1056) E 32nd AVE, 100 N Ulloa St.; two 1-story and basement frame dwellings.
Owner—E. Goldstein, 630 Divisadero.
Architect—None. each \$4000

DWELLING

(1057) E 22nd AVE, 150 N Ulloa St.; one-story and basement frame dwelling.
Owner—P. Anderson, 4082 Army St.
Architect—B. K. Dobkowitz, 425 Monterey Blvd. \$4000

ALTERATIONS

(1058) E SCOTT ST, 200 N Union; alterations to dwelling.
Owner—R. R. MacGregor, 2936 Scott.
Architect—W. W. Wurster, 260 California St.
Contractor—A. Mabey, 230 5th St. \$1500

DWELLINGS

(1059) W 27th AVE, 184 S Anza; two 1-story and basement frame dwellings.

Owner and Builder—T. R. Sharman, 1514 Irving St.
Architect—None. \$4000 each

DWELLING

(1057) W ALEMANY 75 N Santa Rosa; one-story and basement frame dwelling.
Owner—H. Gordon, 312 Hanover.
Architect—None. \$4000

FLATS

(1058) S CABRILLO 37 E 19th Ave.; two-story and basement frame (2) flats.
Owner—M. P. Stroheim, 100 Euclid.
Architect—L. O. Ebbets, 320 Fulton St. \$7500

DWELLING

(1059) N NEY 175 E Crane; 1-story and basement frame dwelling.
Owner—Q. V. Godin, 536 Monterey.
Architect—B. K. Dobkowitz, 425 Monterey Blvd. \$3500

ALTERATIONS

(1060) 242 GRANADA ST.; raise and alter dwelling.
Owner—L. E. and M. A. Brown, 242 Granada St.
Architect—None.
Contractor—E. Watson, 17 Appleton Ave. \$1500

(1061) E 16th AVE, 125 N Wawona; one-story and basement frame dwelling.
Owner—M. A. Callagy, 327 Day St.
Plans by Owner. \$3000

DWELLING

(1062) W 18th AVE, 220 S Lawton; one-story and basement frame dwelling.
Owner—A. Halsen, 2427 25th Ave.
Architect—None. \$4000

SHED

(1063) E 17th ST, 42 N Utah; one-story steel frame shed.
Owner—Del Monte Creamery, 375 Potrero Ave.
Plans by Contractor.
Contractor—Michel & Pfeffer Iron Works, Harrison and 10th Sts. \$2200

APARTMENTS

(1064) N NORTH POINT 87 E Broderick; three-story and basement frame (12) apts.
Owner—Robinson & Johnston, 871 31st Avenue.
Architect—L. D. Ebbets, 320 Fulton St. \$27,500

DWELLING

(1065) E GRAND VIEW 184 S Roman; one-story and basement frame dwelling.
Owner—Meyer Bros., 727 Portola Dr.
Plans by D. T. Burkes, 727 Portola.
Architect—None. \$4000

FLATS

(1066) E RETIRO 75 N Beach; two-story and basement frame (2) flats.
Owner and Builder—D. S. Kavanagh, 1121 Ordway.
Architect—None. \$7500

ALTERATIONS

(1067) 1904 BROADWAY; alterations to dwellings.
Owner—W. B. Bosley, 1904 Broadway.
Architect—E. B. Seely, 255 California.
Contractor—Elling Ellingson, 85 Liberty St. \$2000

CAPITAL CITY TILE COMPANY

J. C. PALEN

Manager

914 Seventh Street

Sacramento - - - California

ALTERATIONS

(1068) 119 POST ST.; remove elevator and install new store front.
Owner—Weinstein Co., 1028 Market St.
Architect—Hyman & Appleton, 78 Post Street.
Contractor—Jacks & Irvine, Call Bldg.
\$8000

SERVICE STATION

(1069) NE STEINER and Lombard;
one-story class C service station.
Owner—Associated Oil Co., 79 New Montgomery St.
Engineer—R. H. Hills. \$1250

FLATS

(1070) S MAGNOLIA 57 E Webster;
two-story and basement frame (2)
flats.

Owner—Elzio Petri.
Architect—P. De Martini, 948 Broadway.
Contractor—G. Ferroni & Sons, 1968 Filbert St. \$4775

APARTMENTS

(1071) SE PIERCE and Alhambra; 3-story and basement frame (12) apartments.
Owner—Paramount Bldg. Corp., Ltd., 200 Green St.
Architect—R. R. Irvine, Call Bldg.
\$34,000

SERVICE STATION

(1072) SW 19th and THIRD STs.; 1-story class C service station.
Owner—Associated Oil Co., 79 New Montgomery St.
Engineer—R. H. Hills. \$1500

GOLF COURSE

(1073) 1223 FILLMORE ST.; miniature golf course.
Owner—M. Natov, 1496 Market St.
Architect—None. \$10,000

BUILDING

(1074) N ARMY ST. bet. Mississippi and Missouri Sts.; one-story steel frame industrial building.
Owner—Soule Steel Co., 916 Rialto Building.
Engineer—J. A. Cole, 2178 Oregon St., Berkeley. \$30,000

BUILDING CONTRACTS

San Francisco County

Richlieu	O'Mara	2000
171 Petri	Ferroni	6985

PLUMBING

(1069) SE VAN NESS AVENUE and Geary St.; plumbing.
Owner—The Hotel Richlieu Corp., J. Murphy, president.
Engineers—Leland & Haley, 58 Sutter Street.
Contractor—O'Mara & Stewart, Ltd., 218 Clara St.
Filed Aug. 15, '30. Dated Aug. 13, '30.
Roughed in\$800
4 monthly payments on 5th of
each month 300
TOTAL COST, \$2060
Limit, 60 days.

170 Raven Chlappa 10150

ADDITION

(1070) N LOMBARD ST. 141 W Oc-tavia W 50 x N 137-6; all work on one-story and mezzanine addition to present building.
Owner—A. Raven.
Architect—W. H. Armitage, Call Bldg.
Contractor—C. Chiappa, 1109 Montgomery St.
Filed Aug. 18, '30. Dated Aug. 16, '30.
Steel trusses in place.....\$2600
Brown coated 2000
White coated 1500
Completed and accepted..... 1500
Usual 35 days..... 2550
TOTAL COST, \$10,150
Bond, \$5100. Sureties, T. Schulba and

U. Gasparetti. Limit, 60 days. Plans and Spec. filed.

FLATS

(171) S MAGNOLIA AVE. 53 East Webster St. 27½x120; all work on 2-story and basement frame flats.
Owner—Elzio Petri.
Architect—None.
Contractor—G. Ferroni & Sons, 1968 Filbert St.
Filed Aug. 20, '30. Dated Aug. 14, '30.
Record on \$1746.25
Rough coat plaster on 1746.25
Completed and accepted 1746.25
Usual 35 days 1746.25
TOTAL COST, \$6985
Limit, 90 days. Plans and Spec. filed.

COMPLETION NOTICES

San Francisco County

Recorded	Accepted
August 15, 1930—SE HOWARD and NE Russ St. NE 100 x SE 280. Eng-Skell Co to whom it may concern.....August 15, 1930	
August 15, 1930—SE HOWARD and NE Russ St. NE 100 x SE 280. Eng-Skell Co to M B McGowan.....August 15, 1930	
August 15, 1930—E of Howard St. S of 19th St. 35x125. R E Sattul to A De Benedetti.....August 1, 1930	
August 15, 1930—NW MAJESTIC AVE 225 NE Lakeview AVE 25x100. Albert R Peterson to whom it may concern.....August 15, 1930	
August 15, 1930—E 22nd AVE 100 N Lawton N 25 x E 120. Thomas F Dalton to C H Westlund.....August 10, 1930	
August 14, 1930—E 11th AVE 250 N Ortega 25x120, No 1856 11th AVE. Dusine and Paul Achenheli to K Walter Oertel.....August 14, 1930	
August 14, 1930—NW PARIS 200 S Brazil AVE 25x100 Blk 12 Excelsior Hd Assn. Ambrose B Frank to whom it may concern.....August 13, 1930	
August 14, 1930—S FILBERT 163 E Divisadero E 60 x S 100. St Geo Holden to whom it may concern.....August 13, 1930	
August 14, 1930—NE DARIEN WAY 132 SE West Gate Drive 41x90 Irregular. S Larsen and V P Laguens to whom it may concern.....August 12, 1930	
August 13, 1930—W 28th AVE 240 N Kirkham St N 25 x W 120. J Mc Donough to whom it may concern.....August 7, 1930	
August 19, 1930—W 24th AVE 81 N Cabrillo. Joseph F Marsili to Victor Chaix.....August 18, 1930	
Aug. 18, 1930—N MAGELLAN AVE 111 W Montalvo AVE. Blk 7, Forest Hill. Harvey E and Agatha M Richard to Jas Arnott & Son.....August 18, 1930	

Corrections.

Aug. 18, 1930—PTN LOTS 1, 2 AND 3 Blk 3262, Map Blks 3260 to 3269 Balboa Terrace Addition, desc'd NW San Alejo AVE 9.042 NE from NE line Said Lot 2 SW 44 807 W 108.318 N 40 E 128.265. George W and Josephine Stanley to whom it may concern. Aug. 15, 1930
Aug. 18, 1930—S BEACH dist N 80° 54' E 206.699 from pt. formed by int. S Beach if produced by NW Cervantes Blvd if produced NE 80° 54' E 25 S 9° 6' E 91.833 N 70° 25' 7" W 26.894 N 9° 6' W 61.969 ptn Marina Gardens. Emma McCabe to whom it may concern. August 15, 1930
August 16, 1930—E STANYAN ST 100 S Oak St 100x100. Adolph Hinkelman to C Anderson.....August 16, 1930
August 16, 1930—COMG AT PT 50 NE Geneva AVE 100 NW Bannock St NE 80 x NW 50. Maurice Tosch

to Ford Smith

August 16, 1930—W ELLSWORTH St 50 S Engenia. A L Gray to whom it may concern. August 16, 1930

LIENS FILED

San Francisco County

Recorded	Amount
August 14, 1930—LOTS 30, 31 and 32 Blk 143 Brown Estate Co Sub ptn University Md. F Muys vs E and L Booker \$81.50	
August 13, 1930—NW APPLETON AVE 52-3 NE Mission St SE 35 NE 34. The Tozer Co vs E Watson. \$86.54	
August 13, 1930—NW MOSCOW SW Excelsior AVE SW 37-6 x NW 100 Blk 72 Excelsior Hd Assn. John Pellegrini as Progressive Title & Mantel Co vs E Evangelisti and Vicente and Arlene Barsi \$79.50	
August 14, 1930—E 11th AVE 200 N Noriega N 25 x E 120. L E McEnhill vs Ernest Watson \$170	
August 16, 1930—NW APPLETON AVE 52-3 NE Mission St SE 35 x NE 34. Stura Bros vs E Watson. \$172.70	
August 16, 1930—LOTS 30, 31 and 32 Blk 143 Brown Estate Co Subdiv University Md. P and J Hereford and L J Sommer vs L A and E Booker \$342	
August 16, 1930—E STANYAN ST 100 S Oak St SE 100 x E 100. J Mills as Haight Plumbing Co vs C Anderson and A and J Hinkelman \$195.40	
August 15, 1930—S VICENTE 32-6 W 14th AVE W 25 x S 100. P Cera-gioni vs Geo J Elkington & Sons, George J and A H Elkington. \$225.30	
August 15, 1930—E 11th AVE 200 N Noriega N 25 x E 120. Stura Bros vs Ernest Watson \$350.11	
August 15, 1930—E 24th AVE 100 S Moraga S 25 x E 120 OL 883. Scott Co Inc vs George H and Mabel E McCarthy, James and Geneva O'Hanlon \$242	

Correction in Caption
August 14, 1930—NE SENECA AVE 50 NW Mission NW 43 x NE 50. California Terrazzo Marble Co vs E Evangelisti, Michael and Emerinda Miraglia \$45
August 19, 1930—NW MOSCOW 300 SW Excelsior SW 37-6 x NW 100. Lacey & Schulz vs E Evangelisti and Vicente Barsi. \$265
August 19, 1930—NE HAMILTON 175 SE Felton SE 25 x NE 120 Blk 35 R R AVE Hd Assn Tract. B Crespi to Wm F and Gertrude Bernell \$135
August 19, 1930—NE SENECA AVE 50 NW Mission NW 43 x NE 50 Blk 1 Oscar Heyman & Brother Sub West End Map No L S P Glass Co vs E Evangelisti, Michael and Emerinda Miraglia \$35
August 18, 1930—SE CHERENY and Burnside AVE S 70 x E 25 Blk Emily F Gallagher vs H A Potter \$600
August 18, 1930—NE ROSWORTH and Burnside AVE N 85 x E 25 Emily F Gallagher vs Amelia R Lathrop \$850
August 18, 1930—SW CHERENY & Burnside AVE N 66 deg 27 min 20 sec W 50 S 23 deg 28 min 4 sec W 100 S 66 deg 27 min 30 sec 32 50 N 23 deg 28 min 4 sec E 79 48 N 23 deg 28 min 4 sec E 20.52 to beg; W Burnside AVE 20.52 S Chereny S 80 46 N 66 deg 27 min 30 sec W 125 11 N 23 deg 28 min 4 sec E 79 48 to beg. Emily F Gallagher vs Minnie Gorman \$1155 97
August 18, 1930—NW ROSWORTH and Burnside AVE N 88 73 W 36 77 S 23 deg 25 min 04 sec W 93 95 E 52 21; NW Burnside AVE 98 73 NE Rosworth AVE 36 77 N 61 deg 11 min 56 sec W 233 90 N 70 deg 35

min 56 sec W 158.22 N 96.17 S 74 deg 14 min 30 sec E 168.21, thence deflecting 25 deg 51 min 34 sec S 48 deg 22 min 56 sec E 113.48, thence deflecting 9 deg 09 min 13 sec S 39 deg 13 min 43 sec E 130.35 S 75 deg 28 min 40 sec E 34.47 S W 36.27 to beg. Emily F Gallagher vs Morrill Estate, Inc.....\$1384.20

AUG. 18, 1930—NW MISSION AND NE Mohawk Ave NE 25.295 NW 114 28 SW 25 SE 120.65 Ptn Blk 1 and 2 Heyman's Sub West End Map. A Brunicarvl vs E Evangelisti and E and M Miraglia.....\$128

RELEASE OF LIENS

San Francisco County

Recorded	Amount
August 15, 1930—NW COR BATTERY and Bush Sts 50 v B 39. Blue Diamond Co to whom it may concern.....	\$3546.24
August 13, 1930—N PINE St 73 W Baker St W 33-3 x N 50. Frank Bartalini as The Light Shop to Anne C McDonald.....	

BUILDING PERMITS

Alameda County

No.	Owner	Contractor	Amt.
1013	Bruder	Pinkert	2200
1014	King	Owner	2750
1015	Zeigler	Owner	4900
1016	Ballachey	Vogt	20000
1017	Minnis	Williams	3200
1018	Kealer	Owner	3000
1019	Converse	Rose	1000
1020	Moore	Joseph	6000
1021	Welsh	Muller	56000
1022	Lesser	Isakson	5000
1023	Cohn	Owner	1000
1024	Acams	Owner	1000
1025	Hunter	Owner	1000
1026	Birdsall	Anderson	3900
1027	Whalen	Williamson	4000
1028	Atlas	Sheridan	1072
1029	Anderson	Owner	28000
1030	Morehouse	Leekins	Owner
1031	Sachan	Dyer	3000
1032	Milacek	Owner	1000
1033	Kemp	East	1500
1034	Whitcotton	Owner	1000
1035	Thomas	Williamson	4000
1036	Whalen	Schulz	10000
1037	Richards	Austin	6500
1038	Seaside	Owner	5600
1039	Kesti	Peterson	2000
1040	Derly	Owner	4000
1041	Fleming	Anderson	1009
1042	Jensen	Peterson	1000
1043	Sanders	Sommerstrom	6500
1044	East Bay	Strehlow	2243
1045	Oakland		

ALTERATIONS

(1013) NE COR. SCHOOL & Champion Sts., OAKLAND; alterations for apartments.

Owner—H. Bruder, 2800 School Street, Oakland.

Architect—None.
Contractor—F. Rinkert, 3628 Porter St., Oakland. \$2200

STORE

(1014) NW COR. 69th and E 14th St., OAKLAND; one-story store.

Owner—A. E. King, 2212 21st Ave., Oakland.

Architect—None. \$2750

DWELLING

(1015) S BOWLES PLACE, OAKLAND; two-story 5-room dwelling.

Owner and Builder—E. W. Zeigler, 8 Bowles Place, Oakland.

Architect—None. \$4900

STORE

(1016) E TELEGRAPH AVE. 195 S 48th St., OAKLAND; two-story stores.

Owner—G. P. Ballachey, 3800 Piedmont Ave., Oakland.

Architect—None.
Contractor—Vogt & Davidson, Bldrs. Exchange, Oakland. \$20,000

DWELLING

(1017) NE COR. OAK KNOLL AND Sequoia, OAKLAND; two-story 9-room dwelling.

Owner—J. A. Minnis, P. O. Box 804, Oakland.

Architect—None. Cost not given

DWELLING

(1018) 84 WILDING LANE, OAKLAND; one-story 5-room dwelling.

Owner and Builder—Florence A. Lewis 2635 Dwight Way, Berkeley.

Architect—None. \$4900

DWELLING

(1018) NO. 1200 TALBOT ST., BERKELEY. One-story five-room stucco dwelling.

Owner—M. M. Kealer, Fresno.

Architect—None.

Contractor—E. R. Williams, 2124 7th St., Berkeley. \$3200

DWELLING

(1019) NO. 444 MICHIGAN ST., BERKELEY. One-story six-room frame dwelling.

Owner—Earle R. Converse, 1088 53rd St., Oakland.

Architect—None. \$3000

ADDITION

(1020) NO. 2908 PIEDMONT AVE., BERKELEY. Addition.

Owner—R. Moore, Premises.

Architect—None.

Contractor—A. H. Rose, 478 25th St., Oakland. \$1000

DWELLING

(1021) S BROOKWOOD ROAD 200 W Trestle Glen, OAKLAND. Two story 6-room dwelling.

Owner—J. W. Welsh, 2057 20th Ave., Oakland.

Architect—W. W. Dixon, 1844 Fifth Ave., Oakland.

Contractor—Carl E. Joseph, 1215 Wellington St., Oakland. \$6000

APARTMENTS

(1022) S GLEN 502 W Linda, OAKLAND. Three-story 66-room apartments.

Owner—L. S. Lesser, 805 Syndicate Bldg., Oakland.

Architect—None.

Contractor—F. A. Muller, 805 Syndicate Bldg., Oakland. \$50,000

DWELLING

(1023) S PROCTOR 155 W Alta, OAKLAND. One-story 6-room dwelling.

Owner—Cohn Bros., 369 17th St., San Francisco.

Architect—None.

Contractor—E. D. Isakson, 2016 Audsion Ave., Oakland. \$5000

OFFICE

(1024) NE FOOTHILL BLVD. AND Seventy-sixth Ave., OAKLAND. One-story office and comfort station.

Owner—E. J. Adams, 4112 Manila Ave., Oakland.

Architect—None. \$1000

ADDITIONS

(1025) NO. 1713 SANTA CLARA Ave., ALAMEDA. Frame addition.

Owner—Mrs. H. Hunter, Premises.

Architect—None. \$1000

DWELLING

(1026) 1812 SANTA CLARA AVE., ALAMEDA. One-story 5-room frame and stucco dwelling.

Owner—W. Birdsall, Oakland.

Architect—Owner.
Contractor—Walter H. Anderson, 1014 Doris Court, Alameda. \$3900

DWELLING

(1027) 2810 WEBSTER ST., BERK.

ELY; one-story 5-room dwelling.

Owner—J. H. Whalen, 324 Warwick St., Oakland.

Architect—None.

Contractor—B. M. Williamson, 3721 Allendale Ave., Oakland. \$4000

ALTERATIONS

(1028) 412-18 14th St., OAKLAND; alterations.

Owner—Atlas Building Co., 412 14th St., Oakland.

Architect—None.

Contractor—Robt. E. Sheridan, 286 12th St., Oakland. \$1672

DWELLING

(1029) S LOGAN 500 W Fruitvale Ave., OAKLAND; one-story five-room dwelling.

Owner and Builder—C. Anderson, 2142 25th Ave., Oakland.

Architect—None. \$2700

APARTMENTS

(1030) S ATHOL 600 E East 18th St., OAKLAND; three-story 30-room apartments.

Owner—C. H. Morehouse, 176 Athol Ave., Oakland.

Architect—None.

Contractor—C. W. Leekins, 176 Athol Ave., Oakland. \$28,000

DWELLING

(1031) 1655 84th AVE., OAKLAND; one-story 4-room dwelling.

Owner and Builder—Johannah A. Sachan, 1655 84th Ave., Oakland.

Architect—None. \$1000

SERVICE STATION

(1032) SE COR SEVENTH Street & West, OAKLAND; one-story steel service station and comfort station.

Owner—Charles L. Milacek, 1617 West St., Oakland.

Architect—None.

Contractor—Dyer Const. Co., 701 Ray Bldg., Oakland. \$3000

DWELLING

(1033) NO. 1430 ADDISON ST., BERKELEY. One-story 3-room stucco dwelling.

Owner—Geo. Kemp, 1201 Bancroft, Berkeley.

Architect—None. \$1000

REPAIRS

(1034) NO. 2204 SHATTUCK AVE., BERKELEY. Repairs.

Owner—Whitcotton Hotel, Premises.

Architect—None.

Contractor—East Bay Sheet Metal Works, 1101 Market St., Oakland. \$1500

OFFICE

(1035) NO. 1691 UNIVERSITY AVE., BERKELEY. All rock office.

Owner—W. S. Thomas, 243 Colusa St., Berkeley.

Architect—None. \$1000

DWELLING

(1036) NO. 2810 WEBSTER ST., BERKELEY. One-story 5-room concrete dwelling.

Owner—J. F. Whalen, 324 Warwick St., Oakland.

Architect—None.

Contractor—E. M. Williamson, 3721 Allendale Ave., Oakland. \$4000

DWELLING

(1037) 986 EUCLID AVE., BERKELEY; two-story 8-room dwelling.

Owner—A. C. Richards, 1865 San Pedro Ave., Berkeley.

Architect—E. L. Snyder, 2102 Addison St., Berkeley.
Contractor—H. K. Schulz, 311 Mendocino Ave., Berkeley. \$10,000

WAREHOUSE
(1038) 700 ASHBY AVE., BERKELEY; class C warehouse and garage.
Owner—Seaside Oil Co., 700 Ashby Avenue, Berkeley.
Architect—None.
Contractor—The Austin Co. of California, 720 Ray Bldg., Oakland. \$6500

DWELLING
(1039) 647 SAN LUIS ROAD, BERKELEY; two-story 7-room dwelling.
Owner and Builder—David Kesti, 2217 Browning St., Berkeley.
Architect—None. \$5600

REPAIRS
(1040) 3071 E 14th ST., OAKLAND; repairs.
Owner—Derby Estate, Central Bank Bldg., Oakland.
Architect—None.
Contractor—J. B. Petersen, 4021 Agua Vista, Oakland. \$2000

DWELLING
(1041) 1459 EXCELSIOR AVE., OAKLAND; 1-story 6-room dwelling.
Owner & Builder—John Fleming, 4261 Suter St., Oakland.
Architect—None. \$4000

ALTERATIONS
(1042) 2118 25th AVE., OAKLAND; alterations and addition.
Owner—Mary Jensen, 2029 Berkeley Way, Oakland.
Architect—None.
Contractor—N. B. Anderson, 2023 Delaware St., Berkeley. \$1000

REPAIRS
(1043) 2258 E 21st ST., OAKLAND; repairs.
Owner—M. Sanders.
Architect—None.
Contractor—J. B. Petersen, 4021 Agua Vista Ave., Oakland. \$1000

GARAGE
(1044) E CHESTNUT ST. 250 S intersection San Pablo Ave., OAKLAND; one-story tile garage.
Owner—East Bay Hotel Corp., 3501 San Pablo Ave., Oakland.
Architect—Mr. Cooley, Builders' Exchange, Oakland.
Contractor—Sommarstrom Bros., 2924 San Pablo Ave., Oakland. \$6500

ADDITION
(1045) OAKLAND AIR PORT; addition to hangar.
Owner—Port of Oakland.
Architect—None.
Contractor—Strehlow & LaVoce, Neptune Beach, Alameda. \$2248

BUILDING CONTRACTS

Alameda County

No	Owner	Contractor	Amt.
145	Milacek	Dyer	4280
146	University	Anderson	4500

SERVICE STATION
(145) SE SEVENTH and West Sts., Oakland; general construction on service station.
Owner—Chas. L. and Fanny Milacek.
Architect—None.
Contractor—The Dyer Const. Co., 1924 Broadway, Oakland.
Filed Aug. 18, '30. Dated May 16, '30.
On completion \$3000
30 days after completion 640
60 days after completion 640
TOTAL COST, \$4280
Limit, 30 days.

SINKS & FURNITURE
(146) CAMPUS of the University of California, Berkeley; installing

sinks and sink replacements in the Laboratory Equipment and furniture in the Life Science Bldg.
Owner—The Regents of the University of California, Berkeley.
Architect—W. P. Stephenson, Engineering Division, University of California, Berkeley.
Contractor—Anderson Company, 1531 E 20th St., Los Angeles.
Filed Aug. 19, '30. Dated Aug. 16, '30
On completion 75%
Usual 35 days 25%
TOTAL COST, \$4500
Bond: Labor and Material, \$2250; Performance, \$2250. Surtitles, Hartford Accident & Indemnity Co. Forfeit, \$10 per day. Limit, 130 days. Spec. filed.

COMPLETION NOTICES

Alameda County

Recorded	Accepted
August 13, 1930—LOT 275, Montclair Highlands, Oakland. Jeannette G Guilford to G C and F E Warn.....	August 5, 1930
August 13, 1930—W PIEDMONT Ave 140 ft south of Dwight Way, Berkeley. Geor Auer to K J Henning.....	August 11, 1930
August 13, 1930—W PIEDMONT Ave 190 ft south of Dwight Way, Berkeley. Mia M Henning to K J Henning.....	Aug. 11, 1930
August 13, 1930—LOT 9 BLK K, East Piedmont Heights, Oakland. J L Bowers to M Schwind.....	July 21, 1930
August 18, 1930—LOT 308 BLK R, Fernside Tract, Alameda. John H Mouthrop to A J Yerrick.....	August 18, 1930
August 19, 1930—SW FOURTH and Cedar Sts, Berkeley. Pacific Paint & Varnish Co to Hecht & Wight.....	August 14, 1930
August 19, 1930—LOT 270, Unit No 2 Avenue Terrace, Oakland. O W Johnson to whom it may concern.....	August 18, 1930
August 18, 1930—445-447 44th Street. Nellie E Brown to J R Brown.....	August 10, 1930
August 18, 1930—SE FIFTH AVE and Montana St, Oakland. J E Anderson to The Dyer Const Co.....	August 9, 1930
August 15, 1930—LOT 222 and Ptn Lot 220, Terminal Junction Tract, Albany. Sadie Hildebrand to whom it may concern.....	Aug. 15, 1930
August 16, 1930—LOT 120 and Ptn Lot 119, Hovenscourt Addition, Oakland. Clara Zins to Leo Zins.....	August 14, 1930
August 15, 1930—PTN LOTS 22 and 23, Blk 1, Martin Kellogg Pkwy, Berkeley. Mrs Eliza M Howell to W L Glasgow.....	August 15, 1930
August 15, 1930—1504-06 TENTH ST, Berkeley. Bertel Mork to whom it may concern.....	July 1, 1930
August 14, 1930—LOT 5 BLK N, Excelsior Heights, Oakland. R A and Margaret E Boydston to J S Berovich.....	August 11, 1930
August 13, 1930—LOT 1 BLK 11, Eastlawn, Oakland. D Ben Replogle to R Beadell and Geo J Lane.....	August 8, 1930
August 13, 1930—LOT 1 BLK 11, Eastlawn, Oakland. D Ben Re-	

plogle to R Beadell and Geo J Lane..... August 8, 1930
August 13, 1930—PTN LOT 20 BLK 11, Anspacher Tract, Hayward. F E and M Bernice Blincoe to C O Blincoe..... August 12, 1930
August 13, 1930—LOTS 25 and 29 Blk 25, Map No 6 of Regents Pk, Albany. Emily V Holtkamp to whom it may concern..... August 12, 1930
August 13, 1930—PTN LOT 12, Ellsworth Tract, Berkeley. Gamma Phi Beta Hall Assn to C O Bradhoff..... August 11, 1930
August 13, 1930—LOT 32 BLK 12, Lakeshore Highlands, Oakland. Charles E Bardwell, Jr to whom it may concern..... August 13, 1930
August 13, 1930—LOT 5, Grand Oak Tract, Alameda. Walter H Anderson to whom it may concern..... August 8, 1930
August 13, 1930—1175 ARCH Street, Berkeley. Agnes M Solomon to Curtis Wright..... August 12, 1930

LIENS FILED

ALAMEDA COUNTY

Recorded	Amount
August 18, 1930—PTN LOT 34, Map No 2 of the Glen Echo Tract, Oakland. Axel Sommarstrom, \$2610.85; A K Goodmanson, \$153, to John Vallance and Weeks Const Co.....	
August 16, 1930—LOT 45, Unit C, Oak Knoll, Oakland. Leroy Olson Co vs Ivan E and Margaret A Kohlhoff and Gerald W McPherson.....	\$103.50
August 16, 1930—PTN LOT 34, Map No. 2, Glen Echo Tract, Oakland. H E Lansing vs John and James Vallance and R G Weeks.....	\$52.12
August 16, 1930—2425-2427 ELLSWORTH ST., Berkeley. El Cerrito Wrecking Co vs B E Priem.....	\$219.25
August 16, 1930—PTN LOTS 34 & 41, Map No. 2, Glen Echo Tract, Oakland. J W Pearson Hardware Co vs John and James Vallance, and R H Weeks Constr Co.....	\$33.37
August 15, 1930—611 32nd ST, Oakland. Willey T Vaughn vs A J Rosel.....	\$1082.25
August 15, 1930—PTN LOT 4 Blk 25 map Melrose Heights, Oakland. Churchill Title Co vs Harry M and Clara M Hart, and J J Walsh.....	\$74.53
July 15, 1930—LOT F-79, Fairview Estates, Oak Knoll, Oakland. Clifton Davidson vs Mary Sulprizio and Henning Carlson.....	\$450
August 15, 1930—PTN LOT 34, map No 2 of Glen Echo Tract, Oakland. Berkeley Building Materials Co vs John Vallance, Axel Sommarstrom and Weeks Const Co.....	\$500
August 14, 1930—W LINE FIFTH ST 138 ft 6 inches S of Santa Clara Ave, Alameda. W F Garrett vs Garrett Mill & Lumber Co vs Geo Temple and E J McCord.....	\$63.78

RELEASE OF LIENS

ALAMEDA COUNTY

Recorded	Amount
August 12, 1930—LOT 15 BLK 9, Northbrae Addn, Berkeley. Ber-	

Member Insurance Brokers' Exchange

FRED H. BOGGS
INSURANCE
490 GEARY STREET

Phone FRanklin 9400

San Francisco

tel Mork to Patricia M and B T Edmons and Millar White.....\$180
August 13, 1930—1061 MONTEREY Ave, Berkeley, Markus Hardware Co to D D and Patricia Mae Edmons and Millar White.....\$56.20
August 15, 1930—PTN LOT 34 BLK 957, map No 2, Glen Echo Tract, Oakland, Berkeley Building Materials Co to John Vallance, Axel Sommarstrom, Weeks Const Co.....\$500
August 14, 1930—N CALANDRIA Ave in the unfilled ptn of the Oak Knoll Tract, Oakland, Zenith Mill & Lumber Co to Tom and Edythe L King, Henning Carlson.....\$273.38
August 12, 1930—PTN LOT 15 BLK 9, Northbrae, Berkeley, E K Wood Lumber Co to Patricia Mae and B T Edmons and Millar White.....\$118.72
August 12, 1930—PTN LOT 15 BLK 9, Northbrae, Berkeley, Chicago Lumber Co of Washington to D D and Patricia Mae Edmons and Millar White.....\$183.56

BUILDING CONTRACTS

SAN MATEO COUNTY

DWELLING

LOT 1 BLK 9, Eagle Hill, San Mateo. All work for moving dwelling and erecting 4-room dwelling. Owner—R. L. Sanderson, Redwood City. Architect—B. Norburg, 832 Morrell St., Burlingame. Contractor—Harry C. Yates, Menlo Park. Filed Aug. 8, 1930. Dated —. Roof on\$920
Plastered 920
Completed 920
Usual 35 days 920
TOTAL COST, \$3680
Bond, \$1840. Surety, Glens Falls Indemnity Co. Limit, 60 working days. Forfeit, none. Specifications only filed.

PAVING

AT SCHOOL GROUNDS, San Mateo. All work for paving and grading. Owner—San Carlos Grammar School District. Architect—E. L. Norberg, 580 Market St., San Francisco. Contractor—W. O. Tyson, 42 Jefferson St., Niles. Filed Aug. 7, '30. Dated Aug. 5, '30. When completed\$ 832
3 days after 1000
TOTAL COST, \$1832
Bonds (2) \$916. Surety, Glens Falls Indemnity Co. Limit, 45 working days. Forfeit, \$3. Plans and specifications, none.

RESIDENCE

HILLSBOROUGH. All work for two-story frame and stucco residence and garage. Owner—Mrs. Frances H. M. Breeze, Redhampton, Hillsborough. Architect—Willis Polk & Co., 277 Pine St., San Francisco. Contractor—A. F. Mattock et al, 212 Clara St., San Francisco. Filed Aug. 13, '30. Dated Aug. 11, '30. As work progresses.....
TOTAL COST, \$14,020.70
Bond, \$14,020.70. Surety, Indemnity Insurance Co. of North America. Limit, Nov. 30, 1930. Forfeit, none. Plans and specifications filed.

ADDITION COLLEGE OF NOTRE DAME, Belmont. Two-story reinforced concrete addition to college. Owner—College of Notre Dame, Belmont. Architect—John J. Donovan, et al, 1916 Broadway, Oakland. Contractor—Hugh H. MacDonald, et al, San Carlos.

Filed Aug. 7, '30. Dated Aug. 6, '30. Progress payments75%
Usual 35 days25%
TOTAL COST, \$37,660
Bond, \$18,830. Sureties, Central West Casualty Co. Forfeit, \$50 per day. Limit, Nov. 20, 1930. Plans and Spec. filed.

STORES & FLATS

LOT 19 BLK 128, South San Francisco; two-story frame (2) stores and (2) flats. Owner—Marco Capital, South San Francisco. Architect—None. Contractor—Casimiro Costa, So. San Francisco. Filed Aug. 15, '30. Dated Aug. 14, '30. Started\$2750
Roofed 2750
Completed 2750
Usual 35 days 2750
TOTAL COST, \$11,000
Bond, \$5500. Sureties, E. J. Rodondi and Federico Rozzi. Limit, 6 months. Plans and Spec. filed.

BUILDING PERMITS

SAN MATEO

RESIDENCE, \$5000; Lot 11 Blk H, No. 1516 Palm Ave., San Mateo; owner, Geo. B. Benoit, 1029 5th Ave., San Mateo; contractor, Wallace Waterhouse, 718 No. El Camino, San Mateo.
RESIDENCE, \$4000; Lot 57, North Claremont, San Mateo; owner and contractor, Daniel J. McDonald.
RESIDENCE, \$7000; Lot 44 N-idaho St., San Mateo; owner, J. L. De Venelli, 134 Elm St., San Mateo. contractor, E. W. Howard.
RESIDENCE and garage, \$9000; N 59 ft. Lot 175, No. 605 Dorchester St., San Mateo; owner and contractor, Allan McIntyre, 416 Highland Ave., San Mateo.
SCHOOL, \$12,000; Lot 8 Blk P, B St., San Mateo; owner, C. Allen Tjader 172 2nd Ave., San Mateo; contractor, Lengfeld & Olund, 145 El Camino, San Mateo.
DWELLING, \$4000; Lot 265, No. 1242 Pine St., San Mateo; owner and contractor, J. E. Bale, 805 Highland Ave., San Mateo.
DWELLING, \$4000; Lot 269, Pine St., San Mateo; owner, R. and W. Chapman; contractor, J. B. Rhodes, 110 Fulton Ave., San Mateo.

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded Accepted
August 13, 1930—LOT 71 BLK 800, Peninsula Manor. John L. Debenedetti to E D Soward.....Aug. 7, 1930
August 14, 1930—LOT Q and ptn lots 14 and 15 Blk 19, Baywood; Lot R and ptn Lot 15 Blk 19, Baywood. Busch & Johnson to whom it may concern.....Aug. 13, 1930
August 14, 1930—PART BLOCK 35, Eastern Addn, San Mateo. Jean Hill to Frank Boring.....Aug. 14, 1930
August 16, 1930—LOT 3 Middlefield Park. Phillips G Schmidt to whom it may concern.....
August 16, 1930—LOT 15 BLK 2, Burlingame Shore Land Co. L M Hager to whom it may concern.....
August 15, 1930—LOT P Parts Lots 13 and 14 Blk 19, Baywood. Buschke & Johnson to whom it may concern.....
August 15, 1930—LOT 3 Part Lot 4 Blk 36, Central Park. Louis Foss to whom it may concern.....
August 13, 1930—N LINE 16th Ave San Mateo. G H Hansell to whom it may concern.....August 12, 1930

August 6, 1930—NE COR POPLAR and C Sts, San Mateo. San Mateo Assoc for the Prevention of Tuberculosis to Jos Grimes.....July 23, 1930
August 6, 1930—LOT 21 BLK 17, Vista Grand. Flomena Facchetti to Carl Carlson.....Aug. 1, 1930
August 5, 1930—LOT 27 BLK 2A and Lots 13 and 14 Blk 3A, Aragon. Meyer Bros to whom it may concern.....July 31, 1930
August 5, 1930—LOTS 43, 44 and 45 Blk 1, San Bruno. Jesse D Gaudian to whom it may concern.....
August 5, 1930—RESERVOIR, Menlo. Bear Gulch Water Co to Thermotite Const Co.....July 31, 1930
August 5, 1930—LOT 14, Lexington Park. Julius Berendsen to whom it may concern.....
August 5, 1930—LOT 14 BLK 7, San Mateo Villa Park. Robtr Mullin, et al to whom it may concern.....August 1, 1930
August 5, 1930—NW COR CALIFORNIA and Broadway Sts, Burlingame. Associated Oil Co to W H Baff.....July 31, 1930
August 7, 1930—LOT 18 BLK B, Oak Grove Park. Patrick Dunne to whom it may concern.....Aug. 2, 1930
August 7, 1930—PART LOT 6, Eagle Hill. H W Houghman to whom it may concern.....August 7, 1930
August 9, 1930—HIGHWAY, San Francisco to South San Francisco. State of California to H W Rohl Co.....August 4, 1930
August 9, 1930—LOT 3A, Bowle Estate. Thomas A Cavanagh to whom it may concern.....Aug. 9, 1930
August 11, 1930—ATHERTON. Jas Artino to whom it may concern.....August 4, 1930

LIENS FILED

SAN MATEO COUNTY

Recorded	Amount
August 9, 1930—LOT 28 BLK 21, Belmont. San Carlos Feed & Fuel Co vs Davenport Realty Co	\$372.80
August 6, 1930—LOTS 8 and 9 Blk 3, Central Park. Gray Thornton Lumber Co vs Carrie I Driver	\$164.86
August 6, 1930—WOODSIDE. Merner Lumber Co, \$263.20; Progress Lumber Co, \$936.10, vs W H Hendricks	
August 6, 1930—PART LOT 314, San Mateo. City Homestead, Progress Lumber Co vs Eber Davis	\$24.66
August 5, 1930—LOT 12, Middlefield Park. Palo Alto Lumber Co, \$431.59; D T Lawson, et al, \$129; G H Casey, \$280; Marcel Leonti, \$110 vs P H Banfield	
August 5, 1930—LOT 22, Middlefield Park. D A Lawson, et al, \$270.55; Steve Anderson, \$126.25, vs P H Banfield	
August 5, 1930—LOT 21 Middlefield Park. J G Lawson, \$176; Palo Alto Lumber Co, \$578.53, vs P H Banfield	
August 8, 1930—LOT 22, Middlefield Park. G H Casey et al vs P H Banfield	\$412
August 8, 1930—LOT 28 BLK 21 Belmont. Wm Davis vs Wm J McKillop et al	\$47.50
August 9, 1930—LOT 22, Middlefield Park. Acme Glass Co vs P H Banfield et al	\$479
August 11, 1930—WOODSIDE. Wm Heidenrich vs Albert M Palmatg	\$1048.75
August 11, 1930—LOT 28 Blk 21, Belmont. J A Gaffigan vs W J McKillop et al	\$269
August 6, 1930—WOODSIDE. Gray Thornton Lumber Co vs W H Hendricks et al	\$505.80
August 13, 1930—LOT 12, Middlefield Park. \$281.83; lot 21, Middlefield Park, \$352.05; lot 22, Middlefield Park, \$106.17. Merner Lumber Co vs P H Banfield, et al	

August 14, 1930—LOT 36 BLK B, Southern Hillside Unit, Harry Rodgers, \$891; Shirley Baker, \$170, A Pudsey, \$200; C Downall, \$64.25, vs Frederick A Pummer, et al.....

August 14, 1930—4.13 ACRES in Wondside, Peninsula Bldg Material Co vs W H Hendricks.....\$75.25

August 14, 1930—5.13 ACRES AT Wondside, Newman Bros vs W H Hendricks.....\$207.50

August 15, 1930—LOT 22, Middlefield Park, H J Debrles vs Peter H Hanfield.....\$165.20

August 16, 1930—LOT 6 East Oro, vs San Carlos Feed & Fuel Co, \$323.95; Sunset Lumber Co, \$285.36; Tilden Lumber Co, \$460.10; Redwood City Hardware Co, \$102.15, vs James C Sommerville, et al

RELEASE OF LIENS

SAN MATEO COUNTY

Recorded	Amount
August 7, 1930—LOCATION OMITTED, Progress Lumber Co to C F Magne.....	
August 9, 1930—LOCATION OMITTED, H E Casey Co to Louis Glast.....	
August 11, 1930—LOCATION OMITTED, Win Chas Taffe to whom it may concern.....	\$175

BUILDING PERMITS

SAN JOSE

RESIDENCE, 5-room frame, \$4000; Davis St. near Chapman, San Jose owner, Benj. Quimet, 655 Riverside St., San Jose.

RESIDENCE, 5-room frame, \$3000; 31st St. near St. James, San Jose; owner, G. Bonnet, 37 S-Second St., San Jose; contractor, J. P. Henry, 195 N 31st St., San Jose.

ALTER. C. C. business building, \$6360; No. 71 S. First St., San Jose; owner, L. Bloom & Sons Co., 135 S. First St., San Jose; architect, Binder & Curtis, 35 W. San Carlos St., San Jose; contractor, H. A. Bridges, Pine and Lincoln Sts., San Jose.

RESIDENCE, 5-room frame, \$2900; Vermont St. near Stockton St., San Jose; owner, C. Streigel, 454 University Ave., San Jose.

ALTER frame residence, \$1000; No. 347 Asbury St., San Jose; owner, J. Wright, Premises; contractor, Rollie Williams, 1517 Shasta St., San Jose.

AUTO repair shop, Class C, \$3000; Stockton St. near Lenzen, San Jose; owner, P. F. Dorsett, 451 Stockton St., San Jose; contractor, Dyke Walton, 1217 University Ave., San Jose.

BUILDING PERMITS

PALO ALTO

RESIDENCE, frame and stucco, \$8000; No. 1715 Fulton St., Palo Alto; owner, E. M. Lenzen.

RESIDENCE, frame and stucco, and garage, \$6000; 1360 Emerson St.; owner, Dale H. Nichols.

RESIDENCE, frame and stucco, \$6,000; 2399 Emerson St.; owner, A. W. Iloy, 1557 Waverly, Palo Alto.

ALTERATIONS, interior, \$2,200; 755 Waverly St.; owner, Roman Catholic Church; contractor, Barrett & Hlp, 918 Harrison St., San Francisco.

ROOM, sewing, \$1000; 1519 Byron St.; owner, Fred M. Hanson, 1519 Byron St., Palo Alto; contractor, H. Engman, 2230 Tasso, Palo Alto.

RESIDENCE, frame and stucco, \$4,500; 2330 Emerson St.; owner, Robert Neil, 108 Burrows, San Francisco.

BUILDING PERMITS

REDWOOD CITY

DWELLING, frame, and garage, \$6590 335 Hudson St.; owner, Charlotte P. Bauer; contractor, C. M. Hinds, 1024 James, Redwood City.

DWELLING, frame, and garage; move present dwelling to rear of lot, \$3,800; 203 Jackson Ave., 714 Adams St.; owner, R. H. Sanderson; contractor, H. C. Yates, San Benito and Atherton.

DWELLING, frame, and garage, \$3,000; 1015 Iris St.; owner and builder, F. F. Balliett.

DWELLING, frame, and garage, \$2,000; 1423 Jefferson Ave.; owner & contractor, W. M. Benard.

DWELLING, frame, and garage, \$10,000; 937 Hopkins Ave.; owner and builder, H. E. Bourquin.

DWELLING, frame, and garage, \$7,000; 121 Woodsworth Ave.; owner Earl H. Thompson, 542 S 24th St., Richmond; contractor, W. T. Pierce.

DWELLING, frame, and garage, \$3,000; 1548 Brewster Ave.; owner & builder, J. Casaretto, 244 Finger, Redwood City.

DWELLING, frame, and garage, \$3,000; 561 Madison St.; owner and builder, G. and S. Moncreiff.

DWELLING, frame, with attached garage, \$4000; 1335 Jefferson Ave. owner, W. E. Griffin; contractor, S. Goss.

DWELLING, 2-story frame, \$11,000; 946 Durlston Road; owner and builder, C. C. Pritchard.

DWELLING, frame, 6-room, bath & garage, \$6500; 335 Hudson Street; owner, Charlotte P. Bauer; contractor, C. M. Hind.

ALTERATION & addition, \$1000; 1612 Union Ave.; owner and builder, J. H. Robinson, 135 E 7th St., Redwood City.

CHURCH, frame, \$11,000; 401 Hudson St.; owner, First Baptist Church, Redwood City; contractor, J. W. Cabbage, Military Way, Palo Alto.

DWELLING, frame, 8-rooms, 3 baths, garage, \$8000; 815 Arlington, Redwood City; owner and builder, I. D. Northcut, 867 38th Ave., Redwood City.

COMPLETION NOTICES

SANTA CLARA COUNTY

Recorded	Accepted
August 9, 1930—LOT 8 El Abra Ct. Edw II Schutter, et al to whom it may concern.....	July 31, 1930
August 9, 1930—LOTS 8 and 9 Eastmorland Park, H N Traxler to whom it may concern.....	Aug. 9, 1930
August 9, 1930—LOT 11, Willow Home, Huzh E Bayles to whom it may concern.....	August 9, 1930
August 11, 1930—SEVEN ACRES adjacent E line Los Gatos Rancho, Antonio Severo to whom it may concern.....	August 4, 1930
August 11, 1930—LOT 14 BLK 82 Breck Subdiv. Fountain P Grover to whom it may concern.....	August 9, 1930
August 11, 1930—LOT 12 BLK 11, Rose Lawn, Minnie E Rebello to whom it may concern.....	August 8, 1930
August 12, 1930—LOT 1 B 5 Los Altos Park, Merle N Job to whom it may concern.....	August 7, 1930

LIENS FILED

SANTA CLARA COUNTY

Recorded	Amount
August 11, 1930—LOT 13 BLK 12, Evergreen Park, F M Rohl, \$17; A C Edmonds, \$49.50, vs A W Haasch et al.....	
August 12, 1930—S. SAN FERNANDO	

St 218 ft W 1st St W 57 x S 150.26 ft and right of ways, San Jose George A Kelly vs San Jose Hdwe Company.....\$331

BUILDING PERMITS

RICHMOND

COTTAGE, 5-room frame and plaster and detached garage, \$3000, W 8 41st bet. Moosvelt and Clinton, owner and builder, J. M. Petty, 339 Bancroft Way, Berkeley.

COTTAGE, 5-room frame and plaster and detached garage, \$4500; W S 32nd bet. Esmond and McBryde, owner and builder, J. W. Forbes, 841 Union St., Oakland.

COTTAGE, 5-room frame and plaster and detached garage, \$3300, S S McBryde bet. 34th and 35th Sts., owner and builder, E. G. Anderson, 329 E 14th St., Oakland.

COTTAGE, 5-room frame and plaster and detached garage, \$4000; N S Clinton bet. McLaughlin and Lassen; owner and builder, N. E. Anderson 3000 Barrett St., Richmond.

COTTAGE, 5-room frame and plaster and detached garage, \$3500; E S Ventura bet. Dixcup and Sierra; owner and builder, J. Lindquist, 2334 McKinley Ave., Berkeley.

COTTAGE, 4-room frame and plaster and garage, \$2750; N S Gaynor bet. 24th and 26th; owner and builder, C. R. Layton, 3817 Telegraph Ave., Oakland.

BUILDING CONTRACTS

MARIN COUNTY

RESIDENCE & GARAGE
ROSS; general construction on residence and garage.
Owner—Myra Taft, Brown & Philip. Architects—Albert J. Evers and Geo. Fashley, 525 Market St., San Francisco.
Contractor—Frank Howard Allen, Inc. San Anselmo.

Filed and Dated	
When frame is up	\$6250
When coat of plaster is on	6250
When completed	6250
Usual 35 days	6250
TOTAL COST, \$25,000	
Bond, \$12,500. Sureties, Robt. Fasken and Chas. T. Lund. Limit, 120 working days. Plans and Spec. filed.	

COMPLETION NOTICES

MARIN COUNTY

Recorded	Accepted
August 13, 1930—LOCATION OMITTED, Imogene and David Walker to J Dawson.....	August 14, 1930
August 14, 1930—LOCATION OMITTED, Joseph Varsi to A De Retti.....	August 13, 1930
August 15, 1930—SAUSALITO, Ernest W Jackson to whom it may concern.....	August 12 1930

BUILDING CONTRACTS

CONTRA COSTA COUNTY

COTTAGE
CROCKETT Meter Station, Crockett, California; furnishing material and construction of two-story stucco cottage.
Owner—Standard Oil Company.
Architect—Not Given
Contractor—Karl S. Koller, Crockett.
Filed Aug. 14, 30, Dated Aug. 8, 30.
Monthly Payments of

Usual 35 days	25%
TOTAL COST, \$5963	
Bond, \$5963. Sureties, Glens Falls Indemnity Company of Glens Falls, N. Y. Limit, 50 calendar days from date. Plans and Spec filed	

COMPLETION NOTICES**CONTRA COSTA COUNTY**

Recorded	Accepted
Aug. 15, 1930—LOT 16 BLK 11, Alvarado Tract, Richmond. L. Ackerman to Carl Nelson	Aug. 14, 1930—Portion RANCHO Los Medanos, containing 7.39 ac. California Water Service Co (a corp) to Pelton Water Wheel Co (a corp)
Aug. 14, 1930—LOT 4 BLK 17, Richmond Traffic Center. A J Timmons to Norman E Anderson.	Aug. 5, 1930

LIENS FILED**CONTRA COSTA COUNTY**

Recorded	Amount
August 16, 1930—IN SE ¼ of SEC 33, 1N 3E, Alwin Wilfert vs Harold Wood	\$750
August 16, 1930—THREE PARCELS in Rancho Las Juntas. Diamond Match Co vs Harriet La Verne Irby, Olin J Irby, et al	\$96.17
Aug. 18, 1930—LOT 5 BLK N, Town of Crockett. Phillip V Caccavo vs Karl S Koller and J Liefheid	\$265.77

COMPLETION NOTICES**MONTEREY COUNTY**

Recorded	Accepted
Aug. 16, 1930—LOTS 3 AND 4 and W 1/25 Villa Subdivision, Monterey. W E and Mary B Olmsted to E H Sundberg	Aug. 12, 1930
Aug. 19, 1930—LOT 10 S 5 FT. LOT 9 BLK 4, Geil, Lang & Kessler Addition to City of Salinas. Guy H Abbott to whom it may concern	Aug. 19, 1930

LIENS FILED**MONTEREY COUNTY**

Recorded	Amount
Aug. 13, 1930—SW LOT 50 Amended Map of Pebble Beach, also being Portion of El Pesadero Rancho, Monterey. Stalder-Hinkelbein Co vs J W Perry	\$3794.50

RELEASE OF LIENS**MONTEREY COUNTY**

Recorded	Amount
Aug. 14, 1930—N ½ LOTS 12 AND 13 Blk 15, Map of Monterey Heights, Monterey. John E Eckett to Lewis J and Frank C Wells and Wade Halsted	\$327

BUILDING CONTRACTS**SONOMA COUNTY**

RESIDENCE
WHITO RANCHO, situated about five miles SW of Healdsburg; 1-story brick veneer residence.

Owner—F. L. Dowsett.
Architect—Erle J. Osborne, 822 Balboa Bldg., San Francisco.
Contractor—A. M. Hildebrandt, 406 4th St., Santa Rosa.

Filed Aug. 13, '30. Dated, Aug. 6, '30.	
Framing up and roof on	\$3200
Roughplaster completed	3200
Completed and accepted	3200
Usual 35 days.	3200
TOTAL COST, \$12,800	
Bond, \$12,800. Sureties, Fidelity and	

Casualty Co. of N. Y. Limit, 90 days from Aug. 11, 1930. Plans and Spec. filed.

COMPLETION NOTICES**SONOMA COUNTY**

Recorded	Accepted
August 13, 1930—SALMON CREEK, Lot 2 Blk B, McChristian's Sub. Clara and A P Owens to C A Davidson	July 28, 1930
August 14, 1930—2½ MILES North of Geyserville. L Zanzi to Ernest Lombardi	August 14, 1930

BUILDING CONTRACTS**SAN JOAQUIN COUNTY**

SERVICE STATION
LOT 11 BLK 116 east of Center St. southwest corner of California and Flora Sts., Stockton; all work on service station, super-building, pumps, etc.

Owner—The Texas Co., 401 N San Jose, Stockton.
Architect—None.
Contractor—J. A. Allen, 525 E Market St., Stockton.
Filed and Dated
Payments Not Given.
TOTAL COST, \$6785.23
Specifications filed.

COMPLETION NOTICES**SAN JOAQUIN COUNTY**

Recorded	Amount
August 15, 1930—EAST HALF LOT 420, Burkett Gardens. Fillmore C Marks, J F Shepherd and Mr and Mrs John C Meyers to whom it may concern	August 11, 1930
August 15, 1930—LOTS 6 and 7, Tuxedo Country Club Farms, Stockton. Mr and Mrs Barton J Powell to Emile Merlo	Aug. 12, 1930

BUILDING PERMITS**SACRAMENTO**

RESIDENCE, duplex, \$7500; 410-412 Santa Ynez Way on lot 74 McKinley Blvd tract; owner and builder, John Simmons, 2521 51st Street, Sacramento.

BUILDING PERMITS**FRESNO**

ALTERATIONS and additions, \$9000; 1039 Fulton St.; owner, Eastern Outfitting Co.; contractor, J. F. Farr & Son, 1296 Linden Street, Fresno.

ALTERATIONS and additions, \$1000; No. 1721 North Van Ness Ave., Fresno; owner, Chas. Emerzian.

DWELLING, \$3000; 1419 San Pablo Ave.; owner, Fred Gross, 504 Cornell St., Fresno; contractor, same.

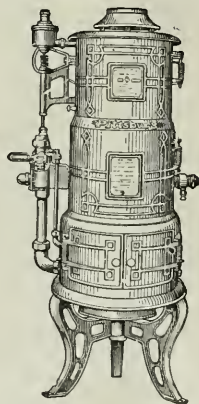
SHED, \$3300; Florence and Chestnut Sts.; owner and contractor, Maister Bros., 2244 Railroad, Fresno.

COMPLETION NOTICES**FRESNO COUNTY**

Recorded	Accepted
Aug. 19, 1930—LOTS 17 AND 18 Blk 8, Dean Park, Fresno. K Egoyan	August 15, 1930

LIENS FILED**FRESNO COUNTY**

Recorded	Amount
Aug. 19, 1930—LOTS 39 AND 40 Blk 1, Englewood Addition. The Dolan Co vs Paul C Manooagian et al	\$109
August 15, 1930—LOTS 12 and 13 Blk 58 E Fresno. J D Halstead Lumber Co vs G H Schwabenland et al	\$2350



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SAN FRANCISCO, CALIF., AUGUST 30, 1930

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Thirtieth Year — No. 35



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Contractor Is Liable For Defective Building

Generally speaking, a contractor who fails to construct a building according to plans and specifications is liable in damages to the owner. The amount of the damages depends entirely upon the extent of the defective construction, says The Contractor.

For instance, in *Mahan v. Springer*, 283 Pac. 667, it was shown that an owner and a contractor entered into a contract by the terms of which the latter agreed to construct a concrete building according to plans and specifications for \$40,500.

After completion of the building the owner filed suit to recover damages from the contractor alleging that the concrete in the building had not been properly mixed; that the water-proofing provided for in the plans and specifications had not been applied as therein provided; that certain floors had not been laid in accordance with the specifications; that the windows had not been constructed in accordance with the plans; that the painting job was improper; that the glass was not double strength glass as provided for in the contract; and generally the building had been poorly constructed instead of being constructed in accordance with the plans and specifications which called for the erection of a first-class building.

The lower court held the contractor liable for \$2000, the difference in the value of the building as it was constructed and as it should have been constructed according to the plans and specifications. The contractor appealed to the higher court which sustained the verdict, and said:

"Where there is a substantial compliance with the contract in cases of this kind, the measure of damages to the owner is what it would cost to remedy these defects; but where there is not a substantial compliance and where, to remedy the defects, it is necessary to tear down and rebuild large portions of the structure, the measure of damages is the difference between the value of the building as constructed and its value if it had been constructed in accordance with the contract."

STRUCTURAL STEEL IN JULY

New orders of fabricated structural steel in July, as reported to the U. S. Department of Commerce by the principal manufacturers were 71 per cent of capacity as compared with orders of 63 per cent of capacity in June, and 91 per cent in July, 1929, 77 per cent in July, 1928, and 91 per cent in July, 1927. Shipments of fabricated structural steel in July represent 76 per cent of the capacity of firms reporting this item as against 75 per cent in June, 79 per cent in July, 1929, 68 per cent in July, 1928, and 68 per cent in July, 1927.

REINFORCING STEEL STANDARD ADOPTED

The California State Chamber of Commerce, through its Statewide Committee on Simplified Practice, has secured the co-operation of the 15 reinforcing steel firms of this State in reducing the 22 sizes and three grades of reinforcing steel to 11 sizes and one grade, effective September 1, 1930, in accordance with the recommendation of the Simplified Practice Division of the U. S. Department of Commerce.

Benefits to be derived from this simplification are stated by Charles M. Gunn, vice-chairman Simplified Practice Committee, State Chamber of Commerce, to be as follows: Reduction in amount of stocks necessary to be carried by steel mills and jobbers; Reduction in the number of sets of rolls to be kept in repair by steel mills; Reduction of the changes of rolls in the steel mills, resulting in a saving of time; Quicker turnover of stock on hand; Maximum promptness in delivery.

In the East, according to a report submitted to the U. S. Department of Commerce by the Industry, average stocks of reinforcing bar distributors have been reduced from 175,000 tons to 61,000 tons, with a resulting release of capital investment totaling \$4,500,000.

By the general adoption of this standard, it is estimated that the 15 reinforcing steel firms in California will carry approximately 7,500 tons of reinforcing steel, which means that \$330,000 less capital will be tied up in inventory per year, as compared to the former practice involving 22 sizes and 3 grades of reinforcing steel. This does not include the saving to the steel mills in inventory or operation, it is stated.

Other projects of simplification that are being undertaken by the California State Chamber of Commerce include: Pole line hardware; Simplified invoice; Bank checks; Common brick; Standard specifications, standard patterns and standard sales agreement for California foundries; Lumber; Warehouse forms; Wooden boxes and containers; Structural steel.

PROTESTS FREIGHT RATE

Pacific Coast Steel Corporation, with headquarters at San Francisco, has filed a complaint with the State Railroad Commission against Southern Pacific Company alleging that defendant carrier collected unlawful charges for the transportation of 181 carloads of steel from South San Francisco to Los Angeles during the last three years. Complainant asks the Commission to award reparation to the amount of the difference between the rate of 25 cents per 100 pounds collected by defendant carrier, and a rate of 21½ cents per 100 pounds as shown in a tariff authorized by the Commission.

Contractor's Release Does Not Stop Sub's Lien, Court Rules

It is important to know that ordinarily the fact that a principal contractor signs a paper releasing the owner from a mechanic's lien does not invalidate the sub-contractor's liens. So held the higher court in *Boulia-Gorrell Co. v. East Coast Realty*, 118 Atl. 28, says The Contractor.

In this case an owner engaged a principal contractor to construct a building. Soon afterward the owner mortgaged his property and the principal contractor signed a release from any mechanic's lien. One of the sub-contractors performed some work and soon thereafter he learned that the principal contractor had signed the release. When the sub-contractor had completed his work he was compelled to file a mechanic's lien to secure payment for his services.

The counsel for the owner argued that knowledge, on the part of the sub-contractor, that the principal contractor had signed the release barred the sub-contractor from obtaining a lien. However, the court held the sub-contractor entitled to a lien, and said:

"The release was not given until the plaintiff (sub-contractor) has partly performed its contract, and there is nothing to show that it had any knowledge of the release before its performance was fully completed. . . In this situation the claim that the lien was lost through Benoit's (principal contractor's) release of his lien is based upon a theory that the plaintiff's (sub-contractor's) lien was derived from and depended upon Benoit's and that whatever Benoit did to invalidate his lien had a like effect upon the plaintiff's. . . To deny the sub-contractor his lien for any other reason than the owner's freedom from debt to the contractor would lead to the singular absurdity that one person might defeat and destroy another person's property interests at his pleasure."

CALIFORNIA IS ACTIVE IN HIGHWAY BUILDING

Highway construction throughout the United States has been increased fully 100 per cent this far this year as compared with 1929, according to Secretary of Commerce Lamont who bases his report on data received from the governors of 35 state awarding highway contracts awarded for the first three months of this year. These amounted to \$114,101,383, as compared with \$50,910,133 in the same period of 1929, a net increase of 124 per cent. California's increase was 181 per cent.

STATE AND NATIONAL ASPECTS OF THE SAFETY CODE MOVEMENT

By P. G. Agnew, Secretary American Standard Association

At the convention of your Association in Toronto last year, Lewis A. DeBlois, Director of the Safety Engineering Division of the National Bureau of Casualty and Surety Underwriters, discussed the "Necessity for Safety Standardization." The discussion of Mr. DeBlois' paper and the increased interest in safety code development work manifested during the past year by several states which heretofore had not been active in this work seem to justify a further discussion of national codes. In this, particular attention will be paid to the relation of national codes to state regulatory work and to the desirability of the State Commissions taking a more active and responsible part in the development of the national codes.

In order to save as much time as possible for the discussion which is to follow, I will not enter into the details of the American Standards Association, under whose auspices the national codes are being developed, or of the functions of the technical committees in charge of the individual codes. I have prepared a statement on this point which, it is hoped, may appear in the proceedings as a part of this paper. I might not be amiss, however, to touch briefly upon the organization of a technical committee and its work of developing a safety code.

A joint technical committee is in charge of each national code. It is made up of representatives of interest broadly classified as follows:

Manufacturers (Makers of equipment)

Employers (Purchasers, owners, users of the equipment)

Employees

Governmental Bodies having regulatory power, or influence over the field in question

Specialists, such as staff representatives of technical societies, consulting experts with no exclusive business affiliation, and college professors

Insurance representatives.

This representation insures that all interests in any way concerned with the project have a voice in its development. It is the same group classification as that which is in general use by states that have been developing safety codes, and has proved satisfactory to them. Generally speaking, individuals on the committee do not serve as individuals but as representatives of national associations, so that the committee is truly national in scope, and the membership of the association, through its official organs, is kept constantly in touch with the development of the project.

It will be noted that state regulatory bodies, such as labor departments, are given a definite place in committee representation. This representation is individual, or through such organizations as the Association of Government Officials in Industry or the International Association of Industrial Accident Boards and Commissions. The policy has been definitely established that any state that so desires, regardless of any representation that it may have through either of the organizations mentioned, may have membership on technical

Paper presented before the Annual Convention of the Association of Government Officials in Industry, at Louisville, Ky., May 22, 1930

committee. The A.G.O.I. now have representatives serving on about twenty technical committees, which indicates that it is the policy of this Association to co-operate very extensively in the development of national safety codes.

The technical committees elect their own chairmen and secretaries and proceed to develop a code that will cover the scope previously laid down. The committee is free to obtain and use any advice that it can get to enable it to complete its work, and in many cases organizes subcommittees composed of persons who are not members of the main technical committee. The final draft of the code is submitted to the entire membership of the technical committee for approval. If approved it is sometimes printed and widely distributed for criticism, and sometimes it is submitted without further delay, through the sponsor body, to the American Standards Association for approval. The ASA takes formal action only when it is satisfied that all interests in any way affected by the code have had ample opportunity to participate in its development, and that the completed document represents a real national consensus.

Example of Safety Code Procedure

As an example of this standardization method of arriving at a national consensus, let us choose a specialized but relatively simple industrial problem—the protection of workmen in the use of grinding wheels.

The work of formulating a safety code on the subject was carried out by a joint committee made up of representatives of all interested groups: the manufacturers, through their national trade association; regulatory bodies having authority over safety matters in the industries, through their national associations; employing groups which are users of grinding wheels, through their trade associations; casualty insurance companies, through their two national organizations; the workmen whom the code is designed to protect, this representation being arranged through the U. S. Department of Labor; national engineering societies; technical bureaus of the federal government; and independent specialists.

In all, seventeen national organizations are represented on the joint committee, which has thirty members. After two years of painstaking work, unanimous agreement upon a complete code was reached. This was not accomplished, however, without encountering some serious difficulties and difference of opinion.

The code covers the general safety requirements to be met in the construction, care, and use of grinding wheels. It is recognized as the authoritative guide to the industry, and is being legally adopted by the various state commissions.

The procedure followed in connection with the development of the code has recently been followed in its re-

vision. Revision was undertaken as a result of information presented to the ASA by an important national trade association, and extensive tests and experiments were made before the committee agreed to include in the revised code the results of these investigations. These methods have been perfected as a result of ten years' experience in the development of national safety codes.

A short time ago it was felt that it was time to take stock so as to determine to what extent the work was serving the various groups affected. This stocktaking showed definitely that the national program had become well established; that much excellent work in the development of codes had been done; that some of the codes, such as the Safety Code for Elevators and Escalators, and the Safety Code for Abrasive Wheels, had practically reached the status of a "Bible" in their respective industries; but that much yet remained to be done in furthering the use of completed codes and speeding up the work on the codes in process of development.

A general strengthening of safety code work was considered necessary, and in the main this is being concentrated in the work of two committees. These are the Committee on Promotion of the Use of Codes in Industry, and the Committee on Scope. In general, these two committees will be responsible for the planning, stimulation, and carrying out of methods for bringing codes into general use by making them part of the regular operation of industrial concerns. They will also consider the need for revision, the question of the development of new codes, and the correlation of codes, so that in their published form they may be more effective instruments than would otherwise be the case.

To assist in carrying out this program, a safety engineer was added to the staff on the ASA—a man schooled in safety work in industry, and with an extensive experience in the department of labor of one of the large industrial states.

I have gone into these details in order to emphasize the desire of the ASA to be of service, and to draw forth, either in the discussion or by personal suggestion, your ideas as to how this service may be most effectively rendered.

Regulation Versus Legislation

Some of the states are not permitted by the laws under which they operate to administer safety codes in their accident prevention work. These, and other states which do so by preference, work under direct legislative acts. This situation is one which deserves careful study. It has a vital relation to the national safety code program. The experience of states co-operating in the national safety code work indicates several very definite advantages in the use of the regulatory as compared with the legislative method:

1. Accident prevention work is placed in the hands of a specialized body. It is only proper that those who are confronted daily with the problem of preventing accidents should be entrusted with the duty of preparing the complete plans and putting them

into effect. In legislation, the ultimate decision is necessarily in the hands of a body whose members themselves cannot have an adequate knowledge of the intricacies of the subject with which the legislation deals. Consequently, it not infrequently gets distorted in the larger game of partisan politics.

2

Participation of industry in the development of an accident prevention program is secured. Not only does industry welcome the opportunity to assist in the development of safety regulations, but through this contact it also becomes awakened to the general accident situation and is ready and willing to offer constructive suggestions for the working out of a comprehensive program. I believe that in particularly every case where a state has entered upon an active safety code development program it has eventually instituted a general program covering all phases of accident prevention work.

3

Legislation must be enforced as written. Nowhere do the basic laws of the various states give executive departments the right to decide what sections of the laws shall be enforced.

Regulations, on the other hand, may be enforced in such a way as to meet specific conditions. For example, in the State of New York certain procedure in regard to variations has been established under which the Industrial Board, upon petition, may, of the facts so warrant, make a variation from a particular rule to meet a specific condition in the establishment of the petitioner, which will also apply to all establishments with the same specific conditions. This flexibility of procedure and enforcement secures a maximum compliance without hardship and promotes the goodwill of industry toward the department responsible for safety work.

4

Regulations may be amended or repealed whenever conditions warrant. Experience gained through the enforcement of regulations frequently shows the necessity for changes. Regulations may be revised without difficulty; the law cannot, however, be said of legislation. Legislation is dependent on the whims of the legislature, and several years may pass before it is possible to obtain the amendments needed.

An example of the impracticability of including detailed specifications in legislation is found in certain provisions of the mining law of the state of Pennsylvania. The law in question specifies in some detail how blasting shall proceed. It provides that the hole shall be filled, leaving no air voids. Research in the course of the last few years has shown it to be desirable to have a certain amount of air void, since this "eases off" the explosion, and the danger of falling rocks is thereby reduced. It also results in 2 per cent more salable coal. Here we have a case of a law prohibiting a practice which prevents accidents and is of considerable economic value. If the same condition existed in a safety code, it could be amended without delay, while several sessions of the legislature may pass before the law can be changed.

Value of National Codes

Assuming that it is true that the adoption of regulations by labor departments in accident prevention work is highly desirable, what advantages may be derived from the use of national safety codes as the basis of state regulations? Several very definite points emphasize such

advantages to labor departments that have been engaged in the development of safety codes for some time, and even more, to departments whose budgets do not permit their retaining the staff necessary to carry on such work.

It has been pointed out that regulatory bodies have direct representation on technical committees, and that they are also represented through the Association of Governmental Officials in Industry and the International Association of Industrial Accident Boards and Commissions. As already stated, the former is now represented on about twenty technical committees, and the latter is represented on about thirty. The national safety codes will be prepared in a form acceptable to regulatory bodies; that they will admit of enforcement; and that they may be applied with the least possible friction is assured by such representation. In other words, the provisions of national safety codes are not so drastic that industry would protest their enforcement, nor are they so weak or general that the regulatory body would find it necessary to spend considerable time in redrafting their provisions to render them effective.

The careful selection of the members of the technical committees, particularly as to their experience, is one of the safeguards insuring the correctness of the codes. A very definite effort is made to secure individuals of the widest possible experience for service on the committees. Also, the best literature available is obtained for their use. This point is important particularly to regulatory bodies which, through limitation of funds, may be unable to employ adequate technically trained staffs to conduct the research and investigation necessary to the development of a correct code. The wide distribution of tentative drafts for the securing of criticism, and their reference to regulatory bodies for public hearings, brings to the ASA a wealth of information that is incorporated in the code before the final draft is completed.

The national codes naturally are far from perfect. Like codes developed by individual states, they need amending from time to time in the light of new information, but at the time they are developed, the national codes represent the best in thought and practice.

Another advantage in using national codes lies in the fact that they may be adopted with a minimum of opposition. Any state starting a safety code program is bound to meet with a certain amount of opposition from unformed local industries. Some of them have the misperceived notion that the Department of Labor through the enforcement of the code will operate in such a manner as to cause the industries endless embarrassment and hardship. The organization of the technical committees and the In-

(Continued on page 6)

fluence of national trade associations through their membership on technical committees tend to minimize the possibility of such misunderstanding in regard to individual codes. Most industries that will take the trouble to be represented at public hearings and present their constructive criticism are interested enough in their own self-advancement to be members of national trade associations, and through such associations they receive information concerning the codes which the associations have assisted in developing.

National Codes Insure Uniformity

The Industries have learned that through the co-operative effort of the various groups concerned they may establish national standards that will benefit all the groups affected. This viewpoint, which is becoming more widespread every day, tends largely to remove objections to the adoption of national codes by regulatory bodies.

The adoption of safety codes by the regulatory bodies does not end the service which the ASA is able to render. A definite policy has been established which will enable the ASA to ensure uniformity in interpretation and adaptation of specific requirements of the codes. In some cases, the technical committees are held in part for the purpose of making periodic revisions. In other cases, the main committee is disbanded, and a committee on interpretation is appointed which may be called upon for information concerning the interpretation of specific requirements and practical methods of applying the provisions to specific conditions. This service has not yet been developed to the fullest extent of its possibilities, and such service must be expanded if for no other reason than to obtain the uniformity intended in the establishment of national codes. The use of this service can be of great advantage to labor departments. The administrative knowledge and experience of the various departments using the codes may thus be pooled, and the ASA will become the clearing-house for information on this point.

One of the greatest factors in the accident prevention movement today is the insurance business. Personally, I admire the effort of these organizations. Years of contact with executives of companies engaged in this work have led me to the conclusion that they not only consider it good business but that they are genuinely interested in it as a service to humanity. Every labor department in its enforcement is bound to come in contact with the representatives of insurance companies. Hence the field work of the department using the national codes as a basis for state regulations is greatly simplified through the policy that has been established by the stock and mutual companies of bringing their schedules into conformity with the national safety codes. This means that the labor departments will obtain considerable assistance, both direct and indirect, from the inspection service of the insurance companies in obtaining compliance with the state regulations.

State Cooperation Urged

If time permitted, other advantages in the use of national codes could be presented, but before closing I want to discuss with you another question, namely, the desirability of a more extensive and intimate co-operation of the states in the development of national codes.

In discussing the organization of a technical committee, I mentioned the established policy that regulatory bodies can secure membership on technical committees. The fact is, however, that less than a dozen states have borne the burden of maintaining the labor department point of view in the development of national codes. The representatives of these states have served with fidelity, and I am glad to have the opportunity of publicly thanking them on the part of the ASA for the great service they have rendered in the development of the safety codes that are already recognized as American Standard.

THE OBSERVER

What He Hears and Sees on His Rounds

I am sure that these gentlemen will agree that in rendering this service they have received a fund of information that has been of great value to them. I am also sure that they will agree that the national codes would be stronger than they are if many more of the states would take an active part in their development.

It is realized that inasmuch as the headquarters of the SAS are located in New York, with the result that most of its meetings are held in that city, it is difficult and very costly for many of you to attend the committee meetings. The ASA is so desirous of securing your advice and help that it will welcome your service on the committee by correspondence if you find you cannot attend the meetings in person.

The representatives of your Association serving on code committees will welcome your interest in their work. At present they serve as individuals, and their vote on approval of final drafts of codes represents their individual opinion, and not that of this Association. Your representatives have many times expressed the wish that they could in some way more truly reflect the views of the Association in their work on these committees. May I therefore suggest, in the absence of any definite procedure for instructing your representatives how to vote on the question coming before them, that you indicate to your representatives the fact that your state is interested in the code under consideration, and that you would be glad to be kept informed of the progress of the work.

It is abundantly evident that there is much to be gained in the movement for the prevention of industrial accidents by a far more intimate and active participation of the states in the national safety code program, not merely in the use of the codes in state work, but in directing policies and in the formulation of individual codes. The benefits of such co-operation will accrue to the state officials, to the industrialists, to the insurance companies and technologists, but most of all to the workman himself.

MILLWORK INSTITUTE WILL MEET IN SAN FRANCISCO

The annual meeting of the Millwork Institute of California will be held at San Francisco in November. It was decided at the triennial conference held at Pasadena.

President A. W. Bernhauer of Fresno Planing Mill, Fresno, at the Pasadena meeting, stated the Institute is being managed by the board of directors who are giving their best efforts to the Institute's program.

L. G. Sterett, manager of the service bureau, reported that he had traveled 30,000 miles in the last year in carrying on his work. Five new members were added during the last three months.

James Clynick of the Hammond Lumber Co., Los Angeles, chairman of the committee preparing the new price schedule book soon to be published, explained the schedules which will cover prices for exterior and interior trim, frames of all types, band-sawing, shaping, cabinet, turning and stair work and sand blasting. Other members of the committee are: A. J. Todhunter, Hammond Lumber Co., Los Angeles; George Kaiser, Lannon Bros., Oakland; Carl Koenig, Pacific Mfg. Co., San Francisco; and Clarence Morrison, Pacific Mfg. Co., Los Angeles.

Architects J. C. Austin and Myron Hunt, addressed the Institute praising the work which it is doing to improve and maintain the standard of the millwork.

Foreshadowing a new era of responsibility and stabilization in the construction industry, approved cooperative plans to place the financing of construction more directly upon the financial institutions of the country and to outlaw prevalent credit abuses were announced by the board of directors of the Allied Construction Industries of America at its meeting in Washington, D. C., Aug. 26.

The board completed administrative plans to carry out the program of organized groups of buyers and sellers within the industry to establish sound credit conditions and nurture responsibility by cooperative adherence to standard terms and practices, and is now ready to initiate the work.

In view of the economic importance of the plan to the entire business structure of the nation, members of the board, including Edward J. Harding, Assistant General Manager of the Associated General Contractors of America, Frank Dunning, manager of the National Building Supply Association, and Edward McDonnell, of the Contracting Plasterers' International Association, with H. E. Foreman, secretary of the board, conferred at length with officials of the Department of Justice in charge of Justice in charge of Federal anti-trust law matters.

Members of the board pointed out that credit regulation is more essential to the establishment of responsibility in the construction industry than in any other line of business, but that, due primarily to the reliance placed on the efficacy of the mechanic's lien law and intensive competition, loose and indiscriminate credits have been extended and placed on the responsible contractors in the competitive field. They contend that credit is simply and essentially a loan and that its wide extension within the industry should be sharply curbed and left to the institutions whose business is primarily to finance.

After careful consideration and discussion of all phases of the details which it had worked out, the board announced that it is convinced of the feasibility and propriety of the plan and that there is now no obstacle to its successful operation.

Promotional work in establishing throughout the country local credit bureaus, which are to cooperate on a national basis with the Bureau of Contract Information, Inc., Washington, will be started at once and with such regulations that no one will undertake to assume more liability than he has assets, responsibility will soon become an asset to the construction industry, the board states.

Standard credit terms, applicable to the various construction divisions in each city and including an automatic credit cut-off date, will be developed by the affiliated groups in every locality, with the local credit bureaus being set up to gather and disseminate information as to delinquent accounts, which will be automatically placed upon a cash basis until past due accounts are settled.

Solicitor General Thomas D. Thacher condemned the American bankruptcy law in an address before the 53rd annual convention of the American Bar Association at Chicago, August 21.

He described the law as one "perfectly designed to encourage dis-

honesty and reckless disregard of business integrity on the part of large numbers of people" and outlined what he termed were needed changes in the law.

Relating the results of an investigation in New York he said, "It was obvious that estates were badly administered, with much needless delay and wasteful expenditure of money."

"There was little benefit in the statute for the creditor and the ease with which debtors procured discharge from their debts, without investigation of the cause of their failure, seemed to encourage fraud and dishonesty in trade."

Thacher named, as three purposes which a bankruptcy law should be designed to accomplish, prompt and efficient realization, liquidation and distribution to the creditors of the commercial wreckage of the bankrupt estate; the discharge from their indebtedness of honest debtors, overwhelmed by financial misfortune through no fault of their own, and the prevention of reckless and dishonest practices in trade.

The speaker suggested it might be well for United States attorneys to assume the duties of investigating each bankruptcy and the conduct of each bankrupt.

"Spend Now—Spend Until It Hurts" is the title of a booklet by Glenn Buck, advertising counselor.

"A nation of hoarders is a poor nation always," wrote Buck, addressing producer, distributor and consumer.

"We have much because we have spent much and in the spending we have made a whole nation rich. No howling calamity in Wall Street can possibly do the harm that is bound to come if there is persistent decrease in the nation's spending. A middle-minded economist who counsels cowardly hoarding and bone-headed buying in this crisis is an enemy of the public's welfare—and is your own. If prosperity limps it has been kicked in the shins by those who have more power in their legs than in their heads."

"It is time to be extravagant—within the limits of your means. The surest way to stop other people's spending is to stop spending yourself. The disease is catching and becomes an epidemic. A million men of no faith could wreck heaven itself. Your income depends upon your output. Stop the one and the other will surely diminish."

William Green, president of the American Federation of Labor, said in a statement there had been no increase in unemployment in August, and that this fact probably "foreshadows the fall increase in industrial activity."

"While the decrease in unemployment was only three-tenths of one per cent, and therefore not enough to be apparent from our published figures," Green said, "we feel that even this small improvement is encouraging."

Green said the federation had revised its early figure of 21 per cent unemployment in July to 22 per cent, equalling the high level of the winter.

ALONG THE LINE

BUILDING OFFICIALS ANNOUNCE
PROGRAM FOR LONG BEACH MEETING

William G. Stubbs, 60, city clerk of Pacific Grove for the past two years, died at his home in that city August 18 following an illness of six months.

The architectural offices of the late William H. Crim, Jr., will continue to operate under the name of Crim, Resing and McGuinness, with headquarters at 483 Pine Street, San Francisco. Phone Davenport 1176.

Sir Aston Webb, 51, noted architect, died in London, August 21. Among Sir Aston's best known works were the new front of Buckingham Palace and the Admiralty Arch at the east end of the Mall.

William S. Hebbard, 77, Los Angeles architect, died in San Diego August 24 from a heart attack while visiting his daughter, Mrs. Rivers J. Carstarphen at Coronado. Besides his daughter, he is survived by his widow and a son, Sterling Hebbard of Beverly Hills.

A. R. McGonegal of Washington, D. C., was elected president of the American Association of Sanitary Engineers. Other new officers include Charles Henderson, Seattle, director. William Hobbs, San Francisco, was among the vice-presidents named.

Charles F. Ruggles, 84, known as the "last of the lumber barons," died at his home in Manistee, Mich., August 21. He had extensive timber interests in many parts of the United States. Although a multimillionaire, with property in California, Florida, the Carolinas and other sections of the country, his life was simple to the point of eccentricity.

Joshua Marks, well known in Los Angeles building circles, and formerly connected with Meyer & Holler, and the J. V. McNeil Company, general contractors, both of Los Angeles, has become associated with Lindgren & Swinerton, Inc., general contractors of San Francisco. Mr. Marks, as vice-president of the company and a partner in the business, will be the managing director for Southern California with offices in the Pacific Mutual Building, Los Angeles.

Following a recent conference with directors of the West Coast Association, the National Lumber Manufacturers' Association is arranging to station a field engineer under the direction of its Western Office, to develop lumber markets in the Pacific Northwest. An engineer is to be employed in the near future who will occupy space in the Portland office of the West Coast Association where his services will be available to members of the West Coast Lumbermen's Association, Western Pine Association, and individual lumbermen interested in the promotion of lumber markets in their individual territories.

Robert O. Derrick, Inc., of Detroit, Mich., has been commissioned by the Secretary of the Treasury as architect for the new post office, customhouse and courthouse to be erected in that city. The authorized limit of the cost of this project is \$5,650,000.

One of the ablest Long Beach committees ever appointed is in charge of local arrangements for the 9th annual meeting of the Pacific Coast Building Officials Conference, to be held at the Virginia Hotel, Long Beach, Calif., Sept. 25 to Oct. 4. Announcement of Paul C. Graham as general chairman is made by C. D. Walles, Jr., chief building inspector of Long Beach. Mr. Graham is vice-president of Graham Bros., dealers in rock and sand, and is second vice president of the Long Beach Chamber of Commerce.

Seven subcommittees are to handle convention details under Mr. Graham's chairmanship, with chairmen as follows:

Transportation—Robert Leebreck of Leebreck & Fisher, building materials; Men's Entertainment—James Rainey, architect, associated with W. Horace Austin, A. I. A.; Ladies' Entertainment—R. D. Van Alstine, A. S. C. E., consulting engineer; Banquet & Hotel Reservations—J. W. Black, building material dealer; Special Events—A. L. Ferver, general manager Geo. M. LaShell Co., building material supplies; Finance Committee—Chas. W. Pettifer, general contractor; Publicity—E. A. "Gene" Bradbury, manager Builders' Exchange.

Chief Building Inspector Walles is ex-officio member of all seven committees.

Registration of delegates, furnishing of programs and badges, and certain other details will be taken care of by the Chamber of Commerce. In addition, Albert S. Conner, manager of the convention bureau of the Chamber of Commerce, is in charge of sending letters and pamphlets to prospective delegates including the Conference membership, a large number of city building officials in the eleven western states, and a selected list of building material people and others. More than 600 such letters have already been mailed by the chamber of Commerce.

Prior to formal opening of the convention on Monday, Sept. 29, the executive committee will hold a meeting at 8 A. M. Following this, registration of delegates will begin at 9 A. M. Called to order by President Plummer at 10 A. M., the conference will occupy itself with preliminary business and announcements of committees, after which a luncheon is scheduled at Recreation Park. A feature of this luncheon will be the tree planting ceremony which, beginning with this year's meeting, will take place each year in the annual meeting city. A tree suitable to the locality will be planted, bearing appropriate marking to commemorate the holding of the 9th annual meeting in Long Beach.

Reconvening at the Virginia Hotel at 1:30 P. M., the delegates will hear a paper by James F. Collins, director State Department of Professional and Vocational Standards, entitled "Cooperation Between Building Departments and the State in the Licensing of Contractors." A brief symposium covering the entire Uniform Building Code with reference to enforcement is scheduled for 2:30 the same afternoon. Something new at this year's convention, the symposium will comprise six short papers, each of

which will be presented by a building inspector member of the conference, who will then open the meeting for discussion on his particular subject.

The second day, Tuesday, Sept. 30, will begin at 7:30 with one of the most popular features of the convention, a code discussion breakfast headed by Walter Putnam, superintendent of building, Pasadena, Calif.

Code changes committee work will occupy the entire remainder of the second day.

An evening trip Tuesday to the Columbia Steel Mill at Torrance is being planned for all delegates and their ladies.

Another discussion breakfast will be held on the third day, Wednesday, Oct. 1, led by J. H. Park building inspector, Compton, Calif. Mr. Park has been administering the Uniform Code in his city since December, 1928.

For the regular session on Wednesday morning two papers of exceptional interest are scheduled. The first is by H. G. Ufer, western superintendent, Underwriters' Laboratories, who has for his subject, "Methods used by Underwriters, Laboratories, Inc., in making standard fire tests." Mr. Ufer will illustrate his talk with films. The other paper, by Henry D. Dewell, consulting engineer of San Francisco, is on "Factors of safety recommended for wood construction." A recognized authority on wood construction, Mr. Dewell has recently carried on extensive research on the subject of his paper. Code committee work will be resumed at 10 o'clock, to occupy the remainder of the day until 3:30 P. M. when a trip is planned through Long Beach and San Pedro harbors and the new Ford plant.

Unique entertainment for the men is planned for Wednesday evening. The committee in charge is making every attempt to keep the details a dark secret until the evening of the entertainment.

On Thursday, Oct. 2, the third and last of the code discussion breakfasts will be held, under the able leadership of M. C. "Daddy" Woodruff, building inspector of San Jose.

An able city planner, Leonard S. Smith, former professor of city planning and highway engineering at the University of Wisconsin, will begin the regular session Thursday morning with a paper on "America's Housing Problem." Following this will be a paper on "General problems encountered by an electrical inspector," presented by James M. Evans, electrical engineer, Board of Fire Underwriters of the Pacific. This subject holds particular interest for a number of building inspectors who occupy "multiple" positions. Later in the morning a paper will be given on "Reinforced brick masonry" by Norman W. Kitch, secretary-treasurer, Clay Products Institute of California.

A. C. Horner, manager western office, National Lumber Manufacturers' Association, needs no introduction to conference members, many of whom knew him as first secretary of the conference. His paper just before noon on Thursday on the subject of "Fire districts as outlined in western cities" should be one of outstanding interest and merit.

Recommendations of the six code changes committee will be heard Thursday afternoon in code changes

and additions proposed in the reports approved by the convention will be sent out for letter ballot of the building inspector members after the convention.

The last day of the business session, Friday, Oct. 4, will be devoted for the most part to final business sessions and exhibits of building materials. Two interesting and instructive papers are also being planned for the morning sessions.

On Friday evening the Virginia Hotel will be the scene of the annual banquet, after which there will be dancing in the hotel ballroom.

The ladies' entertainment committee, under the chairmanship of R. D. Van Alstine, is planning many enjoyable events for the ladies. Tentative entertainment includes drives about the city, with luncheons, afternoon bridge parties, swimming parties, a theatre party, and a trip to Hollywood to visit the moving picture studios.

An all-day ocean trip to the world-renowned Catalina Island will take place on Saturday for all delegates and their ladies.

Proposal To Unionize Palo Alto Hospital Job Rejected By K. E. Parker

The building of Palo Alto's \$347,000 hospital being erected on the Stanford campus by K. E. Parker Company of San Francisco will continue at the hands of outside labor says the Palo Alto Times.

The fight made by local labor organizations, backed by city officials, business men and civic organizations, to secure preferential employment for Palo Alto craftsmen brought a concession from the contractor.

But the concession was rejected by local labor, which would be satisfied with nothing less than complete unionization of the job. To this the contractor would not consent.

Following a series of meetings and private conferences, K. E. Parker, head of the construction company, declared his willingness to meet the local wage scale, which is higher than that paid his "imported" crew and take on local craftsmen by a program of gradual replacement of his outsiders during the first phase of the building operations, known as the "form construction" phase, and to employ an all Palo Alto crew for the second phase.

After deliberation and consulting of advice of San Jose district officials of the union organization, the local labor representatives held out for complete unionization of the job, refusing to accept the contractor's concessions unless that boon, too, could be granted.

The building operations are progressing without the help of local men.

WILL REVIVE L. A. LUMBER DEALERS' ASSOCIATION

Renewed efforts are being made to revive the Los Angeles Retail Lumber Dealers' Association as the result of a meeting of the Southern District of the California Retail Lumbermen's Association held August 7 in Los Angeles. Dee C. Essley, manager of the state association, is devoting his time to the work of promoting a new local organization, but nothing definite has yet been accomplished.

TRADE LITERATURE

Everlastone Products Corp., 1400 Block Moreland Ave., Baltimore, Md., has issued a folder describing Everlastone Stucco, Paints, Tiles and Terrazzo, Cement and Mortar colors and Waterproofing and Cement Accelerators. This concern sells direct to the buyer.

Wilcox, Crittenden & Co., Inc., Middletown, Conn., has issued an illustrated catalog covering this company's entire line of heavy hardware for building construction.

General Electric Co., Schenectady, N. Y., has issued Bulletin GEA-823C, dealing with Atomic-Hydrogen Arc-Welding Equipment, which produces homogeneous, ductile welds on ferrous and nonferrous metals and alloys.

The use of activated carbon as a water purifier is taken up and thoroughly discussed in one chapter of a 36-page booklet by C. L. Mantell, consulting engineer, which is being distributed by the Industrial Chemical Sales Co., Inc., 230 Park Ave., New York City. In addition to water purification, other chapters relate to the use of activated carbon as a purifying agent in industrial applications.

Industrial applications of cork are discussed in great detail in a 48 page illustrated booklet issued by the Armstrong Cork Co., Lancaster, Pa.

EMPLOYMENT IN STATE IS LOWER

Employment in California is about 17 per cent lower than a year ago. The California labor market bulletin, issued by Louis Bloch, statistician in the state division of labor statistics, so indicates.

Bloch's figures for 775 establishments, exclusive of public utilities, but including all other industries, showed a figure for July 17.6 per cent lower than July, 1929, with a weekly payroll of 21.3 per cent lower. The average weekly earnings of laborers was computed to be \$29.39, a decrease of 4.5 per cent compared with a year ago.

Public utilities reports from twenty-six corporations, indicated a smaller decline in employment, amounting to 6.7 per cent, a payroll shrinkage of 3.6 per cent and an average wage gain of 2.3 per cent.

Notable employment slumps were reported by agricultural implement makers, down 43.8 per cent; sawmills and logging, down 30.3; motion picture production, down 43.2, and various branches of building material production, ranging around 20 to 30 per cent lower than a year ago.

Some increases were: Canning and packing of fish, up 52 per cent; miscellaneous food products, up 40.8 per cent, and the sugar, tobacco, beverages and glass industries all reported minor employment increases.

McKiernan - Terry Corp., 15 Park Row, N. Y. C., has issued Bulletin No. 49, more complete than any previous catalog issued by McKiernan - Terry on their line of pile hammers. Practically every form of pile driving work known is illustrated. Specifications, tables, etc., are also included.

TRADE NOTES

Ideal Floor Co. of San Francisco, capitalized for \$25,000, has filed articles of incorporation with the county clerk. Incorporators are: Janet Brodsgar, Neil J. Brodsgar and Niel A. Skow.

Wilmac Manufacturing Company has just been organized, and is manufacturing a sweeping compound, a cleanser for tile and linoleum, and a solvent for opening up pipes, etc. The concern has leased one floor at 1165 Bryant street.

Pacific Art Tile Company recently moved to San Francisco from Emeryville, and is located at 1176 Valencia Street. The company manufactures art tile for interior building purposes, and occupies one floor at the above address. Products are widely distributed over the Western States.

SIMPLIFIED INVOICE SOUGHT BY STATE CHAMBER

To bring about the general adoption of the simplified invoice in California, a statewide campaign is being conducted by the California State Chamber of Commerce, through its Simplified Practice Committee.

It has been conservatively estimated by the U. S. Department of Commerce, that the general adoption of the simplified invoice will result in a saving to American business of \$15,000,000 annually. The simplified invoice, which has been developed by the Division of Simplified Practice of the U. S. Department of Commerce, is endorsed by 38 nationally known trade and professional associations, and strongly recommended by the National Purchasing Agents Association.

The California State Chamber of Commerce, with the cooperation of the Purchasing Agents' Association of Northern California and of Los Angeles, is endeavoring to have this standard adopted by 100 firms in California during this year, according to Chas. M. Gunn, vice chairman, Simplified Practice Committee, of the State organization. At the present time, 39 California firms are on record with the Department of Commerce, as having adopted the standard, it is stated.

The simplified invoice is one of ten different items of Simplified Practice which are being undertaken by the California State Chamber of Commerce, for the purpose of placing California industry on a more stable basis of development.

W. E. BEAR COMPANY OPENS OAKLAND BRANCH

W. E. Bear Company of San Francisco announces the opening of branch offices and warehouse quarters at 1025 Fruitvale Ave., Oakland.

Bear Company is distributor for products of the Nephi Plaster & Manufacturing Company, the Utah Lime & Stone Company, Jumbo Plaster & Cement Company, Penn Metal Company and the Acme Stucco Company.

A complete line of the materials manufactured by these concerns will be carried by the Oakland branch which will sell to both the wholesale and retail trade.

Negotiations are now being made by the Bear Company for the opening of a branch at Sacramento.

STATE LICENSE BUREAU INVESTIGATORS ARE BUSY

"A check of the records of the Section of Contractors' Registration reveals that during the past months investigators in the employ of this section have averaged approximately 7000 calls a month in connection with investigations and interviews having to do with licensing and registering of contractors under the Contractors' Registration Law, which became effective August 14, 1929," it was stated by James F. Collins, director of the Department of Professional and Vocational Standards and Registrar of Contractors, in his report to the Governor's Council July 30, 1930. "The reports show that these investigators have covered an average of 28,000 miles per month in carrying out this work.

"Complete efficiency records of the work of the investigators are kept at the Sacramento offices of the Registrar and each month a copy is furnished each investigator in order to appraise him of his standing and the standing of all other members of the investigating force as to work accomplished. This system has engendered a spirit of friendly rivalry that is making for increased efficiency.

"The complaint bureau of the section held 63 conferences based on complaints lodged with the Registrar. Of these, five were settled in conference without further action being necessary, and 45 were pending settlement at the close of June. Licenses were ordered suspended in six cases and cancelled in four other cases as the result of conferences. In addition, three licenses, previously suspended, were ordered restored.

"In addition to the conferences held, with their resulting actions, five

cases were settled before reaching the conference stage. Two cases were dismissed as not coming within the jurisdiction of the department.

"Arrest was made and prosecution begun in one case involving charges against a person asserted to have operated as a contractor without a state license.

"Reference to the geographical file of the Section of Contractors' Registrations reveal some interesting figures bearing on the registration and licensing of contractors in California.

"There were on June 30, 1930, a total of 21,564 contractors duly registered and licensed throughout the state under the Contractors' Registration Law.

"Of this number, 12,589 are located in the ten counties of Southern California. And of this subtotal, Los Angeles County is credited with 9982 persons so registered and licensed.

"In San Francisco county, the records reveal, there are 1663 licentates.

"Of the total number of contractors licensed during the fiscal year ending June 30, 1930, approximately 10,700 had applied for renewal of their licenses for the next fiscal year on July 15. Applications for renewals are being received in ever-increasing volume each day and the work of issuing certificates for 1930-31 is progressing satisfactorily."

"Work of examining the applications of several thousand civil engineers seeking certification by the Board of Registration for Civil Engineers, under the law which became effective August 14, 1929, is progressing satisfactorily, the director reported. At the close of June, application blanks had been mailed out to 9550 applicants.

and irrigation, hydraulics, surveying contracts in engineering, laws, regulations, writing, property valuation, and drainage machinery and structures.

"The particular field of public administration rests upon much basic knowledge as economic, mathematical, political science, psychology, sociology, science and civics. The part of the work is also offered, therefore, in the Trojan civic center school, in mathematics, English and a logic. One aim is that a specialist in a particular technical subject may get related subjects which will enable him to become a public administrator in point of view.

Newspapers as Educators

"Years ago, in government, the public official was educated through the town meeting. Few of us appreciate the value of these early discussion groups, the opportunity they afforded for the exchange of ideas, the part they played in formulating public opinion as to standards of conduct. As the population increased, the town meeting became a thing of the past and in a certain sense the newspaper has come today to take its place.

"The present-day newspaper is probably one of the greatest forces in the education of public officials known in American history. When a man in private business makes a mistake, usually a directors' meeting is held and an attempt is made to pay off as many cents on the dollar as possible and hide the mistake. When a public official or a city manager or a department head makes a mistake, the newspapers tell the world about it. That is education! And even though it may be painful at the time, yet the good that the newspaper has done is almost immeasurable in the education of public officials. They have made the public official think about all of the influences and all of their responsibilities toward the social welfare of the people.

"Public officials, recognizing a further opportunity for education, now sit with college professors, planning in the planning of adequate training for government service, hoping to make it the highest of all callings, for it is certainly the closest to the welfare of the people.

Citizens' Business

"One of the finest things that the decade has contributed to American municipal government is the idea that business methods can be applied to the running of a municipal unit. And as the question 'is it economical?' must be answered in private business, so, in the future, must it be answered in public business.

"The average routine worker, holding an elementary position in the city or county government, finds that the technique and skill of his job are by far the largest elements in his success. In the case of the junior executive, the relative importance of the indispensable knowledge of facts, technique, and skill in his job decreases in proportion to his increasing responsibility to plan and direct the work of subordinates, and in proportion, also, to his increasing contact with the public.

"In the work of the senior executive the relative importance of the necessary facts, technique, and skill decreases markedly. And as the work of other departments is almost an absolute necessity, while approximately 50% of his success depends upon his relations with the public.

Graduate Work and Institutes

"The University of Southern California has recognized the increasing character of public administrative work, and there are now organized 4-year campus courses leading to degrees in public administration. An additional graduate-year curriculum leading to the professional degree of Master of Science in Public Administration is available to both first-

S. C. SCHOOL OF GOVERNMENT TO ENLARGE SCOPE OF STUDY

"Training for government in evening classes is provided in the School of Public Administration of the University of Southern California which will open its fall term on September 15 in the Los Angeles Civic Center with an augmented program. College classes dealing with public relations, city building code, public building management, office management and elements of reinforced concrete (the last for architects only) have been added to the 1930 fall program.

"Ideas of government today are different from the ideas of fifty years ago," Emery E. Olson, director of the school, says. "For many years our schools and universities have been providing training in practically every profession except that of government. True, some specific fields in government, such as law, engineering, and public health have received attention, but heretofore there has been practically no coordinated course which would train and equip an individual to take his place in the scheme of government of a 20th century municipality.

School Founded in 1929 by S. C.

"One reason for this lack is that only within the last fifty years has our American civilization become so largely urban as to require a technique of government all its own. The School of Public Administration of the University of Southern California was established in 1929 to meet this modern

need. Committees composed of men engaged in public business, those dealing with budgets, construction, utilities, law, health, engineering, city clerkship administration, and auditing, brought to the university their experience in these actual fields. Such public officials outlined courses, suggested material and reference sources, and although counseling with university faculty members, the content of the work is largely their own.

"Any public employee, appointee, or electee unaware of the formal, economic, cultural, and communicative channels now open to him for self-development is missing a very real opportunity toward achievement. The courses have been grouped so that by attending one night a week for two or three years a public official or a junior member of a staff may receive a certificate in his special field. Classes begin forty minutes after work is over at the end of the day (5.40 p. m.) and each class meets once a week for twelve weeks.

"Subjects included in the 1930-31 schedule are principles of public administration, criminal law administration, public finance, evidence and court procedure, organization and management in the department of water and power, police methods and practice, accounting, special improvement assessments, mechanics and strength of materials, library classification and cataloguing, water supply

and part-time students. There are also related combinations where a man may receive a certificate in public administration, having received for instance a degree in engineering, by adding the public administration courses. Social welfare courses are likewise given in connection with public administration degrees.

"For officials and employees of those towns too distant from educational centers to make regular attendance feasible, an annual intensive institute in public administration is held each spring at S. C. For three different years more than fifty cities have been represented by over 600 public officials and public service workers from the departments of city and county government. National experts in the science of government serve as special lecturers and forum leaders in the yearly institute.

"Promotional examinations find these earnest, ambitious, and energetic students of public work prepared, and self-development as well as professional improvement is stimulated in the men and women who attend the school of government of the University of Southern California, results of the first year's attendance have already proven."

JULY BUILDING PERMITS UP 2.4 PER CENT

July building permits jumped 2.4 per cent above the June totals, the Borough of Manhattan leading the country with a total of \$23,750,000, according to figures of 288 cities in the country made public by the Labor Department.

The department failed to itemize the total by cities, dividing building permits totals into geographic sections.

The permits for the 288 cities showed a building expenditure of \$164,067,963.

The increase was accounted for in a jump of 5.1 per cent for non-residential buildings, which more than offset a loss of 2.2 per cent under the June totals for residential buildings.

Middle Atlantic States led the list, with a total of \$72,244,188; East North Central States, \$29,358,413; Mountain and Pacific States, \$16,198,127; New England, \$13,926,103; South Central, \$12,676,553; South Atlantic, \$10,172,407; and the West North Central group, \$9,492,172.

OAKLAND PAVING CONTRACTS ARE CANCELLED

On the ground that patented paving was specified therein, the Oakland city council has voted to cancel contracts with the Heafey-Moore Company for paving projects involving more than \$70,000. The action was taken on recommendation of Walter N. Frickstad, city engineer. New bids will be asked on the cancelled contracts. The bids will be received on "open" specifications.

INCORPORATES

Information on the various points to be considered in buying a home will be compiled and published for public use by a special committee of the National Committee on Wood Utilization, according to a recent announcement by Robert P. Lamont, United States Secretary of Commerce. The publication will discuss the planning, designing and construction of houses costing less than \$15,000. Irving Hiett, Toledo, Ohio, past president of the National Association of Real Estate Boards, has been named a member of the sub-committee sponsoring the publication.

Contractor Entitled To Payment for Extras

While a contractor is bound to complete a contract strictly in accordance with its obligations, yet where the circumstances are such that the contractor is mistaken of his obligations and the owner actually was or should have been aware of the true circumstances the contractor is not bound to comply with the terms of the contract. Thus held the court in *Hammaker v. Schleigh*, 147 Atl. 790, says The Constructor.

This litigation involved a contract by the terms of which the contractor agreed to alter a building for \$23,500. The specifications attached to the contract were lengthy. At the beginning was the general provision that the entire work was to be constructed and finished according to the specifications and "to the entire approval and acceptance of the owner and his architect." Another portion of the specifications contained the following specification for protection against fire:

"Present building has sprinkler system. This shall be remodeled and continued to take care of the additional spaces. System shall be installed in accordance with the underwriter's rules."

The existing sprinkler system, when the contract was signed, protected four floors of the building. It consisted mainly of a number of pipes in which the water was carried throughout the building and there sprinkled when the water was automatically turned on by the melting of fuses under the heat generated by a fire.

After the contractor tore apart the sprinkler system he discovered that the pipes and other equipment was so badly rusted that the underwriter would not approve their further use. The owner demanded that the contractor supply new material and the architect stated that he would refuse to accept the work unless the contractor supplied new pipes. The contractor furnished the required new materials and sued the owner to recover extra payment. It is interesting to observe that the higher court held the contractor entitled to a recovery, saying:

"The exterior of the pipes gave no indication of a defective condition and there is no evidence that the plaintiff (contractor) knew of any fault at the time of the contract, nor that he believed that the pipes were not adequate for the proposed remodeling, and so he must be taken to have contracted upon the assumption that the pipes were suitable in quality for the specified purpose. The owner's opportunity for knowing the length of time the system had been in service, its operating condition and effectiveness, and the other factors affecting the question of its being continued in service in the remodeled system, was superior to that of the contractor. It is but reasonable to believe that the architect in specifying that the sprinkler system should be remodeled did so after investigation, full information and in the exercise in this employment of the professional skill and knowledge of an expert. In the absence of any countervailing circumstances, these facts would justify the contractor's reliance without first making an independent inquiry, upon the architect's judgment that the material specified was fit for the purpose intended."

L. A. VIADUCT BUILDING COST APPORTIONED

The State Railroad Commission has approved a new apportionment of the cost of building the Sixth street viaduct over the Los Angeles river at Los Angeles.

The city will pay 37½ per cent and the Santa Fe and Salt Lake railroads 12½ per cent each. The cost has been estimated at \$1,500,000.

ARCHITECT'S BILL DELAYED TEN YEARS TO BE PAID

Ten years ago W. E. Lougee, architect of Cleveland, Ohio, submitted to the Cuyahoga County Commissioner plans and drawings of a proposed county war memorial. His fee was \$2500 but he did not submit his bill until early this year. Prosecutor Ray T. Miller recently informed commissioners that the bill could be legally paid.

SAN DIEGO CONTRACTORS MUST HAVE CITY LICENSE

Building contractors operating in San Diego must pass an examination and post a bond in accordance with provisions of the licensing ordinance of that city, it is stated by Oscar Knecht, building inspector.

The ordinance applies to contractors doing work either on a lump sum or a fee basis. Persons taking contracts or sub-contracts from owners doing their own building must have a license. Those taking contracts or sub-contracts from a contractor licensed to do business in San Diego are not required to have a license. The San Diego ordinance was drafted by Mr. Knecht.

GOOD TIMES FORECAST

Harvey S. Firestone, tire manufacturer, in an address before the Cambridge (Mass.) Industrial Association declared that the present slump in business soon would be succeeded by greater prosperity than America has known for ten years. He advocated hard work, reduced prices and reduced overhead. He agreed with Henry Ford that soon there would be work for everybody.

High Salaries Said To Be Need of Country

Eldridge R. Johnson, industrialist. Moorstown, N. J., declares that high wages are the medium "to snap us out" of the present business depression.

Johnson, former president of the Victor Company, said there was evidence business generally is on the up-grade. He said an indication of this was seen in plans of the RCA-Victor Company to enlarge its force of 5000 men to a total of 17,500 before September 15th, that the Campbell Soup Company expects to have more employees by that date than ever before, and that the Pennsylvania Railroad has contracted for electric locomotive equipment running into millions of dollars.

He gave as his opinion that these were only isolated instances of a general movement toward business recovery.

Johnson said it was "far easier to resume on a high wage basis than it is on a low wage basis, because on a high wage basis everything begins where it left off right away, whereas on a low wage basis it will take years to build up again to the old standard."

HIGHWAY FUNDS APPORTIONED AS EMERGENCY EMPLOYMENT AID

Secretary of Agriculture Hyde has authorized the apportionment of the Federal funds for highway improvement in the fiscal year ending June 30, 1932. This will make it possible for the States to anticipate the Federal funds which will be paid to them next July and will enable them to expand and advance their highway programs at once and so provide emergency employment for a considerable number of men who might otherwise be destitute as the result of crop failures.

Congress has appropriated \$125,000,000 for the fiscal year which will begin July 1, 1931. After deduction of the 2½ per cent allowed for administration, Secretary Hyde was able to allot \$121,875,000 to the several States and to Hawaii. Because drought conditions are confined to only part of the States, and a balance of previous allotments remains unobligated to the credit of several of the States, the Secretary will use his discretion as to the approval of projects and will expedite the approval of projects complying with the following conditions:

1. That the State has obligated and has under construction all or practically all of the Federal aid funds previously allotted.

2. That State funds be required for each project in an amount sufficient to meet the Federal aid funds on the legally established basis. This would not exclude the voluntary contribution of additional country or local funds but would require the State itself to provide a minimum amount equal to the Federal pro rate required, basically fifty per cent Federal funds.

3. That the State Highway Department submit with each project statement a reasonable showing that the project if expedited would assist in providing employment in the drought areas or would directly contribute to the relief of unemployment in a substantial way. The authority for exercise of administrative discretion in the approval of projects is found in various sections of the Federal highway legislation.

Although the emergency road work is expected to be done in only those States that are suffering from unemployment and from the drought, the apportionment for all the States had been made.

California will receive, \$4,181,212; Oregon, \$1,997,569; Washington, \$1,940,922; Nevada, \$1,598,987; Arizona, \$1,768,023.

PAINT FAILURES—WHY? RIGHT PAINT IS THE ONLY CHEAP PAINT

(By Hurlbut S. Jacoby, Chief Engineer, and Glenn H. Picard, Chemical Engineer, H. K. Ferguson Company, Cleveland)

Paint failures can usually be traced either to the use of poor quality material, improper application, or application on surfaces which are not in proper condition.

In the case of improper material, two subdivisions pertain: First, good material specified for the wrong location; second, poor material not good on any location.

In connection with the latter it may truly be stated that a paint can be bought at almost any price within reason that one cares to suggest.

In reference to the former it is proposed to discuss proper materials to be used for three specific locations found in many ways inside the modern industrial plant—structural steel, wood roofs, and brick sidewalls. In this discussion it is assumed that normal atmospheric conditions pertain and therefore high humidity and corrosive gases will not be included.

In the case of structural steel, the first coat of paint must be of such a quality that it is held in place by adhesion and retards the formation of rust. Red lead, with its chemical and physical properties, comes closest to fulfilling both of these requirements.

Years ago the shop man objected so strenuously to red lead paint because of its harder application and quick hardening qualities, that other cheaper and poorer materials were used, with poor results. Improvements have gradually been made, however, until today ready mixed red lead paints of high grade are obtainable in a form that can be applied to steel at reasonable cost.

Less costly, but with high protective properties, is red oxide of iron, commonly called Iron Oxide. It is interesting to note that in the recent wrecking of the old Waldorf-Astoria Hotel in New York, the only effect of time on the one coat of red oxide paint applied on the steel erected 40 years ago has been to dull the high gloss of the paint.

Natural oxides of high iron content

are the best. At slight cost, the addition of about 10 per cent zinc chromate adds greatly to the rust preventive properties of iron oxide, which otherwise is only slightly inhibitive.

For the finish coat on steel, we might consider three paints which are highly satisfactory for the particular purpose.

In a textile mill or furniture factory, where cleanliness and light are important, mill white paints are often used for field coats. During the past few years aluminum paint has made rapid strides and is admirably adapted for the finish coat in plants of many kinds, in the steel mill, the foundry or forge shop, a black graphite paint is recommended.

Many owners, desiring a finish coat of mill white paint, have felt it necessary to start with a shop coat of gray paint in order to cover to better advantage with the finish coat. On the other hand we have found no particular advantage in coverage of white paint over a gray priming coat as compared with red, two coats of white being required in either case. Where a final coat of gray is desired, good coverage may be secured in one coat over a red priming coat. An added advantage in using two different colors is that any points which are missed in applying the final coat are immediately evident. Also, contrary to common conception, an eggshell or semi-gloss finish is far more satisfactory for a finish surface than gloss. The latter, with its greater oil content, attracts and holds dirt and dust and is actually harder to clean.

Being metallic, aluminum paint has its rightful place on structural steel, particularly as an after-coating. In addition to its excellent covering capacity and recognized durability, aluminum paint reflects light nearly as well as the average white paint.

Unlike other pigments, aluminum powder does not need to be ground in oil. The simple stirring of the pigment into the vehicle to form a uni-

form suspension is all that is required to prepare the paint for use. It should, however, be mixed and applied the same day if possible to get the maximum luster, the brightness and the hiding power.

The vehicle recommended for use with aluminum powder is a long oil spar varnish. Both the vehicle and the powder may be obtained from any reputable paint manufacturer. The powder is mixed with the vehicle in the proportion of two pounds per gallon. This gives approximately one and one-eighth gallons of aluminum paint.

For finish coats on structural steel, graphite paint gives excellent protection. Black or dark green are attractive colors obtainable with graphite pigments. Natural graphite is preferable for it possesses the faculty of "leafing" over a surface. The result is a shingle-like structure, highly impervious to moisture.

The lighter colors, such as gray, light green or white, cannot be produced if graphite is used in the pigment in sufficient quantity to be definitely effective. If desired, these shades, white lead and oil or a combination of white lead and zinc oxide in oil should be used.

Painting Interior Woodwork

In factory construction the major item of interior woodwork requiring painting is the wood ceiling consisting usually of yellow pine lumber.

The three main essentials of a good priming coat on wood are, first, a proper bond between the primer and wood, second, a sufficiently hard film to support the superimposed coats and third, the surface presented for receipt of the next coat must be such that a good bond between the two will result.

White lead and oil forms unquestionably the best priming coat for wood surfaces under normal conditions. The necessary bond with the wood is provided by the use of a suitable volatile solvent. No better or more universally acceptable solvent can be recommended than turpentine.

Excellent results may be secured by using mill white flats for first coat on interior wood and, in view of the absence of severe exposure, the resulting saving in cost is justified.

Knots and streaks of heavy pitch which are prevalent in yellow pine lumber are apt to burn through white paint unless sealed over. The action is particularly noticeable in the case of uninsulated roofs subject to extremely hot sun, due to the action of the heat upon the pitch.

For many years it has been standard practice to coat in all knots and pitch with shellac before applying the priming coat and it is well to take this precaution whenever circumstances indicate a possibility of trouble from this source.

A priming coat of aluminum powder in a varnish liquid placed directly over the wood has been found to provide a satisfactory priming coat for a finish coat of white, at the same time giving excellent protection against bleeding from pitch and knots, without the use of shellac.

The final coat on wood surfaces may be a mill white or other shade desired. Over a good primer the chief consideration in the final coat becomes one of decoration and the permanence of color.

Painting Masonry Walls

Of first importance in the successful painting of masonry walls is the sealing of the surface to provide a proper foundation for succeeding coats.

The first, or sealing coat, must be of a character which will prevent penetration and loss of oils from the final coats. Such penetration results in spots of low gloss which are quite "flat" in comparison with the

mainder of the surface. The painter refers to this action as "suction."

The sealing coat must also prevent the action of lime compounds in the mortar which if active will destroy the oils of the final coats of paint, producing the effect known as "lime burning."

The normal practice is to seal the masonry surface with a varnish type of size. When conditions are not extreme, a separate coat of size may not be necessary but in all cases about 25 to 50 per cent of the first coat of paint should be varnish size to insure proper sealing.

In the case of ready mixed mill whites, the manufacturer usually provides a separate material for the priming coat and finish coat. The priming coat thus prepared will usually contain a fairly high percentage of sizing material, and the addition of further size in proportions given above may not be necessary. The recommendations of the manufacturer, based upon the actual conditions, should be followed under such circumstances.

The possible action of lime always constitutes a hazard to paints used on masonry, particularly if moisture reaches the wall through some unexpected failure of the structure elsewhere.

For this reason it is considered good practice to apply a preliminary wash coat of zinc sulphate in water before the surface is painted. The zinc sulphate reacts with the lime and forms harmless compounds thus protecting the outer film from damage.

The final coat on masonry may be the same as used elsewhere on the interior of the building and discussed later under the section devoted to Mill White Paints.

Preparation of Surfaces

A source or paint failure too often overlooked is an improper condition of the surface to receive the paint. It would appear hardly necessary to point out that mud, concrete, and mortar should be carefully cleaned off of all surfaces to be painted. It is not at all unusual to observe paint being applied over any or all of the items mentioned.

Grease and oil also cause much trouble, especially on steel. They should be moved with benzine or a suitable alkali. Mill scale and rust should be removed down to sound metal. If rust spots are painted over, rusting continues under the paint and finally pushes off the entire film. Badly rusted steel is best cleaned by use of a sand blast. However, if thoroughly performed wire brushing will be satisfactory.

Dampness of the surface should be guarded against particularly. If new wood is wet or even damp, it will repel adherence of oil paint. Lumber which is not perfectly dry should be allowed to dry out before painting. A total of ninety days air drying in good weather from the time the timber is cut should be considered a minimum.

Moisture in masonry walls at time of painting will almost invariably cause trouble. Care must be taken to distinguish between superficial surface drying and the thorough drying which is essential to proper performance. As a rule two or three months should elapse before paint is applied to masonry depending to a certain extent on the condition of the weather.

No priming coat should be applied shortly after a rain, or during excessively humid weather. Painting during cold or frosty weather should also be avoided.

Application

The capacity for service of any paint depends to a great extent upon the way it is applied. If brushed on, it should be brushed out by repeated passages of the brush over the surface. Particularly is this essential in the case of rough surfaces. When paint is simply flowed on, without additional brushing, it lies on top of any extraneous film that may be on the surface. It bridges over irregularities in the surface without good contact and remains a coat of varying depth.

Too thick a coat is liable to wrinkle. When this happens wear is uneven and repainting difficult. Too thin a coat is also objectionable as only a slight amount of chalking will expose the surface underneath.

Paint may be applied satisfactorily by spraying. Skill is required in handling the apparatus to secure best results and operators should be required to demonstrate their fitness for the work before being allowed to coat actual surfaces. A proper balance of paint and air volume, air pressure and distance of the nozzle from the surface is essential to good work.

Too much paint applied by spray causes wrinkling. Too little air causes poor atomization of the liquid and uneven coats result. Too low a pressure fails to force contact between surface and liquid, too much air drives the paint into a mist, resulting in abnormal loss of material and poor films. It may be seen that it requires skill and practice to lay on a good coat of paint with an air spray.

Mill White Paints

The use of the so-called mill white paints for interior factory purposes is now quite universal. This type of material has great covering capacity and properly handled will produce a good white surface in two coats.

Mill whites are produced in three finishes — flat, semi-gloss or egg-shell and full-gloss. The semi-gloss is to be recommended for general purposes. It provides a dense heavily pigmented film which will not accumulate dust and dirt as will the full-gloss and without the tendency to dust away which is apt to characterize a flat white.

The pigment most frequently employed is lithopone, a precipitate consisting of zinc sulphide and barium sulphate in fairly definite proportions. Lithopone may be used either alone or in combination with zinc oxide, titanox, or, in some cases, with a limited percentage of inert.

Especially treated vehicles must be used to prevent yellowing with age and under heat. In fact, the principal criterion of the value of a mill white is the length of time the paint will remain white under service.

The most important factor in the intelligent selection of paint is knowledge of the conditions to be met. A large amount of research is constantly in progress in the laboratories of reliable paint manufacturers. New developments are constantly appearing which provide better answers to conditions which have heretofore given trouble.

The good paint manufacturer can be depended upon to furnish a material which will meet the conditions unless he is handicapped by price restriction. Bearing in mind that the cost of a good job of painting the average building as outlined in this article is not more than 3 per cent of the entire cost of the building structure, and further that included in this 3 per cent, only one-half constitutes the cost of paint material, one can see the folly of letting the price of paint itself stand in the way of getting a satisfactory result. Many an owner has had to resort to the removal of paint, low in first cost, but expensive in the long run.

TIME WITHIN WHICH LIENS MUST BE FILED

1. If there is a General Contractor handling the entire work:
 - a. If a valid Notice of Completion is filed:
 1. General contractor has 60 days after filing of notice.
 2. All other lien claimants have 30 days after filing of notice.
 - b. If no Notice, or no valid Notice, of Completion is filed:
 1. All lien claimants have 90 days after completion.
2. If there is no general contractor on the job:
 - a. If a valid Notice of Completion is filed:
 1. Each lien claimant has 60 days after filing of Notice of Completion, except a mere materialman who furnishes mere materials direct to the Owner, or a laborer who merely performs labor directly for the Owner, and such last named materialman and/or laborer has only 30 days in which to file his lien.
 - b. If no Notice, or no valid Notice, of Completion is filed:
 1. All lien claimants have 90 days after completion.

NOTES IN EXPLANATION OF THE ABOVE

1. The periods of time mentioned above represent the time within which a lien must be filed.
2. Completion consists of:
 - a. Occupation or use of a structure by the owner or his representative accompanied by cessation of labor thereon.
 - b. Acceptance by the owner or his agent of said structure.
 - c. Cessation from labor for 30 days upon contract or structure.
 - d. Filing of Notice of Completion.
3. What constitutes a valid Notice of Completion:
 - a. Must be filed within 10 days after completion of any contract or structure or within 10 days after there has been a cessation from labor for 30 days.
 - b. Must be filed by the Owner.
 - c. Must be filed in the office of the County Recorder in the County in which the property is situated.
 - d. Notice must set forth when contract or improvement was completed or on which cessation from labor occurred; the Owner's name and the nature of his title; a description of the property; and must be verified by the Owner, or some person in his behalf.

Building News Section

APARTMENTS

Contract Awarded.
APARTMENTS Cost, \$30,000
SAN FRANCISCO. NE Kearny and
Chestnut Sts.
Three-story and basement frame and
stucco apartments (6 apts.)
Owner—C. S. Mayes, 645 Stockton St.
Architect—Clayson and Amandes,
Heurst Bldg.
Contractor—Argonaut Investment Co.,
222 Kearny St.

Contracts Awarded.
APARTMENTS Cost, \$35,000
SAN FRANCISCO. NE Broderick St.
and Golden Gate Ave.
Three-story and basement frame and
stucco apts. (12 apts.)
Owner—C. E. Lynn, 1435 Steiner St.
Plans by L. O. Berg, 675 Corbett Ave.
Brick Work—Albert Nelson, 242 Ocean
Avenue.

Concrete and Excavating—D. Fazio,
premier.
Carpentry Labor—W. B. Zane, prem-
ises.
Lumber—Christensen Lumber Co., 5th
and Hooper Sts.
Owner is taking bids on all other
portions of the work.

Preparing Plans.
APARTMENTS Cost, \$10,000
EELMONT, San Mateo Co., Calif.
Two-story and basement frame and
stucco apartments.
Owner—Name Withheld.
Plans by Carl Schuetz, 1125 The High-
way, Redwood City.
Proposed work is in a very prelim-
inary stage.

Preparing Plans.
APARTMENTS Cost, \$40,000
SAN MATEO, San Mateo Co., Calif.
Bayview Heights.
Two-story and basement frame and
stucco apartments.
Owner—E. I. Warren, Los Angeles.
Plans by Carl Schuetz, 1125 The High-
way, Redwood City.

Contract Awarded.
APARTMENTS Cost, \$—
LOS ANGELES, Cal. No. 714 Mari-
posa Avenue.
Seven-story and basement Class A
concrete apartments (60x122 ft.)
Owner—Robert E. Fennell.
Plans by Frank Cavanaugh, Archi-
tects Bldg., Los Angeles.
Contractor—Mischelle Constr. Co.,
Architects Bldg., Los Angeles.

Preliminary Plans Being Prepared.
APARTMENTS Cost, \$—
OAKLAND, Alameda Co., Calif. Old
Idora Park site.
Eight-story class A apartments.
Owner—Realty Syndicate, Syndicate
Bldg., Oakland.
Architect—Hamilton Murdock, Syndi-
cate Bldg., Oakland.
More definite information will be
given shortly.

Plans Being Prepared.
APARTMENTS Cost, \$50,000
OAKLAND, Alameda Co., Cal. 35th
St. near Telegraph Ave.
Three-story frame and stucco apts.
with concrete basement.
Owner—Nelson Bros., 13th and E 26th
St., Oakland.
Architect—Chester Treichel, American
Bank Bldg., Oakland.
Bids will be called for shortly.

Concrete and Carpentry Contract
Awarded.
APARTMENTS Cost, \$650,000
SAN FRANCISCO. California St. and
Joice St.
Eight-story class A steel frame and
reinforced concrete apartments
(300 rooms).
Owner & Builder, Marlan Realty Co.,
110 Sutter St.
Architect—H. C. Baumann, 251 Kear-
ny Street.
Concrete and Carpentry—Mission Con-
crete Co., 270 Turk St., \$23,200.

Plans Being Completed
APARTMENTS Cost, \$16,000
SAN FRANCISCO. Cabrillo Street E
Thirty-second Avenue.
Two-story frame and stucco apart-
ments (four 3-room apts.)
Owner—Withheld.
Architect—Richard Irvine, Call Bldg.,
San Francisco.
Mgr. of Construction—W. B. Jeffer-
son (Greater City Lumber Co.)
3123 Mission St., San Francisco.
Sub-bids will be taken next week.

Structural Steel Contract Awarded
APARTMENTS Cost, \$250,000
SAN FRANCISCO. SW California
and Octavia Sts.
Six-story and basement Class C brick
apartments (43 3, 4 and 5-room
apts.)
Owner and Builder—H. D. Hoerfe
& Son, 2999 California St., San Fran-
cisco.
Architect—E. E. Young, 2002 Cal-
ifornia St., San Francisco.
Structural Steel—Golden Gate Iron
Works, 1541 Howard St., S. F.
Approximately 300 tons of steel is
involved.

Reinforced concrete curtain walls,
tar and gravel roof, two elevators,
steam heating system.

Sub-Bids Being Taken.
APARTMENTS Cost, \$50,000
SAN FRANCISCO. SE Pierce and Al-
hambra Streets.
Three-story and basement frame and
stucco apartments (12 3, 4, and 5-
room apts.)
Owner and Builder—Paramount Bldg.
Corporation, Ltd. (S. A. Giusti, in
Charge), 200 Green St., S. F.
Architect—Richard Irvine, Call Bldg.,
San Francisco

Preparing Plans.
APARTMENTS Cost, \$—
LOS ANGELES, Cal. No. 630 S.
Kingsley Drive.
Five-story and basement brick apart-
ments (61x123 feet).
Owner—Irving Selgel, 6235 S Street,
Andrews Place, Los Angeles.
Architect—Max Maltzman, Union Bk
Bld, Los Angeles.

Plans Being Prepared.
APARTMENTS Cost, \$—
OAKLAND, Alameda Co., Madison
and Lake Sts.
Alterations and Additions to Apts.
Owner—Empire Trading Co.
Architect—W. E. Schirmer, 700 21st
Oakland.

Contract Awarded.
APARTMENTS Cost, \$650,000
SAN FRANCISCO. California St. and
Joice St.
Eight-story Class A steel frame and
reinforced concrete apartments
(300 rooms).
Owner & Builder—Marlan Realty Co.,
110 Sutter St., San Francisco.
Architect—H. C. Baumann, 251 Kear-
ny St., San Francisco.

Incinerator—Kerner Incinerator Co.,
450 Clementina St., San Francisco.
Sub Bids Being Taken.
APARTMENTS Cost, \$175,000
OAKLAND, Alameda Co., Cal. No.
400 Perkins Street.
Six-story and basement steel frame
and brick apartments, 60 apts.; 2,
3 and 4 rooms).
Owner and Builder—Harry Schuster,
2124 Curtis St., Berkeley.
Architect—Wills Lowe, 354 Hobart
St., Oakland.

Sub Bids Being Taken
APARTMENTS Cost, \$250,000
SAN FRANCISCO. N Vallejo St. and
W Franklin St.
Six-story concrete apartments (two
basements, 45 3- and 4-room apts.)
Owner and Builder—W. Van Herick,
50 Laguna St.
Engineer—J. G. Little Company, 251
Kearny St.

Completing Plans.
APARTMENTS Cost, \$40,000
SAN FRANCISCO. S Jefferson St. W
Broderick.
Three-story and basement frame and
stucco apartments (6 5-room apts.)
Owner and Builder—Ben Liebman,
1555 Francisco St.
Plans by Laurence Ebbets, 320 Fulton
Street.
Automatic oil burning system, sepa-
rate showers, brick basement, steel
sash, etc Sub-bids will be taken in
one week.

Plans Being Completed.
APARTMENTS Cost, \$150,000
SAN FRANCISCO. Pacific Ave and
Baker St.
Three-story steel frame and concrete
semi-tireproof apartments (six 6-
room apts.)
Owner and Builder—W. R. Voorhies,
Inc., 369 Pine St., San Francisco.
Plans by A. D. Janssen, 369 Pine St.,
San Francisco.
Sub bids will be taken within one
week.

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**SKILSAW PORTABLE ELEC-
TRIC HAND SAW**
Will solve your cutting problems.
(Four Models, 1/2 to 1 h. p.)
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ELECTRIC DRILLS
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Tools.
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San Francisco 7662

BONDS

FRESNO, Fresno Co., Cal.—Mayor Z. S. Leymel urged election to vote bonds of \$1,000,000 to finance erection of a municipal auditorium

CHURCHES

Preparing Plans
SCHOOL & RECTORY Cost, \$—
LOS ANGELES, Cal. Seventy-first St. and Van Ness Ave.

Two-story brick school and rectory. Owner—Roman Catholic Bishop of Los Angeles and San Diego (Rev. John O'Shea, Pastor). Architect—E. G. Martin, Chester Williams Bldg., Los Angeles.

Plans To Be Prepared.
CHURCH Cost, \$60,000
SANTA BARBARA, Santa Barbara Co., Cal. Anacapa St., bet. Islay and Valerio Sts.

Church plant. Owner—First Congregational Church (Rev. J. Minchin, Pastor), Santa Barbara.

Architect—Not Selected.
The educational unit will be erected first at a cost of about \$22,500. It will contain a Sunday school auditorium, classrooms, kitchen and social hall. The main church building and auditorium will be built later. Cost of the entire plant will be \$60,000.

Plans Being Figured By Selected List of Contractors.

NORTH OAKLAND, Alameda Co. CHURCH Cost, \$30,000
Two-story frame and brick veneer church (auditorium to seat 570). Owner—Colored Baptist Church. Architect—Charles W. McCall, 1404 Franklin St., Oakland.

Plans are being figured by C. H. Lawrence, 5321 Lawton St., Oakland; Harry C. Knight, 2265 Powell St., Oakland, and George Martin, 560 19th St., Oakland.

Sub-Bids Being Taken.
REMODELING Cost Approx., \$25,000
SAN FRANCISCO, California and Franklin Streets.

Remodel Sunday school basement. Owner—First Church of Christ Scientist. Architect—Henry H. Gutterson, 526 Powell St., San Francisco.

Contractor—Moore & Madsen, 557 Market St., San Francisco.

Preparing Working Drawings.
CHURCH Cost, \$65,000
PITTSBURG, Contra Costa Co., Cal. NW Black Diamond and W 8th St. Two-story reinforced concrete church with steel roof trusses (120x42-ft.). Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco; a Corp. Sole, (St. Peter Martyr Parish, Rev. Louis A. Nasselli, rector).

Architect—Arnold Constable, 580 Market St., San Francisco.
Will have full basement for Parish Hall and auditorium will seat 700. Will have stucco finish, tile roof and be of the Italian Romanesque style of architecture. Plans will be ready for bids about October 15.

Preparing Working Drawings.
CHURCH Cost, \$60,000
UPLAND, San Bernardino Co., Cal. Euclid Ave. and C Street.
Frame and stucco church (85x135 ft.) (to seat 700). California style.
Owner—Upland Methodist Church (Rev. J. A. Staveley, Pastor). Architect—Marsh, Smith & Powell, Architects Bldg., Los Angeles.

Plans Being Completed.
CHURCH Cost, \$100,000
SACRAMENTO, Sacramento Co., Cal. 39th and J Sts.
Two-story brick church. Owner—Roman Catholic Bishop (St. Stephen's Parish). Architect—Harry Devine, California State Life Bldg., Sacramento. Bids will be taken in about three weeks.

FACTORIES AND WAREHOUSES

Plans Being Completed.
ROCK WORK Cost, \$60,000
(steel and concrete work)
LIVERMORE, Alameda Co., Cal. Additional work at rock crusher plant. Owner—Kaiser Paving Company. Engineer—L. H. Nishkian, 525 Market St., San Francisco.
Bids Will Be Taken in About Two Weeks.

There will be considerable new machinery installed. Work on a portion of the plant is now under construction by Schuler & MacDonald, Oakland.

SAN FRANCISCO.—E. Anderson, 762 Clementina St., at \$2460 awarded contract by State Board of Harbor Commissioners to paint shed on Pier No. 28. Frank White, engineer, Ferry Bldg. Following is a complete list of the bids:
E. Burgess, \$2359.
A. B. C. Paint Co., \$2585.
Raphael Company, \$3172.
R. P. Paoli, \$3250.
Patterson Brothers, \$5195.
Christian DeMarta, \$3425.
W. G. Thompson, \$3617.
M. Williams & Son, \$3675.

Plans Being Completed.
CREAMERY Cost, \$—
SAN FRANCISCO, Eighteenth and York Sts. (137-6x200-ft.).
Two-story and basement class B concrete creamery (foundation laid for two additional stories to be added later).
Owner—Challenge Creamery and But-ter Assn., 307 Montgomery St.
Architect—Dodge Riedy, Pacific Bldg. Bids will be taken in about 3 weeks.

SAN FRANCISCO.—Until Sept. 16, 2 P. M., bids will be received by State Board of Harbor Commissioners, Ferry Bldg., for furnishing and installing 31 steel rolling doors for Pier No. 1. Frank White, Engineer, Ferry Bldg.

Plans Being Completed.
CLEANING PLANT Cost, \$14,000
BURLINGAME, San Mateo Co., Cal. Howard Avenue.

One-story reinforced concrete cleaning plant.
Owner—Edmond Bourne, 1211 Burlingame Ave., Burlingame.
Plans by Grimes & Schoening, Balovich Bldg., San Mateo.
Bids will be taken within a few days.

Plans Being Completed.
WAREHOUSE Cost approx. \$150,000
SAN FRANCISCO, Sansome and Val-lejo Sts.
Three-story reinforced concrete ware-house.
Owner—Poultry Producers of Central California, 700 Front St.
Architect—H. C. Baumann, 251 Kearny Street.
Bids will be taken in two weeks.

Plans Being Prepared.
MFG. PLANT Cost, \$60,000
SOUTH SAN FRANCISCO, San Ma-teo Co., Cal.
Manufacturing plant (manufacturing plates).
Owner—Pacific Coast Steel Co., 215 Market St., San Francisco.
Plans by Eng. Dept. of Owner.

Sub-Bids Being Taken.
FACTORY Cost, \$50,000
SAN FRANCISCO, McAllister Street near Fillmore St.
Two-story and basement class C concrete loft building (offices and factory).
Owner—Royal Show Case Company. Plans by Lawrence Ebbs, 320 Fulton Street.
Contractor—Spivock & Spivock Hobart Building.

Negotiations For Site Under Way.
MFG. PLANT Cost, \$75,000
WATSONVILLE, Santa Cruz Co., Cal. One-story brick vitamin manufacturing plant.
Owner—Leticine Vitamin Co., Inc., Watsonville.

Plans by Mr. Brositt, Eng. Dept. Chas. Dickens & Staff, 4 Key Route Arcade, Oakland.
Incorporators are: Dr. Chas. Dickens of Oakland; H. F. Boyer, James T. Mann, Harry B. Sears, Ned B. Strong and James R. Cutler of Watsonville, and W. W. Belchley of Oakland, oleomargarine manufacturer. Bids will be called for shortly.

Plans Being Figured.
LABORATORY Cost, \$—
BAY POINT, Contra Costa Co., Cal. Steel laboratory building and switch house.
Owner—Shell Oil Co., Shell Oil Bldg., San Francisco.
Plans by Eng. Dept. of Owner, N. W. Thompson, chief engineer.

Bids are being received by H. C. Goldstone, Shell Oil Co., San Francisco

Bids Will Be Taken in About One Week.
HANGAR, ETC. Cost, \$100,000
ALAMEDA, Alameda Co., Cal., Webster St.
All-steel hangar and administration building (120x440 ft.).
Owner—Alameda Bay Airdrome (R. U. St. John, field manager).
Architect—Not Given.
The structure will be 120 by 440 feet and will house shops and offices, in addition to providing plane storage space for 70 small planes or 15 tri-motored transports.

Plans Being Figured.
CLEANING PLANT Cost, \$14,000
BURLINGAME, San Mateo Co., Cal. Howard Avenue.
One-story reinforced concrete cleaning plant.
Owner—Edmond Bourne, 1211 Burlingame Ave., Burlingame.
Plans by Grimes & Schoening, Balovich Bldg., San Mateo.

Contract Awarded.
WAREHOUSE Cost, \$65,000, ap.
SAN FRANCISCO, Howard St., near 7th.
Two-story and mezzanine floor offices and warehouse.
Owner—Julius Harband, 1053 Howard St.
Engineer—A. C. Griewank, 208 Mission St.

Contractor—Schultz Construction Co.

Ornamental Iron Contract Awarded.
ALTERATIONS Cost, \$15,000
SAN FRANCISCO, SW Eleventh and Mission Streets.
Alterations to greasing sales shop and two one-story and mezzanine floor buildings.

Owner—J. H. & H. Herbst, 1524 Mission St., San Francisco.
Engineer—N. B. Green, Sharon Bldg., San Francisco.
Contractor—F. R. Siegrist, 604 Mission St., San Francisco.
Ornamental Iron—Patterson & Foster Iron Works, 280 13th St., San Francisco.

Plans Being Prepared.

PLANT Cost, \$—
KING CITY, Monterey Co., Cal.
 One-story fireproof production plant
 (60x30; Mfg. Milk Products).
 Owner—The Lactol Corp., 203 California St., San Francisco.
 Architect—Eng. Dept. of Owner.
 Work will be done by day's labor by owner.

Plans Being Completed.

WAREHOUSE Cost, \$50,000
SAN FRANCISCO. NW Carroll and Newhall Streets
 One-story steel frame and concrete warehouse (southside crane and runway).
 Owner—Truscon Steel Co., Call Bldg., San Francisco.
 Architect—Eng. Dept. of Owner.
 Segregated bids will be taken in thirty days. Building permit has been applied for.

SAN FRANCISCO—Eugene A. Treacy, vice-president of the National Union Radio Corporation, is in the San Francisco Bay District conferring with the Chambers of Commerce regarding the establishment of a plant for the manufacture of radio tubes. A plant costing \$500,000 is contemplated.

FLATS

Sub-Bids Being Taken.
APARTMENTS Cost, \$45,000
SAN FRANCISCO. N side North Point 90 ft. E Broderick.
 Three-story frame and stucco apts. with brick basement (12 3-room apts.).
 Owner & Builders—Robinson—Johnson, 871 31st Avenue.
 Plans by Lawrence Ebbs, Call Bldg. Will have steam heating system, Kewanee boilers, composition 10-year roof and terra cotta tile, Kelvinator refrigeration, canvas walls and ceilings.

Sub-Bids Being Taken.
FLATS Cost, \$15,000
SAN FRANCISCO. S Cabrillo Street E 19th Ave.
 Two-story and basement frame and stucco flats (two 6-room flats).
 Owner and Builder—M. P. Storheim, 475 Euclid Ave.
 Plans by Lawrence Ebbs, 320 Fulton St., San Francisco.

Plans Being Figured—Bids Close Sept. 2d.
FLATS Cost, \$12,500
SAN FRANCISCO. Marina Blvd. and Pierce St.
 Two-story and basement frame and stucco flats (two 6-room flats).
 Owner—Edward Baron.
 Architect—Wm. J. Garren, deYoung Bldg., San Francisco.
 Bids are being taken for a general contract excepting painting, plumbing and heating.

GARAGES AND SERVICE STATIONS

Plans Being Prepared—Contract Awarded.
GARAGE Cost, \$—
HILLSBOROUGH, San Mateo Co., Cal.
 Two-story frame and stucco garage (chauffeur's quarters, etc.).
 Owner—Robert Miller.
 Architect—Withheld.
 Contractor—Charles Stockholm, Russ Bld., San Francisco.

Sub-Bids Being Taken.
ALTERATIONS Cost, \$50,000
SAN FRANCISCO. No. 860 Howard Street.
 Alterations and additions for rein-

forced concrete auto sales building.
 Owner—Pacific Gillespie System, Inc., 852 Howard St., San Francisco.
 Architect—Eng. Dept. of Owner.
 Lessee—Mustar Walt Motors (Ford Agency), 270 7th St.,
 Contractor—Villadsen Bros., 417 Market St., San Francisco.
 Excavating—Meyer Rosenberg, 1755 San Bruno Ave., San Francisco.
 Sub-bids are being taken on all other portions of the work.
 As previously reported, wrecking done by Vassallo & Gammillion, 1762 Newcomb St., San Francisco.

Construction To Start Immediately.
GARAGE Cost, \$300,000
LOS ANGELES, Cal. No. 432-34 S. Hope Street
 Six-story Class A steel and concrete garage (150x50 feet).
 Owner—Southern California Edison Co., 1200 N. Main St., Los Angeles.
 Architect—Allison & Allison, California Reserve Bldg., Los Angeles
 Contractor—P. J. Walker Co., W. M. Garland Bldg., Los Angeles.

Owner Taking Bids.
ADDITION Cost, \$25,000
OAKLAND, Alameda Co., Cal. 6300 College Ave.
 One-story brick and steel frame addition to garage.
 Owner—L. C. Firestone, 6300 College Ave., Oakland.
 Architect—A. W. Smith, American Bldg., Oakland.

Sub-Contracts Awarded.
SERVICE STATION Cost, \$—
OAKLAND, Alameda Co., Cal., 19th and Franklin Sts.
 Brick service station.
 Owner—Standard Oil Co., 225 Bush St., San Francisco.
 Plans by Eng. Dept. of Owner.
 Contractor—Dudley De Velbes, 369 Pine St., San Francisco.
Roofing—General Roofing Co., 3985 Beach St., Oakland.
Lumber and Mill Work—Sunset Lumber Co., 400 High St., Oakland.
Concrete—J. H. Fitzmaurice, 354 Hobart St., Oakland.
Plumbing and Pipe Fitting—J. Pazio, 404 Castro St., Oakland.
Electrical Work—Scott Buttner Co., 19 Grand Ave., Oakland.
Brick Work—E. E. Dooley, 4122 Redding, Oakland.
Structural Steel and Misc. Iron—Judson Pacific Co., 609 Mission St., San Francisco.
Sheet Metal Work—J. C. Owens, 1612 Carleton St., Oakland.
Steel Sash—Michel & Pfeffer Iron Works, Harrison & 10th Sts., San Francisco.

Contract Awarded.
STATION Cost, \$8000
SAN FRANCISCO. SE Monterey Blvd. and Genesee St.
 One-story steel frame gasoline service station.
 Owner—General Petroleum Co., 319 Sansome St., San Francisco.
 Architect—Eng. Dept. of Owner.
 Contractor—Gaugley & Yant, 299 22nd Ave., San Francisco.

Working Drawings Being Prepared.
GARAGE Cost approx. \$30,000
BERKELEY, Alameda Co., Cal. Oxford St.
 One-story Class C concrete garage and service station.
 Owner—Regents of University of California, Berkeley.
 Architect—W. H. Ratcliff, Jr., Chamber of Commerce Bldg., Berkeley.
 Lessee—Richfield Oil Company.

Sub-Contracts Awarded.
GARAGE Cost Price, 14 1/2
BERKELEY, Alameda Co., Cal. Durant and Fulton Streets.
 One-story reinforced concrete frame and salesroom.
 Owner—Victor H. Doyle, 71 Oak Ridge Road, Berkeley.
 Architect—Frederick H. Ransom, Franklin Bldg., Oakland.
 Contractor—F. C. White, 10 Glen Alpine Road, Piedmont.
Masonry—S. P. Ashley, 545 Clifton St., Piedmont.
Reinforcing Steel—McGrath Steel Co., 351 Hobart St., Oakland.
Mill Work—Emeryville Mill, Emeryville.
Lumber—Sunset Lumber Co., 400 High St., Oakland.
Structural Steel—Union-Pacific Co., 609 Mission St., San Francisco.
Plaster—J. Rinaldi, 836 52nd St., Oakland.
Steel Sash—Michel & Pfeffer, Harrison and Tenth Sts., San Francisco.
Electric—Dimond Electric Co., 210 Hopkins St., Oakland.
Tile Work—Rigney Tile Co., 3912 Harrison St., Oakland.
Plumbing—J. A. Pazio, 402 Castro St., Oakland.
Glazing—W. P. & Fuller & Co., 159 Tenth St., Oakland.
Roofing—General Roofing Co., 3985 Beach St., Oakland.
Cast Cement—Fred Ferrero, 1715 Webster St., Oakland.
Sheet Metal—Golden Gate Sheet Metal Works, 1515 14th St., Oakland.

EL CERRITO, Contra Costa Co., Cal.—Union Oil Co., at \$65 submitted low bid to city trustees to furnish and install gasoline pump at municipal garage. Shell Oil Co. at \$60.72 only other bidder, pump not installed.

GOVERNMENT WORK AND SUPPLIES

POINT REYES, Cal.—Until September 10, 11 A. M., under Specification No. 6305, bids will be received by the Public Works Officer, Mare Island Navy Yard, for a septic tank, repairs to plank road and a fire protection system at the U. S. Naval Radio Compass Station at Pt. Reyes. Specifications obtainable from the Commandant at the Mare Island Navy Yard on deposit of \$5, returnable; checks for same to be made payable to the Chief of the Bureau of Yards and Docks.
 See call for bids under official proposal section in this issue.

BENICIA, Solano Co., Cal.—Until Sept. 4, Under Circular 18, bids will be received by the commanding officer Benicia Arsenal to furnish and deliver 123,600 ft. white cotton sash cord. Specifications obtainable from above.

PHOENIX, Ariz.—Until September 13, 2 P. M., bids will be received by John R. Brown, superintendent, U. S. Indian School, to furnish and deliver 1000 bags of Portland cement. For further information obtainable from above.

SAN FRANCISCO—Until September 3, 10 A. M., under Schedule No. 23-31-55, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to repair and replace in serviceable condition 21 gaskets, by installing new gaskets in same. Contractor to furnish gaskets and all other materials. Further information obtainable from above.

PALO ALTO, Santa Clara Co., Cal.—Following bids received by the Post-office Department, Washington, D. C., to furnish site for proposed new post-office:

J. F. Parkinson, SE corner of High St. and Channing Ave., \$33,000.
Hobart & Engle Realty Co., SE corner of Cowper St. and Hamilton Ave., \$58,000.

Henry J. B. Callcott, corner lot 20 (no location indicated), \$65,000.

Sullivan Realty Co., lot bounded by High St., Everett Ave. and Emerson St., \$35,000.

W. H. Kelly, NW corner of High St. and Everett Ave., \$38,500.

W. H. Kelly, NE corner of High St. and Everett Ave. extending to Emerson St., \$57,000.

W. H. Kelly, block bounded by Forest Ave., Emerson and Ramona Sts., \$57,500.

Hobart and Engle Realty Co., Cowper St. and Hamilton Ave., \$92,270.

Hobart and Engle Realty Co., NE corner of Hamilton Ave. and Waverley St., \$73,500.

University Realty Co., lot bounded by Webster St., University Ave. and Byron St., \$98,850.

Hare, Brewer & Clark, block bounded by Waverley and Gilman Sts. and Hamilton Ave., \$90,500.

Hare, Brewer & Clark, block bounded by Emerson St., Lyon Ave. and Ramona St., \$70,000.

Frank G. Hoge Co., SE corner of Homer Ave. and Bryant St., \$42,000.

EUREKA, Humboldt Co., Cal.—Until September 10, 11 A. M., under Specification No. 6304, bids will be received by Public Works Officer, Mare Island Navy Yard, for fire protection pipe lines and hose couplings and a septic tank at the U. S. Naval Radio Compass Station at Eureka. Specifications obtainable from the Commandant of the Mare Island Navy Yard on deposit of \$5, returnable; checks for same to be made payable to Chief of the Bureau of Yards and Docks.

See call for bids under official proposal section in this issue.

SAN FRANCISCO—Following bids received by Constructing Quartermaster, Fort Mason, to extend street lighting system and install new street lighting standards at Letterman General Hospital:

(1) lights; (2) installing; (3) job complete.

P. Grassi & Co., 1945 San Bruno Ave. (1) \$39; (2) \$—; (3) \$—.
City Improvement Co. (1) \$1638; (2) \$3011; (3) \$4649.

Butte Elec Mfg. Co. (1) \$1810 (type of lights); \$2238 (diff. type of lights); (2) \$2290; (3) \$4300 (complete with one type of lights); (4) \$4100 (complete with other type of lights).

Westinghouse Elec. & Mfg. Co. (1) \$1332; (2) \$—; (3) \$—.

A. C. Rice (1) \$1950; (2) \$2350; (3) \$4300.

Globe Electric Co. (1) \$2157; (2) \$2330; (3) \$4265.

Brayer Electric Co. (1) \$2219; (2) \$2946; (3) \$5165.

H. C. Reid & Co. (1) \$2253; (2) \$2126; (3) \$4300.

Severin Electric Co. (1) \$2900; (2) \$—; (3) \$—.

Bids held under advisement.

SAN FRANCISCO—Until September 2, 10 A. M., under Schedule No. 923-31-54, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver miscellaneous parts for Continental "N" motor, for G.M.C. truck. Further information obtainable from above.

Bids Opened.

QUARTERS

Cost, \$—

PORT LEWIS, Washington.

Five Field Officers Quarters and 22 Non-Commissioned Officers' Quarters.

Owner—U. S. Government.

Architect—Constructing Quartermaster, Fort Lewis, Wash.

Following is a complete list of the bids received:

Field and Company Officers House
William T. Post\$203,000

McDonald Building Co., Tacoma\$203,195

Neil McDonald\$208,500

Matsen Construction Co.\$218,300

Thomas Holmberg\$234,404

Elvind Anderson\$238,658

Chrisman & Snyder\$243,745

Commercial Construction Co.\$244,297

Bailey Construction Co.\$246,000

Shelb Construction Co.\$248,419

Steiro & Hansen\$249,975

West Coast Construction Co.\$249,975

Harry Boyer & Son\$251,150

Knoel & Westerfield\$260,838

Heden Construction Co.\$272,000

Non-Commissioned Officers' Quarters

McDonald Building Co.\$139,225

Matsen Construction Co.\$143,190

H. J. & Dan Solle\$149,600

William T. Post\$151,000

Chrisman & Snyder\$153,482

Commercial Construction Co.\$154,946

Steiro & Hansen\$156,354

Heden Construction Co.\$159,700

William Wills\$159,900

Bailey Construction Co.\$160,600

West Coast Construction Co.\$160,985

Harry Boyer & Son\$161,639

Dolph Jones\$163,600

Knoel & Westerfield\$171,200

Neil McDonald\$187,500

Shelb Construction Co.\$190,600

Bids held under advisement.

NICOLAUS, Sutter Co., Cal.—Until

Sept. 23, 3 P. M., under Circular Proposal No. 31-57, specification 2260, bids

will be received by the U. S. Engineer Office, California Fruit Bldg., to construct approximately 8700 ft. of levee

on the left bank of the Feather River near the "Lake of the Woods," about

one mile above the mouth of the Bear River in Yuba County and approxi-

mately three miles up stream from the town of Nicolaus. Specifications

obtainable from above.

STOCKTON, San Joaquin Co., Cal.—Until Sept. 2, 3 P. M., under Circular

Proposal No. 31-59, Specification 2347, bids will be received by U. S.

Engineer Office for clearing brush and trees from the area of Item 306, at

Rough and Ready Island along the

west bank of the San Joaquin River, between the mouth of Stockton Channel and Burns Cut-Off, a distance of about 3½ miles below the city of Stockton. Specifications obtainable from above.

BLAINE, Wash.—Johnson Bros., 1716 E 56th St., Seattle, at \$1,206,000 submitted low bid to Supervising Architect, Treasury Department, Washington, D. C., to erect U. S. Customs and Immigration Inspection Station Buildings at Pacific Highway Site and Peace Arch Site at Blaine, Wash.

STOCKTON, San Joaquin Co., Cal.—Until Sept. 2, 3 P. M., under Circular

Proposal No. 31-58, Specification No. 2344, bids will be received by U. S.

Engineer Office, California Fruit Bldg., Sacramento, for clearing brush

and trees from the area of Item 303 along the east bank of the San Joa-

quin river, between the mouth of Stockton Channel and Smith Canal,

a distance of about 2 miles below the city of Stockton. Specifications ob-

tainable from above.

SACRAMENTO, Cal.—Until Sept.

3, 3 P. M., under Order No. 2358-1689, bids will be received by U. S. En-

gineer Office, California Fruit Bldg., Sacramento, to furnish and deliver

dredge spuds (a) 4 spuds, f. o. b. railroad cars at mill or shipping

point of bidder; (b) 4 in water ready for towing at Sacramento, San Fran-

cisco, or other local delivery points accessible to government tow boats

operating from Rio Vista; (c) 4 in water at U. S. Engineer Wharf at

Rio Vista. Specifications obtainable from above.

Contract Awarded.

HOSPITAL Cost, \$187,000

MARCH FIELD, Riverside, Cal.

Two-story and basement hospital (hollow concrete wall construction, reinforced concrete joists

and floor slabs, stone and granite trim, tile roof) (167x95 feet).

Owner—United States Government.

Architect—Constructing Quartermaster, March Field, Riverside.

Contractor—Los Angeles Contracting Co., 4816 W. Pico St., Los Angeles

The twelve non-commissioned officers' quarters will be one-story

each, containing four room and bathroom; hollow concrete wall construction

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WASHINGTON, D. C.—Bids are being received by Bureau of Supplies & Accounts, Navy Department, Washington, D. C., to furnish and deliver miscellaneous supplies and equipment as noted in the following schedules, further information being available from the Navy Department Officer, 100 Harrison St., San Francisco:

Bids Open Sept. 2
Puget Sound, 18 bread boxes; Puget Sound, 50 steel cooks' forks; Puget Sound, 288 skimmers; San Diego, 140 steel basting spoons; Puget Sound, 100 do, sch. 3951.

Western yards, silver-plated ware; nickel-silver tableware; sch. 3959
Western yards, lettering mapping and writing pens; sch. 3958.

Western yards, pencils; sch. 3957.
Puget Sound, 15 rolls cross section paper; sch. 3963.

Western yards, printing, writing, stamp pad, duplicating machine and numbering machine ink; sch. 3969.

Bids Open Sept. 9
Mare Island, 220 plate-glass mirrors; sch. 3962.

Mare Island, 100 bedside locker tables; 4 medicine and supply cabinets; 6 invalid chairs; and 2 wheel stretchers; sch. 3960.

Puget Sound, 2 oil engine generating units; sch. 3962.

Mare Island, 6 valve reseating outfits; sch. 3964.

San Diego, 430 pencil sharpeners; Puget Sound, 500 do; sch. 3971.

San Diego, 800 steel shears; Puget Sound, 2280 do; sch. 3972.

San Diego, 72 automatic numbering machines; Puget Sound, 45 do; sch. 3973.

Puget Sound, 50,000 lbs. pig lead; sch. 3990.

BERKELEY, Alameda Co., Cal.—Post Office Department has accepted the \$40,000 bid of the Lankershim Estate for a site with a 178-foot frontage on Kittredge street and 107 feet on Milvia street on which it is proposed to erect an annex to the post office for which \$150,000 is available. A two-story Class A annex will be erected.

LOS ANGELES, Cal.—Wm. A. Newman, superintendent engineer of the U. S. Treasury Department, has stated that bids for the construction of the new Federal building at Third St. and American Ave. will be opened before December 31 and construction started within 60 days thereafter. The structure will represent an investment of approximately \$1,250,000.

POINT MONTARA, Cal.—Until September 10, 11 A. M., under Specification No. 6306, bids will be received by Public Works Officer, Mare Island Navy Yard, for completion of picket fence, added fire protection, replacement of coal shed and enclose porches at the quarters of the radio personnel at the Naval Radio Compass Station at Point Montara. Plans obtainable from the Commandant at the Mare Island Navy Yard on deposit of \$5, returnable; checks for plans to be made payable to the Chief of the Bureau of Yards and Docks.

See call for bids under official proposal section in this issue.

BENICIA, Solano Co., Cal.—Until Sept. 4, under circular 19, bids will be received by the Commanding Officer, Benicia Arsenal, to furnish and deliver 1200 rolls iron wire. Specifications obtainable from above.

HALLS AND SOCIETY BUILDINGS

Wharf Contract Awarded.
CLUB HOUSE Cost, \$60,000
RELEVÉ-DEKE, Marin Co., Cal.
One-story frame and stucco club house
Owner—San Francisco Yacht Club
Architect—H. H. Guttererson, 526 Powell St., San Francisco.

Wharf—San Francisco Bridge Co., Nevada Bank Bldg., San Francisco.

General bids will be taken in about thirty days.

Bids Opened—Held Under Advice
ALTERATIONS Cost, \$—
OAKLAND, Alameda Co., Cal. No. 723
Fourteenth St.
Alterations and additions to Jewish Community Center.

Owner—Jewish Federation, premises.
Architect—W. E. Schirmer, 700 21st St., Oakland.

Preparing Working Drawings.
RECREATION BLDG.

Cost, approx. \$50,000
SAN JOSE, Santa Clara Co., Calif.
W. Santa Clara St.
One and one-half story steel frame and brick recreation building.
Owner—C. H. Kamm.
Architect—W. H. Weeks, Hunter-Du-lin Building, San Francisco, 1736 Franklin St., Oakland, and Bank of Italy Bldg., San Jose.
Lessee—O. J. Forman, San Jose.

Plans Being Completed.
CLUB HOUSE Cost, \$—
SANTA CRUZ, Santa Cruz Co., Calif.
Pasatiempo Golf Club site.
One-story brick club house.
Owner—Santa Cruz Development Co., Santa Cruz, R. A. Howe in charge
Architect—Clarence Tantau, Shreve Bldg., San Francisco.
Bids will be called for shortly.

Plans Being Completed.
LODGE Cost, \$7500
SACRAMENTO, Sacramento Co., Cal.
Camp Sacramento.
One-story frame and stucco Lodge building.
Owner—City of Sacramento.
Architect—Chas. Dean, Realty Bldg., Sacramento.
Work will be done by day's work.

Contract Awarded.
GYMNASIUM Cost, \$14,500
VALLEJO, Solano Co., Cal. York and Santa Clara Sts.
One-story hollow tile gymnasium (90x56-ft.)
Owner—Naval Y. M. C. A. (H. E. Cunningham, manager), Vallejo.
Architect—Eng. Dept. of Owner, New York.
Contractor—Frank Lamb, Vallejo.

Just Opened
GYMNASIUM Cost \$14,500
VALLEJO, Solano Co., Cal. York and Santa Clara Sts.
One-story rough brick gymnasium (90x56-ft.)
Owner—Naval Y. M. C. A. (H. E. Cunningham, manager), Vallejo.
Architect—Eng. Dept. of Owner, New York.

Alt. No. 1, using hollow tile.
Alt. No. 2, using concrete block.

Following is a complete list of the bids received:
Frank Lamb, Vallejo, \$14,500; (1) — (2) —

J. E. Fuller, Vallejo, \$15,300; (1) \$14,750; (2) \$14,950.

James Biteon, Vallejo, \$14,600; (1) \$16,385; (2) \$14,548.

S. J. Weeks, Vallejo, \$16,490; (1) \$15,896; (2) \$16,319.

Clinton Stephenson Construction Co., San Francisco, \$16,982; (1) \$16,497; (2) \$16,494.

George Barenci, Vallejo, \$17,377; (1) \$17,377; (2) —.

Bids held under advisement until Aug. 29, 1930.

Plans Being Figured—Bids Close Sept. 12.
CLUB Cost \$400,000
LONG BEACH, Los Angeles Co., Cal., Cedar Ave.
Three-story reinforced concrete club (\$8x150 ft.)

Owner—B. P. O. Elks No. 888
Architects—W. Horace Austin and Schilling & Schilling, associated, Long Beach.
Construction will be reinforced concrete, stone exterior, steel mesh steam heating system, two elevators, tile and marble work, ornamental iron, cement, pine and maple floors, bronze doors, painting and decorating, etc.

Construction Started.
LODGE BLDG. Cost, \$10,000
ESCALON, San Joaquin Co., Cal.
Two-story brick Class C lodge building (banquet hall, kitchen and lodge rooms).

Owner—Masonic Lodge.
Architect — Davis-Pearce Co., Grant and Weber Sts., Stockton.
Contractor—John Cavanaugh, 219 N. Sutter St., Stockton.
Plumbing—C. Bratton, Escalon, at \$567.

Plans Being Figured.
RECREATION BLDG. Cost, \$100,000
EUREKA, Humboldt Co., Cal.
Two-story reinforced concrete recreation building (swimming pool, bowling alleys, etc.)

Owner—Interstate Recreation Corp. Ltd., J. B. Munger, President.
San Francisco, President.
Architect—Joseph L. Stewart, Federal Reserve Bank Bldg., San Francisco.

“Gold Medal” Safety Scaffolding

for use on steel and concrete frame buildings, saves lives, time and money

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The Patent Scaffolding Company

270—13th St., San Francisco Phone Hemlock 4278

Lessor of Suspended and Swinging Safety “Gold Medal” Scaffolding.

HOSPITALS

Plans Being Figured.—Bids close September 29, 11 A. M.
HOSPITAL Cost, \$300,000
STOCKTON, San Joaquin Co., Cal.
 Class A brick or concrete county general hospital.

Owner—County of San Joaquin.
 Architect—Fred H. Meyer, 742 Market St., San Francisco.
 Consulting Architect—Davis - Pearce Co., Grant and Weber Sts., Stockton.

(1) General Contract Work.
 (2) Plumbing Work.
 (3) Mechanical Equipment.
 (4) Electric Work.
 Certified check 10% payable to Chairman of the Board of Supervisors required with bid. Plans obtainable from the architects on deposit of \$100 for each segregation; deposit is returnable.

Plans Being Prepared.
ADDITION Cost, \$75,000
TUCSON, Arizona. St. Mary's Hospital
 Reinforced concrete and brick addition to hospital.
 Owner—St. Mary's Hospital.
 Architect—M. H. Starkweather, Tucson, Arizona.
 Bids will be taken about Sept. 15.

Prospective Bidders.
HOME Cost, \$50,000
OAKLAND, Alameda Co., Cal. East Twenty-ninth St.
 Two-story Class C concrete Home for Aged.
 Owner — Salem Lutheran Benevolent Assn., Oakland.

Architect — Henry H. Guttererson, 526 Powell St., San Francisco.
 Following is a list of contractors who have secured plans:

A. Cedarborg, 1045 Excelsior Ave., Oakland.
 Joel Johnson & Son, 666 Mission St., San Francisco.
 Fred J. Westlund, 354 Hobart St., Oakland.
 Thollander Construction Co., 749 Bryant St., San Francisco.
 Emil Person, 829 San Luis Rd., Oakland.
 Dyer Construction Co., 1924 Broadway, Oakland.

Monson Bros., 475 6th St., S. F.
 David Nordstrom, 354 Hobart St., Oakland.
 Sommerstrom Bros., 2924 San Pablo Ave., Oakland.
 S. G. Johnson 4652 Dolores Ave., Oakland.

Bids are to be opened Sept. 4th, 2 P. M.

SAN FRANCISCO, Cal.—Worley & Co., 39 Natoma Street, at \$1,356, submitted lowest bid to city purchasing agent, 270 City Hall, to furnish and deliver tables and lockers for Laguna Honda Home.

Following is a complete list of the bids received:
 Worley & Co. \$1,356
 C. J. Hillard Co. \$1,485
 H. R. Clark \$1,499
 H. M. Schicks Prod. Co. \$1,672
 A. H. Meys \$1,695
 All Steel Equipment Co. \$1,700
 (Del. in 30 days), \$15,000; Del. in 50 days.)
 Berger Mfg. Co. \$1,799
 C. J. Waterhouse \$1,890
 Bids held under advisement.

Preparing Preliminary Plans.
DETENTION HOME Cost, \$30,000
SAN LUIS OBISPO, San Luis Obispo Co., Cal.
 One and two-story brick detention home.
 Owner—City of San Luis Obispo.
 Architect—Wm. Mosser, 14 Montgomery St., San Francisco.

Preparing Preliminary Plans.
TUBERCULAR HOME Cost, \$10,000
SAN LUIS OBISPO, San Luis Obispo Co., Cal.
 One-story and basement brick tubercular home.
 Owner—City of San Luis Obispo.
 Architect—Wm. Mosser, 14 Montgomery St., San Francisco.

Plans Being Prepared.
CUSTODIAL BLDG. \$—
SANTA BARBARA, Santa Barbara Co., Cal. County General Hospital.
 Custodial building (accommodations for 62 patients).
 Owner—County of Santa Barbara.
 Architect—Edwards & Plunkett, 20 E. Figueroa St., Santa Barbara.

EUREKA, Humboldt Co., Cal.—Troy Laundry Machinery Co., 1201 Folsom St., San Francisco, at \$7130 awarded contract by county supervisors to furnish and install equipment in new county hospital, recently completed.

Plans Being Figured.
HOME Cost, \$50,000
OAKLAND, Alameda Co., Cal. East Twenty-ninth St.
 Two-story Class C concrete Home for Aged.
 Owner — Salem Lutheran Benevolent Assn., Oakland.
 Architect — Henry H. Guttererson, 526 Powell St., San Francisco.

Low Bidder.
KITCHEN EQUIPMENT Cost, \$—
PALO ALTO, Santa Clara Co., Cal. Stanford University Campus.
 Furnish and install kitchen equipment in hospital.

Owner — City of Palo Alto, E. L. Beach, City Clerk.
 Architects and Engineers — Reed & Corlett, 1801 Oakland Bank Bldg., Oakland.

Low Bidder—Mangrum Holbrook Co., 1235 Mission St., San Francisco.
 Contract to be awarded Sept. 2.

Low Bidder.
LAUNDRY EQUIP. Cost, \$—
PALO ALTO, Santa Clara Co., Calif. Stanford University Campus.
 Furnish and install laundry equipment for hospital.

Owner—City of Palo Alto, E. L. Beach city clerk.
 Architects and Engineers — Reed and Corlett, 1801 Oakland Bank Bldg., Oakland.

Low Bidder—American Laundry Machinery Co., 921 Howard St., San Francisco.
 Contract to be awarded Sept. 2nd.

Preparing Sketches.
SANITARIUM Cost, \$1,000,000
RIVERSIDE, Cal. Orange Drive.
 Sanitarium (hotel, swimming pool, hospital, etc.)
 Owner — California Mission Springs Sanitarium.
 Architect—Hillier & Sheet, Story Bldg., Los Angeles.

HOTELS

Plans Being Prepared.
HOTEL Cost, \$250,000
SAN FRANCISCO, Pine St. bet. Powell and Stockton Sts.
 Sixteen-story steel frame and concrete hotel.
 Owner—Shell Drake Hotel Co.
 Architect—H. C. Baumann, 251 Kearny Street.
 Plans will be ready for bids in two weeks.

Construction Indefinitely Postponed.
HOTEL Cost, \$150,000
SAN FRANCISCO. Hyde St. between Turk and Eddy Sts.
 Six-story reinforced concrete hotel.
 Owner and Builder—Bell Bros., Mills Building.
 Architect—E. H. Denke, 1317 Hyde St.

Work Started.
RENOVATION Cost, \$50,000
SAN FRANCISCO. No. 17 Powell St. (Turpin Hotel).
 Interior renovation to hotel (painting, plastering, plumbing, elevators, etc.)
 Owner—Bank of Italy.
 Architect — H. A. Minton, Bank of Italy Bldg., Eddy and Powell Sts., San Francisco.
 Lessee—Consolidated Hotels, Inc., Ben Weingardt, President, Los Angeles.

Plans Being Figured — Bids Close Sept. 2.
HOTEL Cost, \$750,000
SEATTLE, Wash. East 45th St. and Brooklyn Ave.
 Fifteen-story Class A community Hotel, 115x125 ft. (156 hotel rooms)
 Owner—University Community Hotel Corp.
 Architect—R. C. Reamer, Stimson Bldg., Seattle, Wash.
 Bids are being received by the architect for a general contract; plumbing, heating and electric work.

POWER PLANTS

OAKLAND, Cal.—Engineers L'Hommiedieu and Wilson, Syndicate Bldg., Oakland, are taking bids for underground wiring in connection with the development of the old Idora Park property. The work will involve connecting up with the services of the Pacific Gas and Electric Company and the Pacific Telephone and Telegraph Company. Services for an ornamental street lighting system will also be installed. The work will involve an expenditure of \$20,000. Specifications are obtainable from the engineers.

Plans Being Completed.
LIGHT PLANT Cost, \$150,000
PASADENA, Los Angeles Co., Calif. Glenarm Street.
 Reinforced concrete municipal light plant (100x150-ft.)
 Owner—Pasadena Municipal Light Department.
 Architect—Bennett & Haskett, First Trust Bldg., Pasadena.
 Bids will be called for shortly.

Plans Being Figured.
POWER HOUSE Cost, \$30,000
MODESTO, Stanislaus Co., Cal. Stanislaus County Hospital.
 Two-story reinforced concrete and hollow tile power house (unit 3).
 Owner—County of Stanislaus.
 Architect—Russell Guerne De Lappe, 1710 Franklin St., Oakland.
 Three weeks will be allowed for figuring the plans.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

Bids Wanted—To Be Opened Sept. 30, 10 A. M.
JAIL ANNEX Cost, \$275,000
VENTURA, Ventura Co., Cal.
 Three-story reinforced concrete county jail and courthouse annex (connected by bridge).
 Owner—County of Ventura.
 Architect—Harold E. Burkett, 455 E. Main St., Ventura.
 Bids will be taken separately on general work, electrical work, plumbing, heating and jail steel work.

Preliminary Plans Being Prepared.
ARMORY Cost, \$40,000
YUBA CITY, Sutter Co., Cal.
 One-story and basement reinforced concrete Mission type armory (tile roof).
Owner—State of California.
Architect—State Department of Public Works, Division of Architecture, Public Works Bldg., Sacramento.

Contract Awarded.
LIBRARY Cost, \$65,000
BURLINGAME, San Mateo Co., Cal.
 One-story concrete library (tile roof).
Owner—City of Burlingame, J. R. Murphy, City Clerk.
Architect—E. L. Norberg, 580 Market St., San Francisco.
Contractor—Chas. Pederson, 734 Prospect A., San Mateo.
 Following is a complete list of the bids received:
 Chas. Pederson, 734 Prospect Ave., San Mateo\$47,360
 H. L. Petersen, San Francisco.....\$48,341
 J. Harold Johnson, San Francisco.....\$48,337
 C. H. Bessett Bldg. Co., Burlingame.....\$48,700
 Young & Horstmeier, San Francisco.....\$48,986
 G. W. Williams & Co., Burlingame.....\$49,295
 Vogt & Davidson, San Francisco.....\$51,473
 J. W. Cobby & Son, San Francisco.....\$52,368

Plumbing and Heating
J. W. Forsythe, Burlingame.....\$7,581
H. R. Park, Burlingame.....\$8,089
Morrison & Blair, Burlingame.....\$8,357
Scott Co., San Francisco.....\$8,393
F. W. Regan.....\$8,521
Plumbing and Heating Bids Rejected
Stacks
Snead & Co., San Francisco.....\$3,969
Remington Rand Co., San Francisco.....\$4,581
C. J. Hillard, S. F......\$5,500
 Two low bids under advisement.

Plans Being Prepared.
POST OFFICE Cost, \$20,000
REDWOOD CITY, San Mateo Co., Cal., Webster and Theatre Sts.
 One-story reinforced concrete Post-office.
Owner—General Properties, Inc., Redwood City.
Plans By Wm. H. Rowe, 1535 Vancouver line, Burlingame.
Leasee—U. S. Government.

Bids Opened.
LIBRARY Cost, \$—
BERKELEY, Alameda Co., Cal. SW Shattuck Ave. and Kittredge St.
 Furnish and install furnishing and technical equipment for new Main Public Library.
Owner—City of Berkeley, Florence E. Turner, City Clerk.
Architect—James W. Plachek, Mercantile Trust Bldg., Berkeley.
 Following is a complete list of bids:
 R. Brandt & Co., 2141 Bryant St., San Francisco.....\$24,105
 M. G. West Co., San Francisco.....\$25,615
 C. F. Weber Co., S. F.\$30,000
 Remington Rand Co., S. F.\$30,000
 Braas Kuhn Co., S. F.\$30,395
 Gunn Furniture Co., S. F.\$31,332
 Bids held under advisement. There were several alternates submitted, which, if accepted, will alter the figures considerably.

RESIDENCES

Bids In—Held Under Advisement.
RESIDENCE Cost, \$20,000
SAN FRANCISCO Miraloma Drive.
 Two-story and basement frame and stucco residence.
Owner—E. B. Ward, Tenth and Howard Sts., San Francisco.
Architect—Clarence Smale, Los Angeles.

Plans Being Completed.
RESIDENCE Cost, \$12,000
SAN FRANCISCO, Westgate Drive, near Darien Way.
 Two-story frame and stucco residence (11 rooms, 3 baths).
Owner—S. K. Anderson, 1433 7th Ave.
Plans By D. E. Jackle, Call Building.
 Sub bids will be taken in one week.

Plans Being Figured.
RESIDENCE Cost, \$—
RICHMOND, Contra Costa Co., Cal., Nevin Ave.
 Two-story frame and stucco residence.
Owner—Y. Nelson, Nevin and San Pablo Ave., Richmond.
Architect—James Narbett, 466 31st St., Richmond.
 Bids are being received by Architect and owner.

Plans Being Figured.—Bids Close
 Sept. 2d.
RESIDENCE Cost, \$10,000
LOS ALTOS, Santa Clara Co., Cal.
 One and two-story frame and stucco residence.
Owner—Franz Bloch.
Architect—E. E. Young, 2002 California St., San Francisco.
Agent—R. F. Cassidy, 1419 18th St., San Francisco.
 Bids are being taken by Agent.

Contract Awarded.
RESIDENCE Cost, \$15,000
BERKELEY, Alameda Co., Cal., 793 San Diego Ave.
 Two-story frame and stucco residence (8 rooms).
Owner—H. A. Mulvany, 1524 Arch St., Berkeley.
Architect—Sidney, Noble & Archie Newsom, Federal Realty Bldg., Oakland.
Contractor—G. E. Rice, 1485 Hopkins St., Berkeley.

Sub-Bids Being Taken.
RESIDENCE Cost, \$80,000
ROSS, Marin Co., Calif.
 Two-story brick residence.
Owner—Norman Livermore, 85 2nd St., San Francisco.
Architect—Buxwell and Weihe, 251 Kearny St., San Francisco.
Engineer—Atkins and Parker, Hobart Bldg., San Francisco.
Contractor—Young & Horstmeier, 461 Market St., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$15,000
BERKELEY, Alameda Co., Cal. Park View.
 Two-story frame and stucco residence (11 rooms).
Owner—H. W. Bernheim, 266 Wildwood Ave., Berkeley.
Architect—E. L. Snyder, 2101 Addison St., Berkeley.
Contractor—Geo. Windsor, 928 Kings-ton, Oakland.

Sub-Bids Being Taken.
RESIDENCE Cost, \$16,000
SAN FRANCISCO, Monterey Blvd. near Gate.
 Two-story and basement frame and stucco residence (12 rooms and 3 baths; tile roof, tile finish, oil burners).
Owner and Builder—G. W. Stanley, 467 Turk St.
Plans By D. E. Jackle, Call Bldg.

Contract Awarded.
ALTERATIONS Cost, \$10,000
PALO ALTO, Santa Clara Co., Calif. 135 University Avenue.
 Interior alterations to residence.
Owner—W. C. Tholfs, 257 University Ave., Palo Alto.
Architect—None.
Contractor—Alf. S. Gough, 10 Washburn St., San Francisco.

Bids Opened—Held Under Advisement.
RESIDENCE Cost, \$7500
OAKLAND, Alameda Co., Cal. 81st Ave. near E 14th St.
 One-story and basement frame and stucco residence.
Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.
Architect—H. A. Minton, Bank of Italy Bldg., San Francisco.

Contract Awarded.
RESIDENCE Cost, approx. \$15,000
HILLSBOROUGH, San Mateo Co., Cal.
 Two-story and basement frame and stucco residence.
Owner—T. J. Hallinan.
Architect—Ed. Mussen Sharpe, 525 Market St., San Francisco.
Contractor—Oswald and Rucker, Mills Bldg., San Francisco.
 Construction will start in about two weeks.

Completing Plans.
RESIDENCE Cost, \$6000
BERKELEY, Alameda Co., Cal.
 Two-story frame and stucco residence (6 rooms).
Owner—P. Merrill.
Architect—Leonard H. Ford, 1435 Harrison St., Oakland.
 Segregated bids will be taken in a few days.

Plans Being Completed.
RESIDENCE Cost, \$15,000
SAN JOSE, Santa Clara Co., Cal.
 Two-story and basement frame and stucco residence.
Owner—M. Postlewith, 444 S 15th St., San Jose.
Architect—Blinder & Curtis, 35 W San Carlos St., San Jose.
 Bids will be taken in about 1 week.

Plans Being Completed.
RESIDENCE Cost, \$20,000
SAN JOSE, Santa Clara Co., Cal.
 Two-story and basement frame and stucco residence.
Owner—T. W. MacQuarrie, 309 S 8th St., San Jose.
Architect—Blinder & Curtis, 35 W San Carlos St., San Jose.
 Bids will be taken in about 1 week.

Contract Awarded.
RESIDENCE Cost, \$15,000
HEALDSBURG, Sonoma Co., Calif.
 Outside city limits.
 Two-story brick veneer residence (6 rooms).
Owner—F. J. Dowsett.
Architect—E. J. Osborne, Balboa Bldg., San Francisco.
Contractor—A. M. Hildebrand, Santa Rosa.
 Construction will start immediately.

Preliminary Plans Being Prepared.
RESIDENCES Cost each \$6000
MONTEREY, Monterey Co., Calif.
 Two 1-story and basement frame and stucco residences (5 rooms each).
Owner—Name Withheld.
Architect—G. L. Brown, American Bank Bldg., Oakland.

Plans Being Prepared.
RESIDENCE Cost, \$—
SAN CLEMENTE, Orange Co., Cal.
 Two-story frame and stucco residence with clay tile roof (25 rooms).
Owner—A. T. Smith.
Architect and Contractor—Butler Bros., Pacific National Bldg., Los Angeles.

Construction Indefinitely Postponed.
RESIDENCES Cost, \$50,000
SAN FRANCISCO, Seafair District.
 Three two-story and basement frame and stucco residences.
Owner—Allen & Co., 168 Sutter St., San Francisco.
Architect—Gen. McCrea, Hearst Bldg., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$18,000
SAN RAFAEL, Marin Co., Cal.
Two-story and basement frame and
stucco residence (9 rooms, 2 baths)
Owner—Harry Albert, 4th and B Sts.,
San Rafael.
Architect—S. Helman, 57 Post Street,
San Francisco.
Contractor—M. H. Vanderbilt, 115 H
Street, San Rafael.
Construction has just been started.

Contract Awarded.
RESIDENCE Cost, \$7000
OAKLAND, Alameda Co., 4219 De-
troit St.
One-story and basement frame and
stucco (5 rooms).
Owner—Marko Tomech, 326 Hobart
St., Oakland.
Contractor—A. M. Berg, 3854 Med-
vale Ave., Oakland.

Contract Awarded.
PARISH HOUSE Cost, \$18,000
OAKLAND, Alameda Co., Cal., St.
James Road.
Two-story frame and stucco parish
house.
Owner—Corpus Christie Parish.
Architect—W. E. Schirmer, 700 21st
St., Oakland.
Contractor—Sullivan & Sullivan, 2653
Best Ave., Oakland.

Following is a complete list of the
bids received:

General Work

Sullivan & Sullivan, Oakland.....\$18,999
Thomas Furlong, Oakland.....\$19,900
J. P. Brennan, Oakland.....\$20,726
Leibert & Tobeck, S. F.....\$22,737
S. Rasori, San Francisco.....\$23,180
Plastering
P. H. Donnelly, 3957 Oakland Rd.,
Oakland.....\$3,450
Wm A. Makin, Oakland.....\$3,550
Leonard Bosch, San Francisco.....\$3,730

To Be Done By Day's Work By

Owner
RESIDENCE Cost, \$8,500
BERKELEY, Alameda Co., 762 Hill-
dale Ave.
Two-story frame and stucco residence
(7 rooms).
Owner and Builder—Paul Merrill, 175
14th St., Oakland.

Segregated Bids Being Taken.

RESIDENCE Cost, \$6000
BERKELEY, Alameda Co., Cal.
Two-story frame and stucco residence
(6 rooms).

Owner—P. Merrill.
Architect—Leonard H. Ford, 1435 Har-
rison St., Oakland.

Sub Bids Being Taken.

RESIDENCE Cost, \$16,000
SAN FRANCISCO, Monterey Blvd.
Two-story and basement frame and
stucco residence (12 rooms and 3
baths; tile roof, tile finish, oil
burners).

Owner and Builder—G. W. Stanley, 467
Turk St.
Plans by D. E. Jaekle, Cal Bldg.

SCHOOLS

Completing Plans.
AUDITORIUM Cost, \$125,000
PASADENA, Los Angeles Co., Calif.
John Muir Technical High School.
Reinforced concrete high school audi-
torium with tile roof (seating ca-
pacity of 1200).
Owner—Pasadena Board of Education
Architect—Bennett & Haskett, First
Trust Bldg., Pasadena.

SAN FRANCISCO, Cal.—American
Studios, 1060 Folsom Street, at \$4,384
submitted lowest bid to city purchas-
ing agent, 270 City Hall, to furnish
and install stage fittings and drap-
eries in Roosevelt Junior High School.
The only other bid was submitted
by Armstrong Studios, at \$4,822.
Bids held under advisement.

August 28, 1930
Bids to Be Taken Sept. 15th.
BUILDINGS Cost, \$655,000
BERKELEY, Alameda Co., Cal. Uni-
versity of California Campus.
Group of class B buildings (College of
Engineering).
Owner—University of California.
Architect—George W. Kelham, 315
Montgomery St., San Francisco.
Engineer—H. J. Brunner, Sharon
Bldg., San Francisco.

Group consists of 4-story class B
main building (40,000 sq. ft.); 2-story
Hesse Hall (3,000 sq. ft.); and 1-2-
and 3-story laboratory (30,000 sq. ft.)

Bids Opened—Held Under Advisement.
SCHOOL Cost, \$70,000
HOLLISTER, San Benito Co., Cal.
Two-story brick and concrete school
(12 rooms).

Owner—Sacred Heart School (Rev.
Daniel Keenan, pastor), Hollister.
Architect—R. G. Montgomery, Cham-
ber of Commerce Bldg., Los An-
geles.

Bids were submitted by Barrett &
Hilp, James L. McLaughlin, and H.
C. Miller of Santa Clara.
Announcement will be made within
a few days.

Contract Awarded.
GYMNASIUM Cost, \$52,870
BERKELEY, Alameda Co., Cal. Ad-
dison and Curtis Sts.

Burbank Junior High School Gym-
nasium (structural steel, brick
and hollow tile construction).

Owner—Berkeley School District.
Architect—Hardman & Russ, Berkeley
Bank Bldg., Berkeley.
Contractor—Chas. D. Vezey & Son,
3220 Sacramento St., Oakland.

PITTSBURG, Contra Costa Co., Cal.
—Worley & Co., 39 Natoma Street,
San Francisco, at \$439.40 awarded
contract by Armand Stow, Clerk,
Pittsburg School District, to furnish
and install 260 steel lockers 12x12x18
in Junior High School.

Following is a complete list of the
bids received:

Worley & Co., San Francisco.....\$439
Lyons Metal Products Co., S. F.....\$530
C. J. Hillard, S. F.....\$555
Schick Products Co., S. F.....\$712
(2777) 1st report Aug. 16, 1930. 15

Plans Being Figured—Bids Close Sep-
tember 8, 2 P. M. (previously re-
ported Sept. 2).

SCHOOL Cost, \$20,000
WESTLEY Stanislaus Co., Cal.
One-story Class C brick or concrete
elementary school (4 classrooms;
Spanish type).

Owner—Grayson School District.
Architect—Davis-Pearce Co., Grant
and Weber Sts., Stockton.
Certified check 10% required with
bid. Plans obtainable from architects
on deposit of \$50, returnable.

Preparing Plans
SCHOOL & RECTORY Cost, \$—
LOS ANGELES, Cal. Seventy-first
St. and Van Ness Ave.
Two-story brick school and rectory
Owner—Roman Catholic Bishop of Los
Angeles and San Diego (Rev.
John O'Shea, Pastor).
Architect—E. G. Martin, Chester
Williams Bldg., Los Angeles.

Contract Awarded.
SCHOOL Cost, \$15,000
MERYVILLE, Alameda Co., Cal.
Sixty-first St. and Doyle Ave.
One-story brick elementary school (4
rooms).

Owner—Emeryville School District.
Plans by S. Arnold, High School, Em-
eryville.

Contractor—Gaubert Bros., 4735
Brookdale Ave., Oakland.

Contract Awarded.
ADDITION Cost, Price, \$11,656
VISALLA, Tulare Co., Cal.
Physics laboratory building addition
to present Science Building.
Owner—Visalia Union High School
District, E. E. Baker, Clerk.
Architect—Ernest J. Kump Co., 533
Rowell Bldg., Fresno.
Contractor—J. J. Bedel, Visalia.
Following is a complete list of bids
received:

J. J. Bedel, Visalia.....\$11,656
L. C. Clark, Visalia.....11,786
W. T. Harris, Fresno.....11,970
Irwin & Hopkins, Fresno.....12,179
T. T. Godsey, Visalia.....12,245
E. J. Hepler, Fresno.....12,314
R. E. Jolly, Fresno.....12,816
Roy Martin, Fresno.....12,850
Hodgson & Sons, Porterville.....12,750
Kasper Schliach, Visalia.....13,998

Plans Being Prepared.
SCHOOL \$20,000
Castroville, Monterey Co.
Reinforced Concrete Addition to
Grammar School.
Owner—Castroville Grammar School
District.
Architect—W. H. Welks, 111 Sutter
St., San Francisco; 1706 Franklin
St., Oakland; and Bank of Italy
Bldg., San Jose.

Contract Awarded.
SCHOOL Cost, \$228,579
SANTA ANA, Orange Co., Cal.
Frances Willard High School Site.
Reinforced concrete high school.
Owner—Santa Ana Board of Educa-
tion.
Architect—Allison & Allison, Calif-
ornia Reserve Bldg., Los Angeles
Contractor—C. W. Pettifer, 1427 Cali-
fornia St., Long Beach.

Plumbing—Ora King, Pasadena, \$14,-
955.

Plans Being Figured — Bids Close

Sept. 4, 1 P. M.
SCHOOL IMPS. Cost, \$—
CARMEL, Monterey Co., Cal.

Alterations and additions to manual
arts building and alter contours
of ground, building of walls and
steps adjacent to building and
altering tennis courts and con-
struction of new tennis court at
high school.

Owner—Sunset School District.
Architect—Swartz & Ryland, Spazier
Bldg., Monterey.

Certified check 10% required with
bid. Plans obtainable from the ar-
chitect on deposit of \$10, returnable.

Plans Being Prepared.
LABORATORIES Total Cost \$800,000
PASADENA, Los Angeles Co., Cal.
California School of Technology.
Two reinforced concrete and steel
laboratory buildings and rein-
forced concrete astrophysics lab-
oratory.

Owner—California School of Technol-
ogy, Pasadena.
Architect—Goodhue Associates, New
York City.

Plans Being Figured—Bids Close Sept.

8, 8 P. M.
HEATING PLANT Cost, \$—
ROSEVILLE, Placer Co., Cal.

Install low-pressure steam heating
plant for high school.

Owner—Roseville Union High School
District, E. C. Bedell, clerk.
Engineer—Albert A. Coddington, 222
Keary St., San Francisco.

Certified check 10% required with
bid. Plans on file in office of clerk at
high school and obtainable from the
engineer.

Plans Being Figured—Bids Close Sept. 4.
SCHOOL, Cost, \$9500
MUROC, Kern Co., Cal.
 One-story frame and stucco school (4 classrooms).
 Owner—Muroc School District, John C. Calvia, Clerk.
 Architect—Edwin J. Symmes, Haberfeld Bldg., Bakersfield.
 Wood frame, stucco exterior, shingle roof, O. P. flooring; Smith heater, plaster interior.

SAN FRANCISCO.—Until September 8, 3 P. M., under Proposal No. 621, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish stage fittings and draperies for Presidio Junior High School. Specifications obtainable from above.

SAN MARTIN, Santa Clara Co., Cal. —Until September 1, 8 P. M., bids will be received by Kurt Schulz, clerk, San Martin School District, to furnish and install one Williams Oil-O-Matic oil burner, Model J with 3/4-in. metering pin, oil pump, Mercoid Combination Pressurestat and Low Water Cutout, a 1500-gallon 12-gauge oil storage tank all complete and ready for operation. Further information obtainable from clerk.

BANKS, STORES & OFFICES

Being Done by Day's Work.
ALTERATIONS Cost, \$—
ANTIOCH, Contra Costa Co., Cal.
 No. 601 Second Street.
 Alterations and additions to present two-story reinforced concrete building.
 Owner—First National Bank, Antioch.
 Architect—Arthur Johnson, State Hotel, 18 Turk St., San Francisco.
 Engineer—W. W. Wethered, State Hotel, 18 Turk St., San Francisco.
 Manager of Construction—G. H. Field, Antioch.
 Work is being done by owner under supervision of Mr. Field.

Plans Completed.
STORE Cost, \$—
RICHMOND, Contra Costa Co., Cal.
 San Pablo and Sacramento Sts.
 One and two-story brick store.
 Owner—Joseph Fara, Richmond, Cal.
 Plans by James T. Narbett, 466 31st St., Richmond.
 Bids will be taken shortly.

Preparing Working Drawings.
STORE Cost, \$12,500
SAN JOSE, Santa Clara Co., Cal.
 Two-story brick and concrete store and offices.
 Owner—Wm. Geoffrey, 296 S 2d St., San Jose.
 Architect—Herman Krause, P. O. Box 783, San Jose.

Plans Being Prepared.
OFFICES Cost, \$150,000
INGLEWOOD, Los Angeles Co., Cal.
 Commercial and Manchester Ave.
 Two-story and basement Class A concrete or brick offices.
 Owner—Los Angeles Gas & Electric Corp., 810 S. Flower St., Los Angeles.
 Architect—Eng. Dept. of Owner.

Contract Awarded.
ALTERATIONS Cost, \$36,000
FRESNO, Fresno Co., Cal. No. 1801 Mariposa Street.
 Alterations and additions to building.
 Owner—Pacific Greyhound Lines, Inc., Fifth and Mission Sts., San Francisco.
 Architect—Eng. Dept. of Owner.
 Contractor—Vieland, Bros., McHenry Road, Modesto.

Work Indefinitely Postponed.
ALTERATIONS Cost, \$150,000
SAN FRANCISCO, Hunter-Dulin Bldg., 111 Sutter St.
 Remodel present building.
 Owner—Hunter-Dulin Bldg. (A. Garbison, manager), premises.
 Architect—E. T. Hetschmidt, 807 Subway Terminal Bldg., Los Angeles.

Plans Being Prepared.
ALTERATIONS Cost, \$—
SANTA CLARA, Santa Clara Co., Cal.
 Franklin Street.
 Alterations to present store.
 Owner—Helle Machefer, 252 S 16th St. San Jose.
 Architect—Wolfe and Higgins, Realty Bldg., San Jose.

Contract Awarded.
STORE Cost, \$6545
SOUTH SAN FRANCISCO, San Mateo Co., Cal.
 One-story brick store.
 Owner—Sam Price et al
 Architect—None.
 Contractor—A. J. Tole, 124 Rice St., San Francisco.

Sub-Contracts Awarded.
STORE Cost, \$70,000
OAKLAND, Alameda Co., Cal. NE Twentieth St. and Broadway.
 Two-story steel and frame reinforced concrete store (terra cotta front; (\$330-ft.).
 Owner—R. H. Cross, Mills Bldg., San Francisco.
 Architect—Alben Froberg, Ray Bldg., Oakland.

Contractor—H. J. Christensen, 1924 Broadway, Oakland.
Excavation—J. Catucci, 1212 18th Ave. Oakland.
Foundations—Regan, Inc., Crocker First National Bank Bldg., San Francisco.

Concrete for Foundations—Pacific Coast Aggregates, 85 2nd St., San Francisco.
Structural Steel—Judson Pacific Co., 609 Mission St., San Francisco.
Terra Cotta—N. Clark & Son, 116 Natoma St., San Francisco.
Reinforced Steel—McGrath Steel Co., 354 Hobart St., Oakland.
 Will have steam heating system, tar and gravel roof.

To Be Done By Day's Work By Owner
ALTERATIONS Cost, \$12,000
OAKLAND, Alameda Co., Cal. SW Seventh and Washington Sts.
 Alterations and additions to building.
 Owner & Builder—A. B. Moffitt, 1615 Broadway, Oakland.
 Architect—None.

Incinerator Contract Awarded.
LABORATORY Cost, \$65,000
SAN FRANCISCO N Fell Street, bet. Van Ness Ave. and Polk St.
 Three-story and basement reinforced concrete and brick offices and laboratory.

Owner—The Viavi Co., Van Ness Ave. and Market St., San Francisco.
 Architect—Willis Polk & Co., 277 Pine St., San Francisco.
 Contractor—Barrett & Hilt, 918 Harrison St., San Francisco.
Incinerator—Kerner Incinerator Co., 450 Clementina St., as prev. report.
Steel Wash—U. S. Metal Products Co., 330 Tenth St., San Francisco.
Mill Work—Brannan St. Planing Mill, San Francisco.

Cast Stone and Cast Plaster—John Bickel, 269 Fell St., San Francisco.
 Brick Work—Wm. Rainey, 323 Clementina St., San Francisco.
 Lumber awarded to J. H. McCallum Lumber Co., 748 Bryant St., S. F.; structural steel to Judson-Pacific Co., 609 Mission St., S. F.; reinforcing steel and steel pans to Soule Steel Co., Rialto Bldg., S. F.; excavation to Granfield, Farrar & Carlin, 67 Hoff St., San Francisco.

Contract Awarded.
LABORATORY Cost, \$—
BAY POINT, Contra Costa Co., Cal.
 Steel laboratory building and switch house.
 Owner—Shell Oil Co., Shell Oil Bldg., San Francisco.
 Plans by Eng. Dept. of Owner, N. W. Thompson, chief engineer.
 Contractor—Barrett & Hilt, 918 Harrison St., San Francisco.

Structural Steel Contract Awarded.
ADDITION Cost, \$10,000
SAN FRANCISCO, N Lombard St. W Octavia St.
 One-story and mazzanine floor addition to class C sales and show room building.
 Owner—A. Raven, 1730 Lombard St., San Francisco.
 Architect—W. H. Armitage, 72 New Montgomery St., San Francisco.
 Contractor—C. Chlapa & Co., 1109 Montgomery St., San Francisco.
Structural Steel—Golden Gate Iron Works, 1541 Howard St. Approx. 50 tons involved.

Preparing Sketches.
NEWSPAPER BLDG. Cost, \$—
LOS ANGELES, Cal. First, Second and Spring Sts.
 Limit height Class A newspaper building.
 Owner—Times-Mirror Company.
 Architect—Gordon B. Kaufman, Union Bank Bldg., Los Angeles.

Planned.
ALTERATIONS Cost, \$100,000
TUCSON, Arizona. East Broadway.
 Remodel present building.
 Owner—Inhalin Co. of Arizona, % Lynn D. Smith, 82 W. Pennington St., Tucson.
 Architect—None.
 Other buildings will be constructed on the site at a later date.

Contract Awarded.
BUILDING Cont. Price, \$24,450
EUREKA, Humboldt Co., Cal. Fifth St. bet. F and G Sts.
 Two-story brick building.
 Owner—W. F. Fuller & Co., 301 Mission St., San Francisco.
 Architect—Franklin T. Georgeson, 6th and G Sts., Eureka.
 Contractor—Fred J. Maurer & Son, Eureka.
 General contract does not include metal store front, plate glass or case work.

Plans Being Prepared.
REMODELING Cost, \$40,000
SAN FRANCISCO, Stockton St. and Maiden Lane.
 Remodel present 3-story building for confectionary.
 Owner—Dr. Felix Lengfeld.
 Plans by L. & E. Emanuel, 2665 Jones Street.
 Lessee—Foster & Orear.

THEATRES

SAN FRANCISCO.—Until September 8, 3 P. M., under Proposal No. 621, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish stage fittings and draperies for Presidio Junior High School. Specifications obtainable from above.

Preliminary Plans Being Prepared.
THEATRE Cost \$500,000
EUREKA, Humboldt Co., Cal. NW 6th and G Sts. (6x12 ft.)
 Class A theatre (seating capacity 2,000).
 Owner—George Mann, Redwood Theatres, Inc.
 Architect—Norman R. Coulter, 46 Kearny St., San Francisco.
 Details on proposed project will be given at a later date.

Contract Awarded.

THEATRE Cost, \$30,000
STOCKTON, San Joaquin Co., Cal. E
Market St. bet. El Dorado and
Center Sts.
One-story class C brick theatre (to
seat 650).
Owner—Angelo Palmero.
Architect—Alph Morrell, Union Bldg.,
Stockton.

Contractor—Wieland Bros., McHenry
Road, Modesto.
Lessee—H. S. Tamura, 25 W Main St.,
Stockton (Sunset Hotel).
Contract awarded on percentage
basis. Construction will be started
Sept. 15.

Contract Awarded.

THEATRE Cost, \$300,000
HUNTINGTON PARK, Los Angeles
Co., Cal.
Class A reinforced concrete theatre
and stores (to seat 2,000).
Owner—Welburn Mayock, 150 S Spring
St., Los Angeles.
Architect—Paul R. Williams, 3839 Wil-
shire Blvd., Los Angeles.
Contractor—O'Neal & Son, 3839 Wil-
shire Blvd., Los Angeles.

WHARVES AND DOCKS

OAKLAND, Cal.—Until Sept. 2,
4:30 P. M., bids will be received by G.
D. Hegardt, Secretary City Port Com-
mission, Oakland Bank Bldg., to in-
stall automatic sprinkler system in
Market St. pier shed, near the foot of
Market St. Certified check 10% re-
quired with bid. Specifications obtain-
able from secretary on deposit of
\$5.00, returnable.

MISCELLANEOUS
CONSTRUCTION

Contract Awarded.
ART GALLERY Cost, \$60,000
STOCKTON, San Joaquin Co., Cal.
Victory Park.
Haggin Memorial Museum and Art
Gallery (steel and brick filler
walls; concrete floors; metal
joists, steam heating system).
Owner—San Joaquin Pioneer & His-
torical Society (Donation of Mrs.
Ella McKee).
Architect—W. J. Wright, Mall Bldg.,
Stockton.
Contractor—Wm. J. Scott, 1661 W
Poplar St., Stockton.

Following is a complete list of the
bids received:
Edward Riley, Stockton\$58,997
C. H. Dodd, Stockton\$59,300
Wm. J. Scott, Stockton\$59,770
John Hackman, Stockton\$64,850
Lindgren & Swinerton, Inc.,
San Francisco\$67,000
J. Metzger & Son, Los Angeles\$67,700
H. C. Vickroy, Stockton\$68,475

OAKLAND, Cal.—Informal bids are
being received by the East Bay Mun-
icipal Utilities District, under Propo-
sal 841, to furnish materials for
fence, post and gates at district's
storage yards in Jones Ave. Fur-
ther information obtainable from sec-
retary of the district.

Bids Opened—Held Under Advisement
SWIMMING POOL Cost approx. \$4000
FAIRFAX, Marin Co., Cal.
Reinforced concrete swimming pool.
Owner—Meadow Club of Tamalpais.
Engineer—Maurice Couchot, 525 Mar-
ket St., San Francisco.

ANTIOCH, Contra Costa Co., Cal.—
City council rejects bids to construct
fence at Municipal Reservoir. New
bids will be received on September 8
from revised specifications prepared
by City Engineer E. L. O'Hara.

Being Done By Day's Work.

GOLF COURSE Cost, \$10,000
SAN LEANDRO, Alameda Co., Calif.
Juanita and E 14th St.
Miniature golf course.
Owner—Name Withheld.
Architect—C. C. Dakin, 2917 Benvenue
Ave., Berkeley.

To Be Done By Day's Work By Owner
ALTERATIONS Cost, \$25,000
SAN LEANDRO, Alameda Co., Calif.
407 Estudillo St.
Alterations and additions to mortuary
building.
Owner—H. W. Leramur, 407 Estudillo
Street.
Architect—Chester Treichel, American
Bank Bldg., Oakland.

August 27, 1930

Preparing Plans.
GOLF COURSES Cost, \$—
OAKLAND, Alameda Co., Cal.
Location withheld.
Several Pee Wee Golf Courses.
Owner—Rep. by L. F. Hyde.
Architect—L. F. Hyde, 372 Hanover
St., Oakland.
Mr. Hyde is receiving prices on ma-
terials.

Plans Being Prepared.
GOLF COURSE \$12,000
SAN FRANCISCO, Cal., Post St. St.
near Fillmore.
Indoor Miniature Golf Course.
Owner—Lester Loupe, 155 Montgo-
mery St.
Architect—S. Heiman, 605 Market St.,
San Francisco.
Work will be done by day's labor.
Mr. Heiman will prepare plans for
about five more miniature golf courses
at a later date.

SAN FRANCISCO.—Until Sept. 17,
2:30 P. M., bids will be received by S.
J. Hester, secretary, Board of Public
Works to furnish and install street
signs in various sections of the city.
Specifications obtainable from Bureau
of Engineering, 3rd floor, City Hall.

Contract Awarded.
ALTERATIONS Cost, \$7000
SAN FRANCISCO, Ashbury Street S
Waller St.
Alterations to yard (concrete walls,
wire fencing, etc.)
Owner—Rev. J. Butler, 1100 Franklin
Street.
Architect—H. A. Minton, Underwood
Building.
Contractor—Fay Imp. Co., 760 Phelan
Bldg.

OAKLAND, Cal.—Until September
4, 5:30 P. M., bids will be received by
John H. Kimball, Secretary, East Bay
Municipal Utility District, 512 16th
St., to furnish approximately 1350 lin.
ft. of 6-ft. chain link fence with
posts and gates, as provided under
Proposal No. 241. Specifications ob-
tainable from Room 12, 512 16th St.,
Oakland.

MISCELLANEOUS SUPPLIES
AND MATERIALS

SAN FRANCISCO—Bids will be
asked shortly by the Board of Public
Works to furnish and erect street
signs in various sections of the city.

MODESTO, Stanislaus Co., Cal.—
Until Aug. 27th, 7:30 p. m., bids will
be received by H. E. Gragg, city clerk,
717 10th Street, Modesto, for one Herr-
ing Hall Marvin Vault door, No. 7830,
or equal, bearing 6-hour label of Un-
derwriters Laboratories. All bids shall
be accompanied by certified check
not less than 10% of total bid, made
payable to Mayor of city.

ANTIOCH, Contra Costa Co., Cal.—
Until Sept. 8th, 8 p. m., bids will be
received by J. E. McElheney, city
clerk, for furnishing of all materials
and labor for building protection fence
8,763 feet in length around Antioch
Municipal reservoir. Plans obtainable
from office of City Clerk or City En-
gineer, Antioch. Certified check, equal
to 10% of amount of bid must ac-
company bid.

BUSINESS OPPORTUNITIES

Superior Skylight Co., 95 Webster
Ave., Long Island City, N. Y., at-
tention Mr. Barney Goldman), manu-
facturing patent ventilators for the-
atres, auditoriums, high schools, de-
sires reputable local representative for
Northern California territory.
Scharlin and Scharlin, 60 E 42nd St.
New York, N. Y., are willing to act
as brokers for manufacturer desirous
of distributing products in the East.
W. F. Wygant, 1016 Court Street,
Medford, Ore., is anxious to represent
local manufacturer. He operates a
truck service through Grants Pass,
Ashland, Medford and Klamath Falls.
Bennett-Watts-Haywood Co., 360 N
Michigan Ave., Chicago, Ill., repre-
sents two firms desiring men to act
as manufacturers agent for them.
They must be qualified to handle all
kinds of electrical appliances.
M. Leo Gitelson, 424 Broadway, New
York, N. Y., wishes to represent a
San Francisco firm in New York City.
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STATE CORPORATION RULES
ARE DRAFTED

Final draft of the rules of practice
before the State Corporation Com-
mission, governing operations of Cali-
fornia concerns, has been completed
and copies are ready for distribution,
it is announced by F. G. Athearn,
corporation commissioner.

The rules contain new provisions
affecting "bucket shop" operations,
oil royalty companies, partial pay
houses, investment trusts, finance
companies and many others.

The first draft of rules of practice
was issued last June. Since that
time experience in their application
showed the need for more flexibility
and to relieve companies from the
onset of excessive regulation, Athearn
said.

California continued to maintain
her stride in building construction
for the month of July. With sixty-
six cities reporting, California rolled
up a building total of \$16,139,170
in July, being exceeded only by the
state of New York with forty-six
cities reporting a total of \$64,162,860.
Illinois ranked third with fifty-one
cities reporting an expenditure of
\$11,585,589. The twelve leading states
in building activities for July follow:

No. of Cities		
	Reporting	Est. Cost
New York	46	\$64,162,860
California	66	16,139,170
Illinois	51	11,585,589
Massachusetts	31	9,144,280
Ohio	28	8,103,791
Wisconsin	27	7,083,402
New Jersey	27	6,977,002
Pennsylvania	30	6,800,761
Michigan	23	6,582,192
Texas	23	5,357,608
Missouri	5	4,012,590
Connecticut	20	3,334,433

Western Wheeled Scraper Co., Au-
rora, Ill., has issued a new pictorial
catalog, No. 80, containing 144 pages
of illustrated data on this company's
line of earth moving equipment.

Engineering News Section

BRIDGES

(a) Construction of causeway on a rolled earth fill approximately 30 ft. high and 230 ft. long, containing 4800 cu. yds. of embankment of assorted materials from three different sources
1. 5000 cu. yds. of selected earth borrow to be placed in the rolled fill portion of the causeway.

2. 1100 cu. yds. of solid rock from the Swayne Logging Railway and the highway cut at the east end of the proposed fill, material to be placed on slope of fill.

3. 2300 cu. yds. of rock and granular material from the widening of Lakeside Way, materials to be placed on the slopes of fill and in highway approaches to fill.

(b) Cleaning and grubbing timber and brush on site and approaches and moving present highway bridge.

(c) Stripping site to fill to bedrock to required width.

(d) Construction of cut-off trench to width required.

(e) Construction of 18 inches inside diameter reinforced concrete drainage conduit with timber control gate stand and placing control gate from outlet from old dam.

(f) Constructing three tube reinforced concrete syphon drainage culverts.

(g) Constructing highway approach at each end of fill.

(h) Reconstructing Swayne Logging Railroad (narrow gauge). Taking up and relaying 1400 ft. of main line track and 90 ft. of siding track. Moving and resetting water tank and camp buildings, tent floors and grading new camp sites.

(i) Regrading road connecting with Lakeside Way.

(j) Furnishing all material and labor, hauling, mixing, placing, laying out, assembling of materials, and all construction work either temporary or permanent in connection with the work and delivering the entire work complete and ready for use.

(k) Constructing and maintaining a suitable detour of the present county road during construction of causeway. Work under County Imp. Act of 1921.

MARIN COUNTY, Cal.—U. S. War Department has approved plans of State Highway Commission for a bridge across the upper part of Richardson's Bay, a unit of the state highway system. The cost of the bridge, including the one-mile approach from the new Alto cut-off on the north and the reconstruction of the present highway south from Manzanita to the Sausalito city limits is estimated at \$900,000.

HUMBOLDT COUNTY, Cal.—Fred J. Maurer & Sons, Eureka, at \$50,320 awarded contract by State Highway Commission to construct overhead crossing over tracks of the Northwestern Pacific Railway about 2½ miles north of Beatrice, consisting of two 61-ft. 7-in. through girder spans, one 40 ft. steel beam span and approximately 450 ft. of timber trestle approach.

OROVILLE, Butte Co., Calif.—Lord & Bishop, Oroville, at \$29,873 awarded contract by county supervisors for improvements in Road District No. 1, involving:

OAKLAND, Cal.—County Surveyor Geo. A. Posey completes plans for two types of bridges to replace the Park Street Bridge. One plan provides for a bascule which gives unlimited clearance for ships and the other a lift bridge, designed to give a clearance of 185 ft. A selection will be made by county supervisors shortly.

PALO ALTO, Santa Clara Co., Cal.—Until September 2, 4 P. M., bids will be received by J. F. Byxbee, city engineer, to construct a reinforced concrete culvert opposite the Mayfield Depot on Alma St., between California and Oregon Aves. Certified check 10% payable to city required with bid. Plans obtainable from engineer.

SACRAMENTO, Cal.—Following bids taken under advisement by county supervisors to construct timber bridge (flag bridge) over Laguna Creek:

(a) of redwood piles and steel construction; (b) treated Douglas fir piles and steel construction; (c) untreated Douglas fir piles and steel construction:

M. A. Jenkins, 3560 Y St., Sacramento, (a) \$59,477; (b) \$59,695; (c) \$45,269.

C. J. Nystedt, Capital National Bank Bldg., Sacramento, (a) \$60,062; (b) \$60,217; (c) \$44,966.

Ralph Hunter, Sacramento, (a) \$63,625; (b) \$62,146; (c) \$46,985.

Lord and Bishop, Oroville, (a) \$64,419; (b) \$66,804; (c) \$49,752.

Ben Gerwick, San Francisco, (a) \$64,222; (b) \$65,719.

E. Force, (a) \$68,267; (b) \$67,473; (c) \$53,151.

Healey-Tibbitts Construction Co., (a) \$74,743; (b) \$73,778; (c) \$58,572.

Lindgren Swinerton Co., Inc., San Francisco, (a) \$73,553; (b) \$73,170; (c) \$54,840.

September 6, 10 A. M., bids will be received by Gladys Stewart, county clerk, to construct three reinforced concrete bridges over three branches of "Outside Creek," known as Bridges No. 91A, 91B and 91C, involving:

477.84 cu. yds. class A conc. incl. excavation;

38.12 cu. yds. class F concr.;

54.96 cu. yds. class A concr. in pavement;

Lump sum bid on wooden guard rail, incl. material;

1000 cu. yds. earth fill.

All material to be used will be furnished by the county f. o. b. Farmersville Siding on the S. P. Ry., except as otherwise shown in the specifications. Plans may be obtained from the surveyor, T. W. Switzer, on deposit of \$10. Certified check, 5%.

CHICO, Butte Co., Cal.—T. H. Pelk, Chico, at \$4,403.25 awarded contract by city council to widen Main Street bridge. Reconstruction will provide a bridge 19 ft. wider than the present structure, giving a total width of 44 ft. Six feet of sidewalk will be provided on the west side of the bridge.

REDWOOD CITY, San Mateo Co., Cal.—Until September 2, 3 P. M., bids will be received by B. E. Myers, city clerk, to construct nine reinforced

concrete culverts on the Woodside Road at the following streets: One at Linden St.; one at Madrone St.; one at Locust St.; one at Cypress St.; one at Murray Court; one at Central Ave.; one at Bonita Ave.; one at Nueva Ave.; one at Orchard Ave. Estimated cost \$1000 each. Certified check 10% payable to city required with bid. Plans obtainable from C. L. Dimmitt, city engineer.

VISALIA, Tulare Co., Calif.—Until Sept. 6, 10 A. M., bids will be received by Gladys Stewart, county clerk, to construct reinforced concrete bridge over Deep Creek, known as bridge No. 89, involving:

(1) 1.01 cu. yds. class F concrete;

(2) 183.55 cu. yds. class A concrete, including excavation;

(3) 250 cu. yds. fill.

All material to be furnished by the county f. o. b. Farmersville Siding on the S. P. Ry., except as otherwise specified in the specifications. Plans may be obtained from the surveyor, T. W. Switzer, on deposit of \$10. Certified check 5%.

MERCED, Merced Co., Cal.—Until Sept. 11, 11 A. M., bids will be received by P. J. Thornton, Clerk of the Board of Supervisors, Merced, for the construction of three bridges as follows: Bridge No. 297 over Edendale Creek on Cox Ferry Road, Bridge No. 208, over Canal Creek on Cox Ferry Road, and bridge No. 209 over Canal on North line of Sec. No. 22, T. 11 S., R. 12 E. Plans and specifications obtainable at office of County Clerk or County Surveyor, W. E. Bederson, upon deposit of \$10. Certified check 10% made payable to chairman of the Board of Supervisors must accompany each bid.

DREDGING, HARBOR WORKS & EXCAVATIONS

SANTA BARBARA, Cal.—Merritt, Chapman & Scott Corp., 720 Wilmington Ave., San Pedro, at \$118,750 submitted only bid to city council to construct East Cabrillo Blvd. wall or revetment, involving:

(1) fur. and place 13,500 tons rip-rap on outside of bulkhead, \$4.60 ton;

(2) fur. and place 1500 tons rip-rap on inside of bulkhead, \$4.90 ton;

(3) fur. and place 4000 tons asphalt between rip-rap, \$3.25 ton;

(4) fur. and place 50 lin. ft. creosoted sheet piling or 21,500 sq. ft. at \$1.50 sq. ft.

Taken under advisement.

STOCKTON, San Joaquin Co., Cal.—Until Sept. 2, 3 P. M., under Circular Proposal No. 31-59, Specification 2347, bids will be received by P. S. Engineer Office for clearing brush and trees from the area of Item 306 on Routh and Ready Island along the west bank of the San Joaquin River, between the mouth of Stockton Channel and Burns Cut-off, a distance of about 3¼ miles below the city of Stockton. Specifications obtainable from above.

STOCKTON, San Joaquin Co., Cal.—Until Sept. 2, 3 P. M., under Circular Proposal No. 31-58, Specification No. 2344, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, for clearing brush

and trees from the area of Item 303 along the east bank of the San Joaquin river, between the mouth of Stockton Channel and Smith Canal, a distance of about 2 miles below the city of Stockton. Specifications obtainable from above.

RICHMOND, Contra Costa Co., Cal.—Daniel Contracting Co., 503 Market St., San Francisco, awarded contract by Berkeley Waterfront Co. for dredging and filling property on the Richmond Inner Harbor and extending along the water front to Albany and Berkeley. Channel is to be dredged and several hundred acres of potential lands reclaimed. Channel will be about 400 ft wide and 7800 ft. long. The cost is estimated at \$2,000,000.

NICOLAUS, Sutter Co., Cal.—Until Sept. 23, 3 P. M., under Circular Proposal No. 31-57, specification 2260, bids will be received by the U. S. Engineer Office, California Fruit Bldg., to construct approximately 8700 ft. of levee on the left bank of the Feather River near the "Lake of the Woods," about one mile above the mouth of the Bear River in Yuba County and approximately three miles up stream from the town of Nicolaus. Specifications obtainable from above.

STREET LIGHTING SYSTEMS

REDWOOD CITY, San Mateo Co., Cal.—Due to protests of property owners the city council has abandoned proceedings providing for the installation of an ornamental electrolux system in Broadway and Hopkins Ave., west of El Camino Real.

PORTERVILLE, Tulare Co., Cal.—As previously reported, R. A. Wattson, 1026 McCadden St., Los Angeles, at \$21,256 awarded contract by city council (134) to install ornamental electrolux system in Main St., bet. Olive and Morton Sts., involving 56 two-light standards together with underground system. Union Metal Mfg. Co.'s standards, Design No. 2881. Complete list of bids follows:

R. A. Wattson, Los Angeles.....	\$21,256
Walker & Martin, Los Angeles.....	21,267
A. R. Parsons & Co., Porterville.....	21,600
H. C. Reid & Co., San Francisco.....	21,848
Robinson Elec. Co., Fresno.....	21,850
Butte Elec. Co., San Francisco.....	22,600
City Improvement Co., Berkeley.....	22,700

MACHINERY AND EQUIPMENT

EUREKA, Humboldt Co., Cal.—Until Sept. 7, 8 P. M., bids will be received by A. Walter Kildale, City

Clerk, to furnish and deliver one six-cylinder automobile, roadster or coupe, to be painted white, in conformity with the state traffic regulations. Allowance to be made for Chrysler roadster now owned by the county.

EUREKA, Humboldt Co., Cal.—Troy Laundry Machinery Co., 1201 Folsom St., San Francisco, at \$7130 awarded contract by county supervisors to furnish and install equipment in new county hospital, recently completed.

SUNNYVALE, Santa Clara Co., Cal.—Until September 6, 7:30 P. M., bids will be received by Fred T. Butler, clerk, Sunnyvale School District, to furnish and deliver a school bus under the following specifications:

Truck Chassis: Same to be standard factory chassis having a wheel base of 168 inches, 4 cylinder motor, 4 speed transmission, bevel gear drive differential, semi-disc steel wheels, dual rear wheels and tires, bumper on front. Brakes to be of 4 wheel internal expanding type with parking brake to be a separate system in the rear drums and also of internal expanding design. Tires to be truck and bus type balloons size 23x6.00. Gas tank in cowl and to be part of dash. Motor to be equipped with governor.

Bus Body: Same to be of Patchetts and Carstensen design and manufacture, to be equipped with non-stutter Triplex safety glass in the windshield and the large rear window is to be the wire-inserted safety glass. Side windows steel frames fitted with one large light of No. 30 celluloid, windows to be held in any position between lowered and fully raised position by an eccentric catch. The upholstery is to be of genuine leather and all cushions to be equipped with coil springs and padded with curled hair. The interior finish to be natural wood finish with spar varnish. The exterior of body to be sheathed completely in 22 gauge silver finish auto body steel and to be lacquer enameled in any color desired and with any lettering desired in contrasting color.

And furnished with the following equipment: Extra tire and tube mounted on extra wheel on carrier. Ventilating windshield, sun visor, windshield wiper, rear vision mirror, dash light, gasoline gauge, dome lights with dash control, electric turning signal as required by California Vehicle Department, and with electric stop and tail light.

Seating Arrangement: Longitudinal seat down each side, seat across the back and an upholstered bench seat down the center, with an individual bucket seat for the driver.

RESERVOIRS AND DAMS

LONG BEACH, Calif.—C. H. Shaw, superintendent of the Water Department, and Burt Harmon, municipal

hydraulic engineer, have started plans for a 54,000,000-gal. reservoir to be built on Reservoir Hill. The top of the hill will be leveled, its altitude being reduced about 12 ft., to provide a 15-acre site. The structure will be built in units, the first to cost between \$350,000 and \$400,000. Plans will be ready for approval by the city manager and city council in September.

SEWERS AND SEWAGE DISPOSAL PLANTS

PT. REYES, Cal.—See "Government Work and Supplies," this issue. Bids wanted for improvements at U. S. Naval Radio Compass Station at Point Reyes.

SANTA CRUZ, Santa Cruz Co., Cal.—Until September 8, 2:45 P. M., bids will be received by S. A. Evans, city clerk, (460-C) to construct vitrified clay pipe main sanitary sewer with wye branches and brick manholes in Plateau Ave. bet. Woodrow Ave. and Columbia St. 1911 Act. Certified check 10% payable to city required with bid. Specifications obtainable from Roy Fowler, city engineer.

BERKELEY, Alameda Co., Calif.—Until September 2, 10 A. M., bids will be received by Florence E. Turner, city clerk, to construct sewer in Hilldale Ave., and in right of way from Hilldale Ave. to Euclid Ave., about 500 ft. south of Marin Ave. Certified check 10% payable to city required with bid. Plans obtainable from city engineer on deposit of \$10, returnable.

SAN FRANCISCO.—As previously reported, bids will be received by S. J. Hester, secretary, Board of Public Works, to construct Section K of the College Hill Tunnel Sewer, extending from the Mission Viaduct to Valencia and Army Sts.; estimated cost, \$320,000. Project involves:

- (1) 4,319 lin. ft. 4x6-ft. 6-in. reinforced concrete tunnel;
- (2) 1,508 lin. ft. 4x6-ft. reinf. concrete sewer;
- (3) 318 lin. ft. 3-ft. 6-in. x 5-ft. 3-in. reinforced concrete sewer;
- (4) 315 lin. ft. 6-foot circular reinf. concrete sewer;
- (5) 75 lin. ft. 15-in. V.C.P. sewer;
- (6) Reinforced concrete junction struc. at 29th and San Jose Ave.;
- (7) Do at San Jose and Army St.;
- (8) Do at Valencia and Army Sts.;
- (9) 7 brick or concrete manholes, complete on concrete sewers;
- (10) 3,800 lin. ft. 6-in. V.C.P. under-drain covered with concrete or imbedded in broken rock;
- (11) 1,900 lin. ft. 8-in. do.;
- (12) 500 lin. ft. 10-in. do.;
- (13) 300 lin. ft. 12-in. do.

Time for completion, 450 days. Deposit of \$10 required for plans, obtainable from Bureau of Engineering, 3rd floor, City Hall. Deposit is returnable.

ORANGE, Cal.—Until 1 P. M., Sept. 8, bids will be received by city council for constructing a storm drain in Lemon St., from Walnut Ave. to Santiago Creek, approximately 6000 ft., and the construction of two 1000-ft. laterals. Cost, \$75,000. C. C. Bonebrake, city engineer.

WATER WORKS

ORANGE, Orange Co., Cal.—Until 1 P. M., Sept. 10, bids will be received by the city council for construction of the \$75,000 storm drain project. Storm drain will be in three parts, a 6600-foot mainline down Lemon St. from Walnut St. to Santiago creek and two laterals 100 feet long on Palm and Chapman Aves. from Lemon to Orange St. Specifications provide

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for the installation of a conduit of concrete 24 inches in diameter at Walnut St., gradually increasing in size at each intersection until the maximum size of 54 inches is reached. Culverts are to be placed under the street intersections on Glassell St., which will do away with the dips at Walnut, Sycamore, Palm, Maple, Palmway and La Veta Aves. C. C. Honebrake, city engineer.

TORRANCE, Los Angeles Co., Cal.—Hearing on proposal to hold election in Municipal Improvement District No. 1 to vote on \$400,000 bond issue, for water supply and distribution system, will be held at 8 P. M., Sept. 2. Estimated cost, \$331,000. Proposed improvement work is acquisition and construction of a water producing and distributing system, including wells, pump, tanks, reservoirs, distribution mains, and land, rights-of-way, and easements therefor, and all other necessary equipment and appurtenances for a complete water producing, purifying and distributing system, for the sale of water for domestic, agricultural, industrial and other uses.

FRESNO, Fresno Co., Cal.—Edgley Co., 800 E. 61st St., Los Angeles, awarded contract by county supervisors at \$42,758 for construction of water distributing system in Fresno County Water Works District No. 1. Work involves the following approximate quantities: 6880 lin. ft. 4-in. cast iron pipe; 25,580 lin. ft. 6-in. cast iron pipe; 6750 lin. ft. 8-in. cast iron pipe; 10,100 lbs. cast iron fittings; 10 gate valves, 4-in.; 32 gate valves, 6-in. 7 gate valves, 8-in.; also irrigating hydrants, service connections, etc. Cost, \$55,000.

Work is to be done under bond issue of \$67,000.

Plans and specifications prepared by Consulting Engineer, A. Segel, Griffith-McKenzie Bldg., Fresno.

PT. REYES, Cal.—See "Government Bids wanted for improvements at U. S. Naval Radio Compass Station at Point Reyes.

FRESNO, Fresno Co., Cal.—Edgley Co., 800 E. 61st St., Los Angeles, at \$42,758 awarded contract by county supervisors to construct water distributing system in Fresno County Water Works District No. 1. Project involves: 7000 ft. 4-in., 25,000 ft. 6-in. and 7000 ft. 8-in. pipe line. Perry P. Brown, engineer, 512 Griffith-McKenzie Bldg., Fresno.

STREETS AND HIGHWAYS

BUTTE COUNTY, Cal.—Following bids received Aug. 27 by C. H. Whitmore, District Engineer, State Highway Commission, Sacramento, to construct a reinforced concrete bridge over the State Highway 1 mile east of Oroville, consisting of one earth filled arch span, 46 ft. long: G. D. Griffith & H. Gunther,

Sacramento	\$6,577
E. C. Neilson, Orland	\$6,679
Otto A. Peters, Oroville	\$6,840
Paul White, Santa Monica	\$6,898
R. B. McKenzie, Red Bluff	\$7,525

Bids held under advisement.

SAN LUIS OBISPO COUNTY, Cal.—Until Sept. 5, 2 P. M., bids will be received by L. H. Gibson, District Engineer, State Highway Commission, Bank of Italy Bldg., San Luis Obispo, for 1.8 miles of bituminous macadam boarders from Yerba Buena Creek south. Specifications obtainable from district engineer.

SACRAMENTO COUNTY, Cal.—Perlera & Reed, Tracy, at \$7225 awarded contract by State Highway Commission to surface with crushed stone or gravel, 4.6 miles between Twin Cities and $\frac{1}{2}$ miles n. e. to Herald.

GILROY, Santa Clara Co., Cal.—Until September 1, 8 P. M., bids will be received by E. F. Rogers, city clerk, to improve portions of Hanna, Rosanna and other streets, involving: 500,882 sq. ft. 5-in. asphalt pavement; 41,515 sq. ft. 2-ft. gutter; 3736 lin. ft. curb; 4500 sq. ft. sidewalk; 3052 lin. ft. 6-in. conc. storm sewer; 9 catch-basins; 10,318 cu. yds. excavation 1911 Act. Bond Act 1915. Certified check 10% payable to city required with bid. Plans on file in office of clerk Raymond W. Fisker, city engineer, 74 S. First St., San Jose. Specifications on file in office of clerk.

SANTA BARBARA COUNTY, Cal.—Santa Maria Construction Co., Santa Maria, at \$1744 awarded contract by State Highway Commission to oil 4 miles of shoulders on the coast highway between El Capitan Creek and 1 mile south of Tajiguas Creek.

SANTA ROSA, Sonoma Co., Cal.—Clark and Henry Construction Co., Chancery Bldg., San Francisco, awarded contract by city council (1627) to improve Cleveland Avenue between Carrillo St. and Ridgeway Ave., involving grading; 4-inch macadam base with 3-inch asphaltic concrete surface paving, laid in one-course; hydraulic cement concrete curbs and gutters.

TULARE COUNTY, Cal.—A. J. and J. L. Fairbanks, Linden Ave., South San Francisco, at \$87,452.44 submitted low bid to U. S. Bureau of Public Roads, San Francisco, to grade portions of Section 1-B, Generals Highway, Hospital Road to Giant Forest, in Sequia National Park, 4.514 miles in length. W. A. Bechtel Co., 206 Sansome St., San Francisco, only other bidder at \$92,061.05. Engineer's estimate, \$79,202.83. Following is a listing of the unit prices on the project, together with the estimate of the engineer:

	Engineer's A. J. & J. L. Bech. Estimate		
	Fairbanks	tel Co.	
8.76 Acre Clearing	\$300.00	\$300.00	\$500.00
43,400 Cu. Yd. Unclassified Excavation	0.90	0.96	1.05
500 Cu. Yd. Unclassified Excav. for Struc.	2.00	2.00	3.00
5,500 Cu. Yd. Unclassified Excav. for Borrow	0.90	0.96	0.80
30,861 Sta. Yd. Overhaul	0.03	0.04	.05
5,400 Cu. Yd. Crush and place sub-reinf. material	2.75	3.30	3.25
300 Cu. Yd. Supple. Subgrade reinf. material	2.50	3.30	3.25
14,000 Cy. Yd. Ml. Haul subgrade reinf. material	.35	0.45	0.50
82 Cu. Yd. Cement rubble masonry	18.00	20.00	20.00
560 Lin. Ft. 18-in. corr. metal pipe in place	2.00	2.00	3.25
276 Lin. Ft. 24-in. corr. metal pipe in place	3.00	3.00	3.75
330 Lin. Ft. 30-in. corr. metal pipe in place	4.00	3.80	4.50
82 Lin. Ft. 36-in. corr. metal pipe in place	5.00	5.00	6.50
320 Cu. Yd. Hand laid rock embankment	4.00	5.00	6.00
84 Lin. Ft. Haul and place Govt. fur. C.M.P.	1.25	1.00	2.50
6,000 Cu. Yd. Ml. Hauling borrow	.35	0.45	0.30
1,500 Lin. Ft. Stone guard rail	1.00	0.60	1.00

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OAKLAND, Cal.—Until Sept. 2, 4:30 P. M., bids will be received by G. D. Hegardt, Secretary City Port Commission, Oakland Bank Bldg., to grade and pave with oil macadam roadway at the foot of 14th St. Certified check of 10% required with bid. Specifications obtainable from secretary on deposit of \$5.00, returnable.

SAN JOSE, Santa Clara Co., Cal.—A. J. Raish, 46 Kearny St., San Francisco, awarded contract by city council to improve Sunol St., bet. San Carlos and Auzeais Aves., involving grading; 1½-inch asph. conc. surface on 2½-inch asph. conc. base pavement; cem. conc. curbs, gutters, walks; storm water inlets; 12-in. cement conc. storm sewer; cem. conc. culverts, etc.

PACIFIC GROVE, Monterey Co., Cal.—City council declares intention (3239) to improve Willow St., bet. Lighthouse and Junipero Aves., involving cem. conc. curbs and gutters; 2-in. asph. conc. pavement on existing base; 2 cons. catchbasins; 4-in. vit. clay lateral sewers. 1911 Act. Bond Ace 1915. Hearing September 18. L. C. Fisher, deputy city clerk

OAKLAND, Cal.—Until September 4, 12 noon, bids will be received by Frank C. Merritt, city clerk, to improve portions of 88th Ave., involving grading; curbs; gutters; pave and sidewalks; culverts; storm water drainage system; sewers with manholes and wye branches. 1911 Act. Certified check 10% payable to city required with bid. Plans on file in office of clerk. Walter N. Frickstad, city engineer.

CARSON CITY, Nev.—Until 2 p. m., Sept. 3, bids will be received by the Nevada highway department, Heroes Memorial Building, Carson City, for highway in Clark County, from California-Nevada state line to Jean, Rte. 6, Sec. A, a length of 12.62 miles. Plans may be obtained from S. C. Durkee, state highway engineer, upon deposit of \$15, of which \$10 will be returned. Certified check, 5%. The following are the kinds and approximate amounts of work: 60,500 cu. yds. excav. unclass; 17,689 yd. sta. overhaul; 12.62 mi. prepare subgrade and shoulders; 40,800 cu. yds. crush. rock or crush. gravel in place; 600 cu. yds. crush. rock or crush. gravel in stockpile; 165 cu. yds. class B concrete; 706 lin. ft. inalling 18-in.; 1052 lin. ft. 24-in.; 92-lin. ft. 30-in.; and 60 lin. ft. 36-in. corr. met. pipe; 24 monuments in place; 2 furnishing and installing posts for federal aid markers; lump sum, removing and reconstructing buildings. The state of Nevada, department of highways, will furnish corrugated metal pipe culverts, f. o. b. cars, Jean, Clark county, Nev.

OAKLAND, Cal.—Until September 4, 12 noon, bids will be received by Frank C. Merritt, city clerk, to improve portions of Plymouth St., 99th Ave. and Cherry St., involving grading; curbs; gutters; pave and walks; sewer with lampholes and wye branches; corr. iron and concrete culverts. 1911 Act. Certified check 10% payable to city required with bid. Plans on file in office of clerk. Walter N. Frickstad, city engineer.

EL DORADO COUNTY, Cal.—F. C. Adams, Angels Camp, at \$5995 awarded contract by State Highway Commission for bituminous surface treatment on 6.2 miles between Fresh Pond and ¾ mile east of Riverton.

AMADOR COUNTY.—Until 2 p. m., Sept. 17, bids will be received by C. H. Purcell, State Highway Engineer, Sacramento, for highway construction in Amador County, between Amador City and Martell (X-Am-65-B), about 4.3 miles in length, to be graded and surfaced with untreated crushed gravel or stone, involving: 11.5 acres clearing and grubbing right of way; 116,000 cu. yds. rdwy. excav. without class. (Location A); 42,800 cu. yds. rdwy. excav. without class. (Location B); 530,000 sta. yds. overhaul; 3307 cu. yds. structure excavation; 13,100 cu. yds. untreated crushed gravel or stone surfacing; 250 cu. yds. class A Portland cement concrete (structures); 23,100 lbs. bar reinf. steel (structures); 736 lin. ft. 8-in.; 90 lin. ft. 12-in.; 2726 lin. ft. 18-in.; 454 lin. ft. 24-in.; 932 lin. ft. 30-in.; 406 lin. ft. 36-in.; 188 lin. ft. 48-in.; and 118 lin. ft. corr. metal pipe (clean and relay); 925 M. gals. water applied to surfacing; 5.7 mi. new hog-tight property fence; 1830 cu. yds. screenings in stockpile; 2.2 M. ft. board measure redwood timber, dense select all heart structural grade; 8.2 M. ft. board measure redwood timber, select all heart structural grade; 237 stations finishing roadway; 135 each, monuments complete in place.

The State will furnish corrugated metal pipe and cast steel frames and covers for drop inlets.

PACIFIC GROVE, Monterey Co., Cal.—City council declares intention (3240) to improve Lighthouse Ave., bet. Alder and Dennett Sts., involving cem. conc. gutters; 4-in. asph. conc. pavement, etc. 1911 Act. Bond Ace 1915. Hearing September 18. L. C. Fisher, deputy city clerk.

PACIFIC GROVE, Monterey Co., Cal.—City council declares intention (3241) to improve Bayview Ave., bet. Jewel Ave. and Dennett St., Cedar St., bet. Lighthouse and Bayview Aves.; Alder St., bet. Lighthouse Ave. and Bayview Ave., and Jewel Ave., bet. Pacific Ave. and point 510 ft. west, involving cem. conc. gutters; 2-in. asph. conc. pave on 4-in. crushed rock base, etc. 1911 Act. Bond Ace 1915. Hearing September 18. L. C. Fisher, deputy city clerk.

FAIRFAX, Marin Co., Cal.—Frank Main, Fairfax, at \$1200 awarded contract for bitumens paving in connection with school yard for Fairfax Grammar School District

CLARK COUNTY, Nevada—Until September 3, 2 P. M. bids will be received by State Highway Commission, Carson City, for grading, construct structures and gravel surfacing on 12.62 miles between California-Nevada State line and Jean. Certified check 5% required with bid. Plans on file in office of U. S. Bureau of Public Roads, 461 Market St., San Francisco, and obtainable from S. C. Durkee, state highway engineer at Carson City on deposit of \$15, of which \$10 is returnable.

SALINAS, Monterey Co., Cal.—Until September 2, 10 A. M., bids will be received by C. F. Joy, county clerk, to crush and stockpile broken stone at Greenfield in Supervisor District No. 3. Specifications obtainable from County Surveyor Cozzens on deposit of \$10, returnable.

WASHOE COUNTY, Nevada—Nevada Rock & Sand Co., Reno, at \$24,912 awarded contract by State Highway Commission to grade, construct structures and place surfacing materials on 2.54 miles bet. Sparks and Vista. Engineer's estimate, \$20,645.

PLACER COUNTY, Cal.—A. Teichert & Son, 1840 37th St., Sacramento, at \$4092 awarded contract by State Highway Commission for bituminous surface treatment between Roseville and Rocklin, involving 750 tons crushed gravel or stone screenings, ½-in to ¾-in at \$4 ton; 42 tons asph. road oil, \$26 ton.

LOS ANGELES COUNTY, Cal.—Southwest Paving Co., Washington Bldg., Los Angeles, at \$16,425 awarded contract by State Highway Commission to widen with bituminous treated road borders, 4.3 miles between Santa Clara river and the Castaic School.

HAYWARD, Alameda Co., Cal.—M. J. Bevanda, Savings and Loan Bldg., Stockton, at \$44,561.20 awarded contract by city council to improve portions of Smalley and Laurel Aves. and Delmar and Princeton Sts., involving: 165,450 sq. ft. 6-inch full penetration emulsified asphalt macadam paving (incl. grading), 12c.; 10,723 lin. ft. concrete curbing, 55c.; 21,202 sq. ft. concrete gutter, 25c.; 42,850 sq. ft. concrete sidewalk, 19c.; 1,297 lin. ft. 6-in. vitrified sanitary sewer, \$1.20;

1,350 lin. ft. 4-inch vitrified side sewer, \$95c.;

36 4x8-in. wye branches, \$1 each;

4 vit. pipe lampholes with concrete and c. i. frames, \$28 each;

340 lin. ft. concrete and part circle corr. iron drain culverts, \$4;

157 lin. ft. redwood header boards, 40c.

Other bids: Jack Casson, Hayward, \$52,249; Heafey-Moore Co., Oakland, \$62,203.55.

ALTUAS, Modoc Co., Cal.—City council rejects bids received August 18th to improve Main street between Carlo and 12th Sts., and new bids will be considered September 5, 8 P. M. Bidders were:

I. L. Ryder, San Jose, \$6,577; Heafey-Moore Co., Oakland, \$22,129; Clark & Henry Constr. Co., San Francisco, \$136,832

Hanrahan Co., San Francisco \$138,360

Due to error in the lowest bid, the bids were rejected. Project involves:

(1) 29,000 sq. yds. asph. conc. pave.; (2) 4,600 cu. yds. crushed rock subbase;

(3) 8,000 linear feet curbs and gutters (hyd. cement concrete);

(4) 4,600 sq. yds. hyd. cem. concrete sidewalks;

(5) 5,300 lin. ft. 4- and 6-inch water mains with fittings.

1911 Act. Bond Ace 1915. City will pay \$25,000 of total cost from General Fund in city treasury. Plans obtainable from S. A. Mushen, city engineer.

MARYSVILLE, Yuba Co., Cal.—City council declares intention (38) to improve 12th St., bet. E and Chestnut Sts.; E St., bet. 4th and 5th Sts.; E St., bet. 5th and 6th and E St. from 16th to 17th Sts., involving removal of concrete curbs and sprinkler system and trees; grading pave with 2½-in. asph. conc. base and 1½-in. asph. conc. surface; construct concrete curbs and gutters. 1911 Act. Bond Ace 1915. Hearing September 8. Chester O. Gates, city engineer.

STOCKTON, San Joaquin Co., Cal.—Until September 15, 11 A. M., bids will be received by Eugene D. Graham, county clerk, to improve Brum Road in town of Lockeford to Montgomery road in Rd. Dist. No. 2. Certified check or bond 10% payable to Chairman of the Board of Supervisors required with bid. Plans obtainable from Julius Manthey, county surveyor at Stockton.

SAN FRANCISCO—Until September 3, 2:30 P. M., bids will be received by S. J. Hester, Secretary, Board of Public Works, to improve:

Portions of Bosworth, Laidley and Sussex Sts., involving construction of artificial stone sidewalks. Estimated cost \$400.

Portions of Deming St., Manor Dr., Fairfield Way, 30th Ave., etc., involving construction of artificial stone sidewalks. Est. cost, \$400.

Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd Floor City Hall.

TULARE COUNTY, Cal.—A. J. & J. L. Fairbanks, South San Francisco, at \$87,452.44 submitted low bid to grade 4.54 miles of the Generals Highway in Sequoia National Park. Complete list of unit bids received on this project will be found on Page Five of this issue.

SAN FRANCISCO—Until September 3, 2:30 P. M., bids will be received by S. J. Hester, Secretary, Board of Public Works, to improve:

San Mateo Ave., bet. San Diego and Niantic Aves. (where not) involving armored concrete curbs; 6-in. vit. pipe sidersewers; 2-inch asphalt concrete surface pavement on 6-inch Class "F" concrete base. Est. cost \$800.

17th Ave., bet. Moraga and Noriega Sts., involving grading; concrete curb and walks; 8-in. and 12-in. vit. pipe sewers with manholes, side sewers and wye branches; br. catchbasins; 6-in. Class "F" conc. base pavement with 2-in. asphalt conc. surface. Est. cost \$16,000.

Crossing of 45th Ave. and Lawton St., involving grading; armored concrete curb; conc. walks; br. catchbasins; 6-in. Class "F" conc. base pavement with 2-in. asphalt conc. surface. Est. cost, \$2000.

Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, Third Floor, City Hall.

BELMONT, San Mateo Co., Cal.—John P. Lawlor, 372 7th Ave., San Francisco, at \$5875 awarded contract by town trustees to improve four streets in Belburn Village, involving pave; walks and gutters. Other bids: W. O. Tyson, Redwood City, \$6048; W. A. Dontanville, Salinas, \$7335.

CLARK COUNTY, Nevada—Nevada Paving Co., Reno, at \$32,799.56 awarded contract by State Highway Commission to furnish asphaltic fuel oil, apply and mix with crushed rock or crushed gravel surface from Crystal to West Slope Mormon Mesa, a length of 20.2 miles. Engineer's estimate, \$39,977.09.

AMADOR COUNTY, Cal.—Until September 17, 2 P. M., bids will be received by State Highway Commission to grade and surface with untreated crushed gravel or stone, 4.3 miles between Amador City and Martell.

See call for bids under official proposal section in this issue.

MONTEREY, Monterey Co., Cal.—City Engineer Howard D. Severance instructed by city council to prepare plans for paving the following streets: Pacific St., from Martin to Decatur St.; Polk St., from Alvarado to Hartnell St.; Madison St., from Hartnell to Monroe St.; Pearl St., from Alvarado to Main St.; Munras Ave., from Pearl to Webster St.;

Larkin St., from Madison to the bridge near the high school.

AMADOR COUNTY, Calif.—As previously reported, bids will be received Sept. 17 by State Highway Commission to grade and surface with untreated crushed gravel or stone, 4.3 miles between Amador City and Martell. Project involves:

- (1) 11.5 acres clear and grub right-of-way;
- (2) 116,000 cu. yds. rdwy. excav. without classification (Loc. A);
- (3) 42,300 cu. yds. do (Location B);
- (4) 530,000 sta. yds. overhaul;
- (5) 3,307 cu. yds. struc. excav;
- (6) 13,100 cu. yds. untreated crushed gravel or stone surfacing;
- (7) 280 cu. yds. class A cem. conc. (structures);
- (8) 23,009 lbs. bar reinf. steel (struc.);
- (9) 736 lin. ft. 8-in. corr. metal pipe;
- (10) 90 lin. ft. 12-in. do;
- (11) 2,726 lin. ft. 18-in. do;
- (12) 434 lin. ft. 24-in. do;
- (13) 932 lin. ft. 30-in. do;
- (14) 406 lin. ft. 36-in. do;
- (15) 188 lin. ft. 48-in. do;
- (16) 118 lin. feet corr. metal pipe (clean and relay);
- (17) 925 M. gals. water applied to surface;
- (18) 5.7 miles new hog-tight property fence;
- (19) 1,830 cu. yds. screenings in stockpiles;
- (20) 2.2 M. ft. b.m. redwood timber, dense select all heart structural grade;
- (21) 8.2 M. ft. b.m. redwood timber, select all heart struc. grade;
- (22) 237 sta. finish rdwy.;
- (23) 135 monuments.

State will fur. corr. metal pipe and cast steel frames and covers for drop inlets

SAN FRANCISCO—Bureau of Engineering, Department of Public Works, 3rd floor, City Hall, completes specifications to pave streets in Golden Gate Heights: Lawton St. bet. 12th and 17th Aves., etc. Estimated cost, \$58,000. Project involves:

- (a) 163,000 sq. ft. asphalt pavement, consisting of 6-in. waterbound macadam base with 2-inch asphalt concrete wearing surface;
- (b) 150,000 sq. ft. Emulsified asphalt pavement, consisting of 6-in. waterbound macadam base with 2-in. emulsified wearing surface;
- (c) 19,000 lin. ft. armored conc. curb;
- (d) 38 brick catchbasins;
- (e) 1 catchbasin to be reset;
- (f) 900 lin. ft. 10-in. V.C.P. culverts;
- (g) 5,000 lin. ft. 6-in. V.C.P. side sewers.

KING CITY, Monterey Co., Cal.—Until September 3, 8 P. M., new bids will be received by J. A. Wasson, city clerk, (6) to improve portions of First St., involving grading; hyd. concrete curbs; 5-in. hyd. cem. conc. pavement. 1911 Act. Bond Act 1915. Bids of A. J. Raich of San Jose at \$4191 rejected. Certified check 10% payable to city required with bid. Plans on file in office of clerk. Howard Cozens, Court House, Salinas, engineer.

LAWNSDALE, San Mateo Co., Cal.—Until September 8, 8 P. M., bids will be received by B. A. Weisenberger, town clerk, to improve Jewel Ave., involving grading; waterbound rock macadam base pavement with oil and screening surface; conc. cem. conc. curbs and gutters; steel reinforced cem. conc. culvert; cem. conc. storm water catchbasins and storm water manholes. Certified check 10% payable to town required with bid. Plans obtainable from George A. Kneese, engineer, Court-house, Redwood City.

OFFICIAL PROPOSALS

NOTICE TO BIDDERS

(Improvements — Naval Radio Compass Station—Eureka)

SEALED BIDS, indorsed "Bids for Improvements at the U. S. Naval Radio Compass Station, Eureka, California, Specification No. 6304," will be received at the office of the Public Works Officer, Navy Yard, Mare Island, California, until 11:00 o'clock A. M., on September 10, 1930, and then and there publicly opened, for fire protection pipe lines and hose housings, and a septic tank.

Specification No. 6304 and accompanying drawing may be obtained on application to the Commandant, Navy Yard, Mare Island, California.

Deposit of a check or postal money order for \$5.00, payable to the Chief of the Bureau of Yards and Docks, is required as security for the safe return of the drawing and specification.

A. L. PARSONS,
Chief of Bureau

August 18, 1930.

NOTICE TO CONTRACTORS

(Radio Station Improvements—Point Reyes)

SEALED BIDS, indorsed "Bids for Improvements at the Naval Radio Compass Station, Point Reyes, Calif., Specification No. 6305," will be received at the office of the Public Works Officer, Navy Yard, Mare Island, California, until 11:00 o'clock A. M., on September 10, 1930, and then and there publicly opened, for a septic tank, repairs to plank road, and a fire protection system at the U. S. Naval Radio Compass Station, Point Reyes, California.

Specification No. 6305 and accompanying drawing may be obtained on application to the Commandant, Navy Yard, Mare Island, California.

Deposit of a check or postal money order for \$5.00, payable to the Chief of the Bureau of Yards and Docks, is required as security for the safe return of the drawing and specification.

A. L. PARSONS,
Chief of Bureau

August 18, 1930.

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received at the office of the State Highway Engineer, Public Works Building, Sacramento, California, until 2 o'clock P. M. on September 17, 1930, at which time they will be publicly opened and read, for construction in accordance with the specifications thereto, to which special reference is made, of portions of State Highway as follows:

Amador County, between Amador City and Martell (X-Amad-65-B), about four and three-tenths (4.3) miles in length, to be graded and surfaced with untreated crushed gravel or stone.

Proposal forms will be issued only to those Contractors who have furnished a verified statement of experience and financial condition in accordance with the provisions of Chapter 644, Statutes of 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Bid will not be accepted from a Contractor to whom a proposal form has not been

issued by the Department of Public Works.

Plans may be seen, and forms of proposal, bond, contract and specifications may be obtained at the said office, and they may be seen at the offices of the District Engineers at Los Angeles and San Francisco, and at the office of the District Engineer of the district in which the work is situated. The District Engineers' offices are located at Eureka, Redding, Sacramento, San Francisco, San Luis Obispo, Fresno, Los Angeles, San Bernardino and Bishop.

A representative from the district office will be available to accompany prospective bidders for an inspection of the work herein contemplated, and contractors are urged to investigate the location, character and quantity of work to be done, with a representative of the Division of Highways. It is requested that arrangements for joint field inspection be made as far in advance as possible. Detailed information concerning the proposed work may be obtained from the district office.

No bid will be received unless it is made on a blank form furnished by the State Highway Engineer. The special attention of prospective bidders is called to the "Proposal Requirements and Conditions" annexed to the blank form of proposal, for full directions as to bidding, etc.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.
DEPARTMENT OF PUBLIC WORKS,
DIVISION OF HIGHWAYS.

C. H. PURCELL,
State Highway Engineer.

Dated August 20, 1930.

(August 25-Sept. 1-8-15)

NOTICE TO CONTRACTORS

(Improvements at Naval Radio Station—Point Montara)

SEALED BIDS, indorsed "Bid for Miscellaneous Repairs at the Naval Radio Compass Station, Point Montara, California, Specification No. 6306" will be received at the office of the Public Works Officer, Navy Yard, Mare Island, California, until 11:00 o'clock A. M. on September 10, 1930, and then and there publicly opened, for the completion of picket fence, added fire protection, replacement of the coal shed, and the enclosing of porches at the quarters of the radio personnel at the Naval Radio Compass Station, Point Montara, California.

Specification No. 6306 and accompanying drawings may be obtained on application to the Commandant, Navy Yard, Mare Island, California.

Deposit of a check or postal money order for \$5.00, payable to the Chief of the Bureau of Yards and Docks, is required as security for the safe return of the drawings and specification.

A. L. PARSONS,
Chief of Bureau.

August 16, 1930.

The Division of Simplified Practice of the Bureau of Standards, Department of Commerce, has just announced that the standing committee of the industry for Simplified Practice Recommendation No. 8-29, Range Boilers and Expansion Tanks, has reaffirmed the existing schedule, without change, for another year. A survey of production, conducted prior to the revision meeting indicated the degree of adherence to the recommendation to be approximately 98 per cent for Range Boiler and 99 per cent for Expansion Tanks.

"AIR TERMINALS" COVERED IN BOOKLET

Aviation's future, it is generally agreed, is as much dependent on the development of ground facilities as on advance in the design of planes and motors. Today there are relatively few airports equipped efficiently to serve the most modern commercial and transport ships, a situation which acts as a definite brake on aviation progress.

A concise, authoritative and attractive summary of airport needs and services is contained in the booklet, "Air Terminals," recently published by the Portland Cement Association. For a number of years this Association has been carefully watching the development of airports. Now, on the basis of experience in the use of concrete and other cement products in airport equipment, "Air Terminals" is offered as a guide to commercial and civic airport operators. Among the subjects discussed are airport design, buildings, runways, lighting facilities, drainage, hangar floors and aprons. There is also a section on European experience with concrete airport installations.

"Air Terminals" has been published opportunely at a time in which definite information about airport development is a real need. Copies may be had, without charge, on application to the Portland Cement Association, 33 West Grand Avenue, Chicago.

WHAT IS A CONTRACTOR?

There is no class of work that takes on as varying qualities as contracting. It appeals to men who are optimistic and to those who have born in them the longing to do things. The contractor must be a man first and possess the most uncommon thing, "common sense," and he must have "physical sense," the sense that tells a man without calculating wherein lies the center of gravity; the sense that tells a man values without estimating; the sense that tells a man quantities without measuring. He must have magnetism in order to gather his men about him. He must have a reputation for justice in order to hold them. He must be forceful in order to inspire energy in others. He must have a lawyer and a buyer. He must have the ingenuity of an inventor and the grasp of a Field Marshal. He must also know when not to be a politician. He must be a financier and an advertiser, and last but not least, a prophet.—Exchange.

PRESENT AND FUTURE TREND IN REAL ESTATE

Significant conclusions of present and future trends in real estate and in certain classes of building operations have been reported by Thomas S. Holden, vice-president of the F. W. Dodge Corporation, New York City, following the observations which Mr. Holden made of these trends while attending the Toronto convention of the National Association of Real Estate Boards. Mr. Holden summarizes the three following conclusions:

(1) Real estate men and real estate boards are assuming the position of intelligent leadership in planning and controlling the growth of their communities.

(2) Architects and contractors, including those who handle small residential projects as well as large commercial projects, are going to find it more and more necessary to ally themselves with real estate men and to render better service by better understanding of real estate economics.

(3) The present tendency is apparently toward larger, better financed, more responsible home builders and subdividers. On the higher grade projects the services of architects are being used more and more. In the less expensive projects architects can probably render valuable service if they take up plot planning and cost reduction methods. There is a tendency in the secondary market to minimize the importance of dealers and builders and to increase the importance of realtors, subdividers and development companies. Expert planning talent is needed in this field, even for projects using mass production houses.

NEW HEAVY-CURRENT HIGH VOLTAGE MAGNETIC SWITCHES

The General Electric Company announces the CR-7006-T-5 oil-immersed magnetic switches for heavy-current duty in controlling large sizes of motors. The new switches supersede the General Electric CR-7006-T-3, 150-ampere magnetic switch. They consist of a three-pole, 200-ampere, oil-immersed contractor, a temperature-circuit relay, two current transformers and an undervoltage relay all mounted on a suitable floor-mounted framework, which is built with steel front.

Instantaneous undervoltage protection is obtained with one form when used with a drum switch. Time delay undervoltage protection is obtained with the other form when used with momentary contact type push button control.

For standard motors the switches are rated 750 horsepower at 2500 volts, and 1200 horsepower at 4000 volts. They have an approximate weight of 325 pounds and require 5½ gallons of oil each. These switches may be used on 6600 V, 750 horsepower maximum, by providing 6600 V current transformers.

Z. S. Leymel, mayor of Fresno, advocates a bond issue for \$1,000,000 to finance erection of a new civic auditorium.

The question has been brought to the front through Fresno's effort to bring the state convention of the legion here in 1932. The present auditorium is deemed inadequate to accommodate the convention crowds. The mayor said that Fresno could build an auditorium at a cost ranging between \$1,000,000 and \$1,500,000. He referred to the auditoriums of Sacramento and Stockton, which cost in the neighborhood of \$1,000,000 and each of which will accommodate approximately 8,000 persons.

"Adoption of a plan whereby employees would be paid an annual instead of a daily wage would tend to bring security to workers and serve as a major remedy for unemployment," President William Green of the American Federation of Labor, believes.

Green explained in an interview with the United Press that employment on an annual wage basis would cause employers to spread out their work in such a way that lean market periods would not result in many men being without jobs.

The responsibility for providing jobs lies primarily with employers, organized labor's chief claim. He put up to them a demand for fewer hours of work, fewer days a week and advance planning or production to provide employment during seasonal let-downs. High wages must be maintained to keep up the markets for the goods, he said.

Green saw "some indication of slight improvement" in the present employment situation, but predicted that recovery would be slow.

Contracts Awarded

Liens, Acceptances, Etc.

BUILDING PERMITS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
1075	Peterson	Jaekle	4000
1076	Mayes	Argonaut	20000
1077	Moore	Phoenix	1900
1078	Romero	Barsotti	1500
1079	Hoffman	Spivock	11000
1080	Meyer	Owner	4000
1081	Prendergast	Armabust	5000
1082	Heglin	Owner	4000
1083	Schiavi	Dalton	4600
1084	Meyer	Owner	10000
1085	Nelson	Owner	4500
1086	Stanley	Owner	10000
1087	Wesendunk	Owner	4000
1088	Oser	Schultz	1000
1089	Finegan	Owner	3500
1090	Christensen	Owner	8000
1091	Truscon	Owner	40000
1092	Freeseley	Speldel	1000
1093	Butler	Pay	5800
1096	Boerli	Owner	2500
1097	Kingston	Owner	3000
1098	De Benedetti	Owner	4000
1099	Coe	Owner	2000
1100	Thompson	Owner	4000
1101	Ruppel	Hummer	7000
1102	General	Gauley	6100
1103	General	Gauley	6100
1104	Grahn	Owner	4000
1105	Peterson	Owner	3500
1106	Heyman	Owner	9000
1107	Scientist	Moore	20000
1108	Haskins	Owner	1000
1109	Battersby	Owner	3500
1110	Houpe	Malloch	1000
1111	Layne	Coburn	1000

DWELLING
(1075) E PRAGUE 68 S Geneva Ave.; one-story and basement frame dwelling.
Owner—H. W. Petersen, 912 Geneva.
Plans by D. E. Jaekle, Call Bldg.

\$4000

APARTMENTS
(1076) NE KEARNY and Chestnut; three-story and basement frame (6) apartments.
Owner—C. S. Mayes, 645 Stockton St.
Architect—C. O. Clausen and F. F. Amandes, Hearst Bldg.
Contractor—Argonaut Inv. Co., 252 Kearny St.

\$20,000

ALTERATIONS
(1077) NE FIRST & MISSION STS.; alterations to sidewalk lights.
Owner—C. C. Moore & Co., 461 Market St.
Architect—None.
Contractor—Phoenix Simpton Co., 520 6th St.

\$1000

ALTERATIONS
(1078) 1333 REVERE; alterations to store front.
Owner—J. Romero, 1397 Revere Ave.
Architect—None.
Contractor—A. Barsotti, 1512 Quesada.

\$1500

SHOWROOM
(1079) N McALLISTER 100 E Octavia Sts.; two-story and basement class C showroom.
Owner—L. Hoffman, 757 McAllister St.
Plans by L. O. Ebbets.
Contractor—Spivock & Spivock, Hohart Bldg.

\$11,000

DWELLING
(1080) W TERESITA 134 S Evelyn;

one-story and basement frame dwelling.
Owner and Builder—Meyer Bros., 727 Portola Drive.
Plans by D. T. Burk, 727 Portola Dr.

\$4000

DWELLING
(1081) NW AVILA 195 SW Marina; one-story and basement frame dwelling.
Owner—G. E. Prendergast, 3320 Divisadero St.
Plans by W. E. Hason, Mill Valley.
Contractor—H. W. Armabust, 2492 28th Avenue.

\$5000

DWELLING
(1082) W 28th AVE. 150 N Judah St.; one-story and basement frame dwelling.
Owner—B. Heglin, 1245 24th Ave.
Architect—None.

\$4000

DWELLING
(1083) E SAN JOSE 125 S Seneca; 1-story and basement frame dwelling.
Owner—L. & R. Schiavi.
Plans by A. J. Dalton.
Contractor—A. J. Dalton, 5498 Mission Street.

\$4600

DWELLINGS
(1084) W 33rd AVE. 175 S Ulloa; two 1-story and basement frame dwellings.
Owner and Builder—Meyer Bros., 727 Portola Drive.
Plans by D. T. Burk, 727 Portola Dr.

each \$5000

DWELLING
(1085) E PINEHURST 68 N Ocean; one-story and basement frame dwelling.
Owner—Fernando Nelson & Sons, 2 West Portal.
Architect—None.

\$4500

RESIDENCE
(1086) W MONTEREY 290 S North Gate; 2-story and basement frame residence.
Owner—G. W. Stanley, 467 Turk St.
Plans by D. E. Jaekle, 744 Call Bldg.

\$10,000

DWELLING
(1087) SE ADMIRAL and Camellia; one-story and basement frame dwelling.
Owner—A. A. Wesendunk, 1625 San Jose Ave.
Architect—B. K. Dobkowitz, 425 Montecrey Blvd.

\$4000

ALTERATIONS
(1088) 1223 FILLMORE ST.; alterations to loft, steel stairs, etc.

Owner—H. J. Oser, 46 Kearny St.
Architect—None.
Contractor—Schultz Construction Co., 46 Kearny St.

\$1000

DWELLING
(1089) E EXETER 250 S Paul; one-story and basement frame dwelling.
Owner—J. Finegan, 3314 Army St.
Architect—None.

\$3500

DWELLINGS
(1090) W 25th AVE. 350 N Santiago; two 1-story and basement frame dwellings.
Owner—H. Christensen, 1422 27th Ave.
Architect—None.

each \$4000

CRANE & RUNWAY
(1091) NW CARROLL and Newhall; one-story outside crane and runway, steel and concrete.
Owner—Truscon Steel Co., Call Bldg.
Plans by Owner.

\$40,000

OFFICE
(1092) N McALLISTER 37 E Hyde; miniature golf course office and comfort station.
Owner—H. Freeseley and E. O. Jellineck.
Architect—None.
Contractor—P. F. Speldel, 185 Stevenson St.

\$1000

ALTERATIONS
(1093) ASHBURY ST. 190 S Waller; alterations to yard.
Owner—Rev. J. Butler, 1100 Franklin Street.
Architect—H. A. Minton, Underwood Building.
Contractor—Fay Imp. Co., 760 Phelan Building.

\$5800

ALTERATIONS
(1096) NO. 107 BRAZIL AVE. Alter dwelling for (2) flats.
Owner—A. Boerli, Premises
Plans by D. E. Jaekle, 744 Call Bldg., San Francisco.

\$2500

ALTERATIONS
(1097) NO. 1185 MARKET ST. Alter for indoor golf course.
Owner—S. Kingston, 85 Cervantes Blvd., San Francisco.
Plans by C. Biedenbach, 2626 Claremont Ave., Berkeley.

\$3000

DWELLING
(1098) E ALEMANY 125 S San Juan Two-story and basement frame dwelling.
Owner—A. De Benedetti, 22 Cotter St., San Francisco.
Architect—C. M. Baker, Alexander Bldg., San Francisco.

\$4000

ALTERATIONS
(1099) NO. 3026 MISSION. Alter for miniature golf course.
Owner—E. S. Coe, 615 Geary St., San Francisco.
Architect—None.

\$2000

DWELLING
(1100) E FORTY-THIRD AVE 50 S Balboa. One-story and basement frame dwelling.
Owner—N. Thompson, 2700 Anza St., San Francisco.
Architect—None.

\$4000

CAPITAL CITY TILE COMPANY

J. C. PALEN

Manager

914 Seventh Street

Sacramento - - - California

DWELLING

(1101) E OLIVER 90 S Mission.
One-story and basement frame
dwelling.
Owner—L. Ruppel, 29 Oliver St., San
Francisco.

Architect—None.
Contractor—W. T. Hummer, 5811 Mis-
sion St., San Francisco. \$7000

SERVICE STATION

(1102) SE MONTEREY and Genes-
see; one-story steel frame gas
service station.
Owner—General Petroleum Corp., 310
Sansome St.

Architect—None.
Contractor—Gaugley & Yaunt, 299 22nd
Ave. \$6100

SERVICE STATION

(1103) SW FIFTEENTH and How-
ard Sts.; one-story steel frame
service station.

Owner—General Petroleum Corp., 310
Sansome St.
Architect—None.
Contractor—Gaugley & Yaunt 299 22nd
Ave. \$6100

DWELLING

(1104) E TOCOLOMA 30 N Lathrop;
one-story and basement frame
dwelling.
Owner—W. H. Grahn, 2965 Mission St.
Architect—None. \$4000

DWELLING

(1105) NW MAJESTIC 200 NE Lake
St.; 1-story and basement frame
dwelling.
Owner—A. R. Peterson, 1435 Church
St.
Architect—None. \$3500

DWELLINGS

(1106) E 30th AVE. 250 N Fulton;
two 1-story and basement frame
dwellings.
Owner—Heyman Bros., 742 Market St.
Architect—None. \$4500 each

ALTERATIONS

(1107) NE CALIFORNIA and Frank-
lin; alterations to church and
Sunday school.
Owner—First Church of Christ Sci-
entist.

Architect—H. H. Guttererson, 526 Pow-
ell St.
Contractor—Moore & Madsen, 557
Market St. \$20,000

ALTERATIONS

(1108) S BALBOA 55 E 39th Ave.;
alterations for miniature golf
course.
Owner—R. Haskins & S. Bell, 667
35th Ave.
Architect—None. \$1000

DWELLING

(1109) NW RUSSIA and Munich;
one-story and basement frame
dwelling.
Owner—G. M. Battersby, 478 Munich
St.
Architect—None. \$3500

GOLF COURSE

(1110) SW POST and Fillmore;
alterations for miniature golf
course.
Owner—L. J. Loupe, Alexander Bldg.
Architect—None.
Contractor—J. S. Malloch, 666 Mission
St. \$1000

REPAIR

(1111) 383 NOE ST.; repair fire dam-
age.
Owner—J. Coyne, 280 7th St.
Architect—None.
Contractor—I. W. Coburn, 712 Hearst
Bldg. \$1000

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Am't.
172	Suncal	Mission	45900
173	Weinstein	Jacks	8327
174	Dunn	Brueck	2250
175	Marian	Mission	27200
176	Same	Same	1000
177	Groschel	O'Leary	867
178	Bosley	Ellington	1327
179	Ruppel	Hummer	6500

EXCAVATING, ETC.

(172) N WALLER ST. 100 W Brod-
erick N 72-5 W 70-4% m or l S
24-031 E 75-0% W 50-74%; excava-
ting, grading, concrete, reinforce-
ing steel, rough carpenter, metal
furring and lathing and plastering
on 6-story and basement class B
apartments.

Owner—Suncal Investment Corp.
Architect—Albert H. Larsen, 447 Sut-
ter St.
Contractor—Mission Concrete Co., 270
Turk St.

Filed Aug. 21, '30. Dated Aug. 15, '30.
Concrete poured to 1st floor.....\$6500
Concrete poured to 4th floor.....7000
" all poured and forms striped 7000
Ready for plastering.....3000
Brown coated.....2000
Interior plastering completed.....2000
Exterior plastering done and
setting & casting of all exter-
ior cast stone.....2000
Completed and accepted.....4910

TOTAL COST, \$45,900
Bond, \$22,950. Sureties, W. A. George
and Chris Berg. Limit, 100 days.
Plans and Spec. filed.

ALTERATIONS

(173) 119 POST ST.; alterations to
building.
Owner—Weinstein Co., Inc., 1041 Mar-
ket Street.
Architect—Hyman & Appleton, 68 Post
Street.

Contractor—Jacks & Irvine, Inc., 74
New Montgomery St.
Filed Aug. 21, '30. Dated Aug. 20, '30.
1st and 15th of each month.....75%
Usual 35 days.....25%

TOTAL COST, \$8327
Limit, 30 days. Plans and Spec. filed.

ALTERATIONS

(174) E BRUSSELS ST. 125 N Silli-
man St. E 120 x N 25; alterations
and additions to residence.
Owner—M. Dunn.

Architect—None.
Contractor—M. Brueck, 600 Bayshore
Boulevard.
Filed August 22, '30. Dated

Roof on.....\$750
Completed and accepted.....750

Usual 35 days.....750
TOTAL COST, \$2250

Limit, 50 days. Plans and Spec. filed.

CONCRETE & CARPENTER WORK

(175) SE CALIFORNIA and Joice 80x
77-6; concrete and carpenter work
on building.

Owner—Marian Realty Co., 110 Sut-
ter Street.

Architect—H. C. Baumann, 251 Kear-
ny Street.

Contractor—V. Fassio as Mission Con-
crete Co., 270 Turk St.

Filed Aug. 22, '30. Dated Aug. 21, '30.
Concrete poured to 5th floor.....\$6800
Fire wall poured.....6800

Completed and accepted.....6800
60 days after.....6800

TOTAL COST, \$27,200
Limit, 60 days. Plans and Spec. filed.

(176) SIDEWALK, basement floor &
concrete steps on above.

Contractor—V. Fassio as Mission Con-
crete Co., 270 Turk St.

Filed Aug. 22, '30. Dated Aug. 21, '30.
Completed and accepted.....\$1000

BOILER

(177) 680 O'FARRELL ST.; steam
boiler and hot water tank for bldg.
Owner—Mrs. Henry Groschel, 125 Al-
bion.

Architect—None.
Contractor—E. E. O'Leary, 14 28th St.
Filed Aug. 22, '30. Dated Aug. 14, '30.
Completed.....\$367.25
Bond, \$367.25. Sureties, United States
Fidelity and Guaranty Co. Limit, 14
days.

BUILDINGS

(178) N BROADWAY 37-6 W Octa-
via W 35 N 100 W 65 N 25 E 137-
6 S 25 W 37-6 S 100; all work on
two 2-story and basement frame
buildings.

Owner—Wm. B. Bosley, 1904 Broad-
way.

Architect—Ed. B. Seeley, 255 Califor-
nia Street.

Contractor—E. Ellington, 85 Liberty
Street.

Filed Aug. 23, '30. Dated Aug. 20, '30.
Half completed.....\$497.00
Completed and accepted.....498.25
Usual 35 days.....331.35

TOTAL COST, \$1327
Bond, \$664. Sureties, C. Postad and
G. Hall. Forfeit, \$10 per day. Limit,
30 days. Plans and Spec. filed.

DWELLING

(179) NE OLIVER 90 SE Mission SE
52xNE 178. All work for one-story
and basement frame dwelling.

Owner—Louis Ruppel, 29 Oliver St.,
San Francisco.

Architect—None.

Contractor—W. T. Hummer, 5811 Mis-
sion St., San Francisco.

Filed Aug. 25, '30. Dated Aug. 25, '30.
Frame up.....\$1625
Plaster on.....1625
Completed and accepted.....1625
Usual 35 days.....1625

TOTAL COST, \$6500
Bond, none. Limit, 90 days. Forfeit,
none. Plans and specifications filed.

COMPLETION NOTICES

San Francisco County

Recorded	Accepted
August 21, 1930—NW SEVENTH and Brannan Sts. N A Petersen to Einar C Petersen.....August 14, 1930	
August 21, 1930—1427 FILLMORE St. Arctic Refrigerator Co to Charles Freis.....August 4, 1930	
August 21, 1930—W 30th AVE 150 N Kirkham 25x120. Herbert J and Katherine G Hunt.....August 20, 1930	
August 21, 1930—W 29th AVE 150 S Kirkham S 50 x W 120. Nath- aniel Thompson to whom it may concern.....August 20, 1930	
August 21, 1930—LOT 27 BLK 16, Hillcrest. Burt C and Anna Yoe- man to Antonia Melodia.....August 11, 1930	
August 20, 1930—W 30th AVE 150 N Fulton N 25 x W 120. Moses and Dora Maisler to Samuel Douglas.....August 20, 1930	
August 20, 1930—LOT 14 BLK 5385 St Mary's Park. The Roman Cath- olic Archbishop of San Francisco to Andrew R Johnson.....July 25, 1930	
August 20, 1930—LOT 13 BLK 5385 St Mary's Park. The Roman Cath- olic Archbishop of San Francisco to Andrew R Johnson.....July 25, 1930	
August 20, 1930—NE 18th AVE and Vicente. The Roman Catholic Archbishop of San Francisco to S Rasori.....August 12, 1930	
August 22, 1930—W HAMPSHIRE 222-6 S Mariposa N 100 W 200 S 100 E 200. Sunset Scavenger Co to Richard H Harms.....Aug. 20, 1930	
August 22, 1930—LOT 7 BLK 8, map Tract A Peoples Hd Assn. R Stenman to J F Thorne.....Aug. 18, 1930	
August 21, 1930—NE DARLEN WAY 173 and 214 SE Westgate Drive,	

41x90 each. S Larsen and V P Lagueno to whom it may concern August 20, 1930
 Aug. 25, 1930—E DOWNEY bet. Clayton and Ashbury known as 150 Downey St. A Noyan to Harry W Strong August 25, 1930
 Aug. 25, 1930—LOT 5 BLK 22, Map Sunnyvale Hld. Assn. Vittorio Nasti to Harry Aptle. Aug. 20, 1930
 Aug. 16, 1930—E STANYAN 100 S Oak 100x100, No. 424 Stanyan St. A Hinkelmann to C Anderson August 16, 1930
 Aug. 25, 1930—SE BRODERICK & North Point 62-6x87-4. T I Strand to whom it may concern August 25, 1930
 August 23, 1930—N HAIGHT 155 E Clayton St E 27-6 x N 137-6. M Stelling Jr to C T Magill August 18, 1930
 August 23, 1930—SE POST ST and Leavenworth E 137-6 x S 137-6. The Schmiedell Est to J F Smith August 8, 1930
 August 23, 1930—SW POST AND Jones Sts S 137-6 x W 78. The Schmiedell Est to J F Smith August 22, 1930
 August 25, 1930—100 W of GENE SEI St on N Judson Ave W 25 x 80-7. J Leregen to whom it may concern August 21, 1930
 August 22, 1930—NE IRVING ST & 15th Ave E 125 x N 100 OL 655. Richfield Oil Co of California to L M Bruce August 16, 1930

LIENS FILED

San Francisco County

Recorded	Amount
August 23, 1930—BLK 2047 LOT 23, Assessor's Map. L Toge vs P and D Ackenhell and K W Oertel.....	\$110
August 23, 1930—N SENECA 50 W Mission N 50 x W 43. South City Lbr & Supply Co, \$1974.03; M Deslano, \$339.50, vs Egidio Evangelisti M and E Miraglia.....	\$58.50
August 21, 1930—SW VICENTE and 14th Ave W 27-6 x S 100. P Cera-gioli vs G J Elkington Sr, G J Elkington Jr, G J Elkington & Sons, A H Elkington.....	\$328.81
August 20, 1930—N SENECA 50 W Mission N 50 x W 43 S 50 E 43 blk 1 Oscar Heyman & Bro Sub ptn West Side Map 1. Sam Patania vs Egidio Evangelisti, Michael & Emerida Miraglia	\$144
August 20, 1930—NE MOHAVK Ave 120.65 NW Mission 25x100. P E Fagerberg vs Michael and Erme-rinda Miraglia and J Evangelisti.....	\$58.50
(Correction in Location)	
August 20, 1930—N SENECA 50 W Mission N 50 x W 43 Blk 1, Oscar Heyman & Brother Sub ptn West End Map No. 1. Bernal Rancho. Roma Hardwood Floor Co vs M Miraglia and E Evangelisti.....	\$257
Aug. 25, 1930—NE ORTEGA and Twenty-second Ave E 107-6 x N 100. Jas R McElroy vs Jean M Hitchcock and Florence M Douglas	\$1236.25

RELEASE OF LIENS

San Francisco County

Recorded	Amount
August 21, 1930—N SAN MATEO Ave 334 W San Diego Ave W 26 x N 96.51. California Const Co to Genoeffa Gulst	\$247
Aug. 25, 1930—E BAKER 87-6 N Jefferson N 50xE 68 WA 559. V E Ratto to Amity E and Samuel Orack	\$4700
Aug. 25, 1930—E FORTIETH Ave 150 N Fulton N 25xW 120, Richmond Blk 419. Russell Hinton to Herman and Rosa Gabn.....	\$116.75

BUILDING PERMITS

Alameda County

No.	Owner	Contractor	Amt.
1046	Takahashi	Globe	5000
1047	Fleming	Owner	3550
1048	Penton	Peters	3500
1049	Lincoln	Owner	2350
1050	Votto	Johnson	4950
1051	Moffitt	Owner	10000
1052	Derry	Owner	5000
1053	Williams	Anderson	4500
1054	Howard	Owner	3500
1055	Pickrell	Owner	8000
1056	Howard	Owner	4000
1057	Tomich	Berg	5000
1058	Matoza	Nunes	3600
1059	Merrell	Owner	5600
1060	Mulvany	Rice	8000
1061	Soake	Erickson	2000
1062	Cabral	Reimers	16060
1063	Monez	Owner	3500
1064	Bertoldi	Owner	2500
1065	Eandi	Owner	1100
1066	Pearl	Sigwald	—

DWELLING
 (1046) 1635 BLAKE ST., BERKE-
 LEY; one-story 6-room frame and
 stucco dwelling.
 Owner—H. M. Takahashi, 1633 Blake
 St., Berkeley.
 Architect—Wilkinson and Weck, 6250
 Acacia Ave., Berkeley.
 Contractor—Globe Corp., Piedmont
 Ave., Oakland. \$5000

DWELLING
 (1047) E VICTOR AVE., 100 S Atlas,
 OAKLAND; 1-story 5-room dwell-
 ing.
 Owner and Builder—Andrew Fleming,
 3906 Vale Ave., Oakland.
 Architect—None. \$3950

ALTERATIONS
 (1048) 5802 FOOTHILL BLVD., OAK-
 LAND; alterations.
 Owner—Fenton Creamery, 41st and
 Howe, Oakland.
 Architect—None.
 Contractor—Fred W. Peters, 30 Grand
 Ave., Oakland. \$3500

DWELLING
 (1049) SE COR. 84th & OLIVE, OAK-
 LAND; one-story 4-room dwelling.
 Owner and Builder—Grace D. Lincoln,
 514 Estudillo Ave., San Leandro.
 Architect—None. \$2350

DWELLING
 (1050) W MONTEREY BLVD., 210 S
 Redwood Road, OAKLAND; one-
 story 6-room dwelling.
 Owner—A. Votto, 3303 E 22nd Street,
 Oakland.
 Architect—None.
 Contractor—Q. W. Johnson, 4554
 Tompkins St., Oakland. \$4950

ALTERATIONS
 (1051) SW COR. SEVENTH & Wash-
 ington Sts., OAKLAND; alterations
 and addition.
 Owner and Builder—A. B. Moffitt, 1615
 Broadway, Oakland.
 Architect—None. \$10,000

DWELLING
 (1052) NO. 531 LEE AVE., SAN LE-
 ANDRO. Two-story frame and
 stucco dwelling.
 Owner—Derry Bros., 614 E-14th St.,
 Oakland.
 Architect—I. M. Johnson. \$5060

DWELLING
 (1053) NO. 2006 SANTA CLARA AVE.
 ALAMEDA. One-story 5-room
 frame and stucco dwelling
 Owner—George S. Williams, 2061
 Lincoln Ave., Alameda.
 Architect—Owner.
 Contractor—Carl O. Anderson, 2005
 Cropley Ave., Oakland. \$4500

DWELLING
 (1054) NO. 1547 SANTA CLARA
 AVE., ALAMEDA. Two-story five-
 room frame and stucco dwelling
 Owner—C. C. Howard, 1541½ Santa
 Clara Ave., Alameda.
 Architect—None. \$3500

DWELLING
 (1055) NO. 1520 GIBBONS DRIVE,
 ALAMEDA. Two-story seven-
 room frame and stucco dwelling.
 Owner—J. H. Pickrell, 332 Santa Clara
 Ave., Alameda.
 Architect—None. \$8000

DWELLING
 (1056) NO. 1545 SANTA CLARA
 AVE., ALAMEDA. Two-story 6-
 room frame and stucco dwelling.
 Owner—C. C. Howard, 1541½ Santa
 Clara Ave., Alameda.
 Designer—W. W. Dixon, 1844 Fifth
 Ave., Oakland. \$4000

DWELLING
 (1057) NO. 4219 DETROIT ST., ORK-
 LAND. One-story 5-room dwlg.
 Owner—Marko Tomich, 326 Hobart
 St., Oakland.
 Architect—None.
 Contractor—A. M. Berg, 3854 Midvale
 Ave., Oakland. \$5000

DWELLING
 (1058) NO. 1103 DAVIS ST., SAN
 LEANDRO. Five-room frame and
 stucco dwelling.
 Owner—T. Matoza, Premises.
 Architect—None.
 Contractor—A. S. Nunes, 376 Castro
 St., San Leandro. \$3600

DWELLING
 (1059) NO. 762 HILDALE, BER-
 KELEY. Two-story 7-room stucco
 dwelling.
 Owner—Paul Merrell, 175 14th St.,
 Oakland.
 Architect—None. \$5600

DWELLING
 (1060) NO. 793 SAN DIEGO ST.,
 BERKELEY. Two-story 8-room
 stucco dwelling.
 Owner—H. A. Mulvany, 1524 Arch
 St., Berkeley.
 Architect—Sidney B., Noble T and
 Archie Newsum, Federal Realty
 Bldg., Oakland.
 Contractor—G. E. Rice, 1455 Hopkins
 St., Oakland. \$3000

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San Francisco

CREAMERY

(1061) NO 1599 HOPKINS ST., **BERKELEY**. Brick and concrete creamery.
Owner—E. J. Soake, 5001 Foothill Blvd., Oakland.
Architect—A. W. Smith, American Bank Bldg., Oakland.
Contractor—A. Erickson, 2544 34th Ave., Oakland. \$2000

DWELLINGS

(1062) S 35th ST., 175 and 150 E **SAN PABLO, OAKLAND**; two 1-story, 12-room, 6-family dwellings.
Owner—J. Cabral, 963 35th St., Oakland.
Architect—None.
Contractor—Irwin H. Reimers, 745 Walla Vista Ave. \$8000 each

DWELLING

(1063) 1868 CLEMENS RD., **OAKLAND**; 1-story 5-room dwelling.
Owner—A. H. Monez, 4350 Bridgeview Dr., Oakland.
Architect—None. \$3500
OFFICE

(1064) NE COR. 5th AVE. and E 21st ST., **OAKLAND**; 1-story office and comfort station.
Owner—Jos. Bertoldi, 615 Brooklyn Ave., Oakland.
Architect—None. \$2500

ADDITION

(1065) 1336 61st ST., **OAKLAND**; addition.
Owner—James J. Eandi, 1336 61st St., Oakland.
Architect—None. \$1100

DWELLING

(1066) N SANTA RITA 55 W 38th Ave., **OAKLAND**; 1-story 4-room dwelling.
Owner—E. F. Pearl, 2301 38th Ave., Oakland.
Architect—None.
Contractor—Sigwald Bros., 916 Alma Ave.
Cost not given.

BUILDING CONTRACTS

Alameda County

No	Owner	Contractor	Am't.
147	Scheeline	Rosenberg	286
148	Same	Pacific	285
149	Same	Sheridan	1491
150	R C Archbishop	Icardi	8387

ELECTRICAL WORK

(147) 420 14th ST., Oakland; electrical work in remodeling store and office building.
Owner—Louis Scheeline.
Architect—Russell Guerne de Lappe, 1710 Franklin St., Oakland.
Contractor—T. L. Rosenberg & Co., 411 Webster St., Oakland.
Filed Aug. 21, '30. Dated Aug. 19, '30.
Progress payments.
Usual 35 days. 25%
TOTAL COST, \$286.36
Limit, 30 days. Plans and Spec. filed.

(148) IRON WORK on above.
Contractor—Pacific Iron Works, 1155 6th St., Oakland.
Filed Aug. 21, '30. Dated Aug. 18, '30.
Progress payments.
Usual 35 days. 25%
TOTAL COST, \$285

(149) CARPENTER WORK on above.
Contractor—Robert E. Sheridan, 286 12th St., Oakland.
Filed Aug. 21, '30. Dated Aug. 18, '30.
Progress payments.
Usual 35 days. 25%
TOTAL COST, \$1491

HALL

(150) NE ATHERTON ST. AND Eighty-second Ave., Oakland.
General construction for one-story parish hall building.
Owner—The Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.
Architect—H. A. Minton, 618 Underwood Bldg., San Francisco.
Contractor—Ernest Icardi, 227A Collierwood St., San Francisco.
Filed Aug. 25, '30. Dated Aug. 21, '30.
On 1st of each month. 75%
Usual 35 days. Balance
TOTAL COST, \$8387
Bonds Performance, \$848.30; labor and material, \$483. Surety, Massachusetts Bonding & Insurance Co. Limit, 05, 1930. Forfeit none. Plans and specifications filed.

COMPLETION NOTICES

Alameda County

Recorded Accepted

Aug. 25, 1930—NO. 3733 VICTOR Ave., Oakland. Sidney B Smith to John Fleming. Aug. 16, 1930
Aug. 26, 1930—NO. 1578 LE ROY Ave., Berkeley. Mira Maclay to Marcus A Peel. August 25, 1930
August 23, 1930—NW VAN DYKE Ave 415 ft SW of Brooklyn Ave, Oakland. Axel C Nelson to Henry Nelson. August 20, 1930
August 22, 1930—PTN LOT 1 BLK 6 Thousand Oaks Heights, Berkeley. Mac Jordan to whom it may concern. August 20, 1930
August 22, 1930—GRAVE 5 PLOT 17 Mt View Cemetery, Oakland. Wells Fargo Bank & Union Trust Co as executor Est of Augusta L Moffitt to T Donohoe as Donohoe & Carroll. August 15, 1930
August 22, 1930—737 COLLIER DR., San Leandro. Alice M and G A Humphert to whom it may concern. August 19, 1930
August 22, 1930—RADIUM. Southern Pacific Co to Kaiser Paving Co. August 12, 1930

August 22, 1930—984 OXFORD ST., Berkeley. Agnes Berry Martinale to Fox Bros. August 22, 1930
August 21, 1930—5369 WALNUT ST., Oakland. Josephine L ahey to Walter Pressler. August 19, 1930
August 21, 1930—LOT 13 BLOCK 2, Lakeshore Highlands, Oakland Edward J Johnson to whom it may concern. August 20, 1930
August 21, 1930—1136 PARKER ST., Berkeley. Maria Elizabeth Gaia to Charles Marietta. August 11, 1930
August 21, 1930—E 14th ST & 159th Ave, Oakland. Associated Oil Co to The Dyer Const Co. August 13, 1930
August 20, 1930—NEWARK, Alameda Co. Southern Pacific Company to J B Rogers. August 10, 1930
August 19, 1930—1199 60th AVENUE, Oakland. John Mason to whom it may concern. August 19, 1930
August 19, 1930—CAMPUS OF THE University of California, Berkeley. The Regents of the University of California to Daahli-Thomas Awning & Canvas Co. August 8, 1930
August 19, 1930—6464 ESTATES DR Oakland. Kathryn D and C C Herriott to whom it may concern. August 19, 1930
August 20, 1930—1136 PARKER ST, Berkeley. Maria Elizabeth Gaia to Charles Marietta. August 11, 1930
August 21, 1930—E 14th ST & 159th Ave, Oakland. Associated Oil Co to The Dyer Const Co. August 13, 1930
August 20, 1930—S PALM AVE 100 ft W of Almond Ave, Livermore. Walter M and Edythe H Woodward to J L Hutchins. Aug. 18, 1930
August 20, 1930—NW EUCALYPT St and San Pablo Ave, Albany. Jos De Veere to The Dyer Const Co. August 12, 1930

LIENS FILED

ALAMEDA COUNTY

Recorded	Amount
August 23, 1930—EAST LINE VAL-DEZ ST 220 ft N of 24th St, Oakland. E Flenier vs Tillie R Spear	\$1568.66
August 23, 1930—5268 GOLDEN Gate Ave, Oakland. Sunset Lbr Company vs Ralph Olivi, D W Parks.	\$200
August 22, 1930—LOT 34, Map No 2, Echo Tract, Oakland. Leo Brischacher Estate Hardware vs John Vallance, R H Weeks, Weeks Construction Co	\$135.50
August 21, 1930—PTN LOT 34, Map No 2, Glen Echo Tract, Oakland. Bay City Asbestos Co, Inc vs John Vallance, Weeks Const Co	\$37.50
August 20, 1930—PTN LOT 34, Map No 2 of Glen Echo Tract, Oakland. L F Witharm, \$102; Superior Tile & Products Co, \$100, vs John Vallance and Weeks Const Co	

RELEASE OF LIENS

ALAMEDA COUNTY

Recorded	Amount
August 21, 1930—5406 PRINCETON St, Oakland. Charles Blome to James J and Rose Whitaker	\$49
August 21, 1930—1688 HUBBARD St Emeryville, Smith Lbr Co of Oakland to W J Biddle, Willard McMahon	\$110.04

BUILDING CONTRACTS

SAN MATEO COUNTY

STORE
SOUTH SAN FRANCISCO. All work for one-story brick store building.
Owner—Sam Price et al.
Architect—None.
Contractor—A J Tole, 124 Rice St., San Francisco.
Filed Aug. 23, '30. Dated Aug. 20, '30.
Floor laid 34
Roof on 34
Completed 34
Usual 35 days. 34
TOTAL COST, \$6543
Bond, \$2272.50. Sureties Kernan and McGray Robson. Limit, 90 working days. Forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded	Accepted
Aug. 18, 1930—LOT 34 BLK 27, Vista Grande. Rowe M Sherer to whom it may concern	Aug. 22, 1930
Aug. 19, 1930—PART LOT 21 BLK 1, Jefferson Acres, San Mateo. Alfred Brunell to whom it may concern	Aug. 15, 1930
Aug. 19, 1930—LOT 8, Hillsborough Oaks, San Mateo. P J Morahan to whom it may concern	August 15, 1930
Aug. 19, 1930—LOT 45 BLK 4, San Bruno Park. August Meurer to whom it may concern	July 22, '30
Aug. 19, 1930—LOT 44 BLK 4, San Bruno. Otto Lander to whom it may concern	July 22, 1930
Aug. 20, 1930—LOT 12 BLK 34, Lyon & Hoag Sub., Burlingame. Enrico Musso to Martin Peterson	August 18, 1930
Aug. 20, 1930—LOT 46 BLK 4, Burlingame. G W Williams Co., Ltd, to whom it may concern	
Aug. 20, 1930—LOT 13, Woodstock in Hillsborough. G W Williams Co, Ltd to whom it may concern	
Aug. 20, 1930—LOT 9 BLK 2, Fairways of Emerald Lake. Andrew	

G Ghiotto to whom it may concern Aug. 20, 1930
 Aug. 20, 1930—NW CALIFORNIA & Peninsula Sts., Burlingame, Associated Oil Co to W H Ball August 13, 1930
 Aug. 21, 1930—LOT 15 BLK 12, Baywood, P Grove Pedersen to whom it may concern August 18, 1930
 Aug. 22, 1930—LOT 6 BLK 6, Edgewood Park, San Mateo, C C Pitchard to whom it may concern August 22, 1930
 Aug. 22, 1930—ONE-HALF ACRE, Runnymede, George E Stransky to whom it may concern August 16, 1930
 Aug. 23, 1930—LOT 29 BLK 13, Redwood Highlands, May Wilkoff to Robert Squires Aug. 22, 1930
 Aug. 23, 1930—LOT 8 BLK 1, Crocker Tract, San Mateo, C A Anderson to whom it may concern August 14, 1930

LIENS FILED

SAN MATEO COUNTY

Recorded	Amount
Aug. 18, 1930—PART LOT 6, East Greenwood, Coast Glass Co vs James C Somerville et al.	\$95.50
Aug. 19, 1930—PART LOT 6, East Greenwood, Thomas H Price Co vs James C Somerville et al.	\$93
Aug. 19, 1930—LOT 36 BLK B, Southern Hillside Unit No. 2, San Mateo, Scott & Co, Inc vs Paul Schmidt et al.	\$325
Aug. 20, 1930—NW LIVE OAK ST., San Mateo, Palo Alto Lumber Co vs J E Levy.	\$307.91
Aug. 21, 1930—LOT 1 BLK 1, Duncan Park, San Mateo, Progress Lumber Co vs Laverne A Booker.	\$270.90
Aug. 21, 1930—LOT 12 BLK 1, Duncan Park, San Mateo, Progress Lumber Co vs Laverne A Booker.	\$278.88
Aug. 21, 1930—LOT 2 BLK 1, Duncan Park, San Mateo, Progress Lumber Co vs Laverne A Booker.	\$256.76
Aug. 21, 1930—LOTS 1 AND 2 BLK 1, Duncan Park, San Mateo, Merner Lumber Co vs Laverne A Booker.	\$461.77 & \$462.08 respectively
Aug. 21, 1930—LOT 2 BLK 1, Duncan Park, San Mateo, Merner Lumber Co vs Laverne A Booker.	\$141.92
Aug. 21, 1930—PART LOT 56, Stanford Park, San Mateo, Merner Lumber Co vs Clementine B Gurnsey.	\$124.44
Aug. 21, 1930—PART LOT 6, Eagle Hill Addition, San Mateo, Merner Lumber Co vs H W Houghton.	\$201.50
Aug. 23, 1930—PART LOT 6, East Greenwood, Frank Grunert vs James Somerville et al.	\$205.60

RELEASE OF LIENS

SAN MATEO COUNTY

Recorded	Amount
Aug. 19, 1930—LOCATION NOT Given, F A Baker to Laurence McBride et al.	NOT

BUILDING PERMITS

PALO ALTO

RESIDENCE, \$1500; No. 475 Howard St., Palo Alto; owner, C. A. Davidson, 735 Homer St., Palo Alto; contractor, C. E. Finrell.
 RESIDENCE, \$1500; No. 463 Howard St., Palo Alto; owner, C. A. Davidson, 735 Homer St., Palo Alto; contractor, C. E. Finrell.
 RESIDENCE, frame and stucco, \$1500

No. 451 Howard St., Palo Alto; owner, C. A. Davidson, 735 Homer St., Palo Alto; contractor, C. E. Finrell.
 RESIDENCE, \$1500; No. 457 Howard St., Palo Alto; owner, C. A. Davidson, 735 Homer St., Palo Alto; contractor, C. E. Finrell.
 RESIDENCE, \$1500; No. 469 Howard St., Palo Alto; owner, C. A. Davidson, 735 Homer St., Palo Alto; contractor, C. E. Finrell.
 RESIDENCE, \$1500; No. 481 Howard St., Palo Alto; owner, C. A. Davidson, 735 Homer St., Palo Alto; contractor, C. E. Finrell.
 ALTERATIONS, Interior, \$700; 135 University Ave.; owner, W. C. Thoits, 257 University Ave., Palo Alto; architect, A. S. Heineman; contractor, A. S. Gough, 10 Washburn St., San Francisco.
 RESIDENCE, frame and stucco and garage, \$25,000; 1800 University Ave.; owner, Mrs. M. H. McCants; contractor, A. S. Gough, 10 Washburn St., San Francisco.
 RESIDENCE, frame and stucco, \$4,000; 2360 Emerson St.; owner, F. Kunz, 2202 Sacramento; contractor, Phillip G. Schmidt.

COMPLETION NOTICES

SANTA CLARA COUNTY

Recorded	Accepted
August 13, 1930—W THIRD of LOT 1 Blk 5 R 7 S Snow & Pettis Add, Mt View, Floyd Carroll to whom it may concern.	August 5, 1930
August 13, 1930—PTN LOT 14 Hills & Sampson Tract, The First Christian Assembly in San Jose to whom it may concern.	August 6, 1930
August 14, 1930—LOT 8 BLK 2, 11 R Fuller's Addn, Joe Raposa et al to whom it may concern.	August 13, 1930
August 14, 1930—SW LOCUST ST 43-46 NW Grant St, San Jose, Rose Picone et al to whom it may concern.	August 4, 1930
August 15, 1930—SE SAN JOSE AVE and comm cor for lots 5 and 6, Kennedy Addn, Los Gatos, A A Pastor to whom it may concern.	August 15, 1930
August 15, 1930—LOT 7 BLK 63, Resub of Seale Addn No 2, Palo Alto, Wilson J Caussey to whom it may concern.	August 14, 1930
August 15, 1930—LOT 36 Adams and Keller Tract, L C Rossi to whom it may concern.	August 13, 1930
August 16, 1930—LOTS 13 and 14, Blk 1, Pat Jose Tract, Marian Mariani to whom it may concern.	August 11, 1930
August 16, 1930—BET TIIIRD and Fourth Sts and San Fernando and San Antonio Sts, San Jose, L Lions & Sons Co to whom it may concern.	August 7, 1930

LIENS FILED

SANTA CLARA COUNTY

Recorded	Accepted
August 14, 1930—SUBDIV of Lot 101 San Martin Ranch No 3, Sterling Lumber Co vs S D Meysenburg, et al.	\$65.68
August 15, 1930—LOT 17 BLK 11, Evergreen Park D & S Lumber Co, Inc vs H L Page et al.	\$534.34
August 15, 1930—SW FULTON ST 50 SE Everett Ave SE 50 x SW 100, part Subdiv 10 Blk 48, Palo Alto, A Backlund vs Sigrid Stevenson.	\$130.50
August 16, 1930—LOT 48, Wabington Subdiv, C L Snyder Co vs T J Russo et al.	\$376.15
August 16, 1930—LOT 23 BLK 2, French Residence Park, C L Snyder Co vs F A Stough.	\$285.60
August 16, 1930—SW 51-20 FT of Lot 44, Schiele Subdiv No 2, M	

L. Loane Lbr Co vs H Allen Bartlett \$370.21
 August 18, 1930—S HALF of LOT 16 and N half of lot 17 blk 2, Cherry Land tract; also, S 10 ft of N half of lot 16 blk 2 Cherry Land tract Glenwood Lbr Co vs W W Kimball \$74.36

RELEASE OF LIENS

SANTA CLARA COUNTY

Recorded	Amount
August 13, 1930—LOT 3 BLK 11, Evergreen Park, Palo Alto Lbr Co to Frieda E Simmen	
August 15, 1930—8.735 ACRES on S McKee Road 670-70 ft NE 24th St, San Jose, San Jose Water Works to Frederick Chilveriel	

COMPLETION NOTICES

MONTEREY COUNTY

Recorded	Accepted
August 21, 1930—LOT 336, CLARK City, Monterey County, L E Johnson to Charles Jackson	August 12, 1930
August 13, 1930—LOTS 23, 24 & 25 Blk 9, Map of Villa Del Monte being Resubdivision of Live Oaks Park, Monterey, Robert G Light to whom it may concern	August 11, 1930
August 21, 1930—LOT No. 12 S F-Nest Addition, Monterey, J F Kraus to whom it may concern	August 16, 1930
August 22, 1930—LOT 2 BLK 5, Homestead Addition to Salinas City, John W Rice also known as John Rice to Fregulia & Hurt	August 22, 1930
August 22, 1930—N 100 FT, LOT 16 Blk 842, Homestead Addition to Salinas, J W Rice to Fergulla & Hurt	August 22, 1930
August 22, 1930—LOTS 15, 18, 19 & 20 Blk 99, Third Addition to Pacific Grove, Charles G Barnett to whom it may concern.	August 21, 1930
August 23, 1930—LOT 5 BLK 20 Riker & Jackson Survey, Monterey, Emily Benedetti to Robert E A Oakley	August 22, 1930
August 25, 1930—LOT K BLK 14, Map of Salinas City commonly known as Sherwood & Helman's Map, Salinas, King Lung Co to W E Greene	August 23, 1930

LIENS FILED

MONTEREY COUNTY

Recorded	Amount
August 21, 1930—LOT 1 BLK 3, Map of Homestead Addition to Salinas City Central Supply Co vs J Scarpa and M McGuire	\$52.50
August 22, 1930—ALL THAT CERTAIN real property situate in the Rancho Bolso Nueva Y Muro Cojo, Stirling Lumber Co vs J E Sparr, Ciripino and Lillian Jorge	\$292.15
August 25, 1930—LOT 1 BLK 91, Official Blk Book Map of City of Monterey, J C Warrington vs George E Miller and Wm T Lee	\$140.60

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded	Accepted
August 19, 1930—PTN LOTS 5 and 6 Blk 6, Almond Court Addn, Walnut Creek, Anker and Hansine Wedsted to whom it may concern	August 19, 1930
August 19, 1930—S 45 FT of N 35 ft of E 177.1 ft of Lot 7 Block 2,	

Pittsburg Home Acres. Frances Louise and Ralph T. Gaven to E. M. Brown..... August 14, 1930
August 21, 1930—PTN ARBITRARY Block 1, Pittsburg, Harry E. Brandon to whom it may concern..... July 22, 1930
August 21, 1930—EAST 30 ft. of Lot 7 and west 10 ft. of lot 8 in Blk 70, Original Survey, Martinez, Chas. A. Bailey to whom it may concern..... August 20, 1930
August 21, 1930—ON PREMISES occupied by Orinda Union School, Orinda, Orinda Un School Board to George A. Scott..... Aug. 19, 1930

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded Accepted
Aug. 20, 1930—LOT 20 and N ½ Lot 19 Blk 9, Richmond Traffic Center. Ernest W. and Vera A. Basham to J. B. Peppin and Carl Johnson..... August 18, 1930

BUILDING PERMITS

STOCKTON

RESIDENCE and garage, \$6000; No. 260 Fulton Ave., Stockton; owner, Sanford Sweet, 96 Euclid Ave., Stockton; contractor, Randolph & West, 405 Poplar St., Stockton.
REMODEL dwelling, \$1000; No. 1429 North Edison St., Stockton; owner, W. V. Fretheway, Premises
RESIDENCE and garage, \$5500; No. 160 Knowles Way, Stockton; owner, George Sherrick, 2412 Alilton Way, Stockton; contractor, F. R. Zinck, 2034 N. Pacific Ave., Stockton

BUILDING PERMITS

SONOMA COUNTY

Recorded Accepted
Aug. 18, 1930—LOT 11 BLK 20, Map 3, Summer Home Park. Wm. Quinn to W. F. Putnam. July 21, 1930
July 19, 1930—LOT 20 BLK R, Del Rio Woods Subd No. 1. Mary L. Shortall to E. A. Auloff..... Aug. 18, 1930

LIENS FILED

SAN JOAQUIN COUNTY

Recorded Amount
Aug. 23, 1930—PORTION SEC 25, T 2 N R 7 E, Stockton. Fisher Bros Lumber & Mill Co vs Morenosuke Hayashi and C. Masuada..... \$589.97

BUILDING PERMITS

SACRAMENTO

ROOF sign, \$2000; No. 726 K St., Sacramento; owner, Zukors, Prem; contractor, Sterling Electrical Co., 907 8th St., Sacramento.
RESIDENCE, 4-room, \$3000; No. 3533 33rd St., being Lot 27 Benjamin Tract, Sacramento; owner, C. H. Moore, 2918 35th St., Sacramento; contractor, B. H. Hill.
BUILDING, frame, \$1850; No. 1318 45th St., Sacramento; owner, J. R. Kruse; contractor, Campbell Constr. Co., 800 R St., Sacramento.
RESIDENCE, 6-room, No. 411 34th St., being Lot 43, Harding Place, Sacramento; owner, A. R. Greeman, 4041 11th Ave., Sacramento; contractor, A. R. Greeman.
RESIDENCE, 6-room, \$4500; No. 3081 Tenth Ave., being Lot 9, Elliott & Huston Subd., Sacramento;

owner, Fred Deiser, 3240 Donner Way, Sacramento; contractor, Henry Schmidt, 4007 H St., Sacramento.

RESIDENCE, 6-room, \$5800; No. 4900 H St., being Lot 44 W. & K. Tet 34, Sacramento; owner and contractor, Col. C. H. Thompson Carmichael.

RESIDENCE, 6-room, \$5100; 872 33rd St. on lot 906 Addn B East Sacramento; owner, Mrs. F. S. Bayer.

COMPLETION NOTICES

SACRAMENTO COUNTY

Recorded Accepted
August 22, 1930 — LOT 185, New Era Park, Sacramento. Sam Guideva to whom it may concern..... August 20, 1930
August 22, 1930—LOT 202 Plat of Resub of Lots 110, 111 and 112, Monte Vista, Rodney Irvin Blake and Oliva M. Blake..... Aug. 9, 1930
August 20, 1930—W LOT 3 P Q 16-17, Charles Mackrell to whom it may concern..... August 19, 1930

BUILDING PERMITS

FRESNO COUNTY

ALTERATIONS & additions, \$33,000; No. 1801 Mariposa St., Fresno; owner, Pacific Grayhound Lines, Inc.; contractor, Wieland Bros., McHenry Road, Modesto.
DWELLING, \$5000; 1497 San Pablo Ave.; owner, Wm. J. Bardorf, 411 Yale Ave., Fresno; contractor, P. A. Wolfe.
RDELLING and garage, \$3000; No. 1475 Poplar Ave., Fresno; owner, Annie Lehman, 371 N-First St., Fresno; contractor, Valley Constr. Co.
ALTERATIONS and additions, \$1500; 2948 E Tulare St.; owner, J. L. Johnson.

LIENS FILED

FRESNO COUNTY

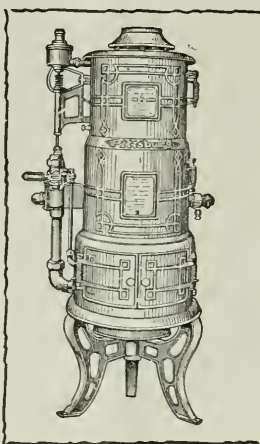
Recorded Amount
August 22, 1930—N ¼ OF NW ¼ of Sec. 6, 17-22, Fresno. A. W. Wright & Son vs J. H. Nelson.....\$118
August 20, 1930—LOTS 11 and 12 and E 10 ft Lot 10 Blk 1, Kennmare Park, Fresno. C. F. Welch vs Olive G. Thomas, et al.....\$134

WESTEEL PRODUCTS ORGANIZED BY A. J. SWANSON

Arthur J. Swanson announces formation of the Westeel Products Company with main offices in the Rialto Building, San Francisco. Sales branches are to be established in Los Angeles and Seattle.

The Westeel Products Company will serve eastern manufacturers of building products as western branch and factory distributors. Among the manufacturers which the company now represents on the west coast are the Knapp Brothers Manufacturing Company of Chicago, makers of interior sanitary metal trim; the Northwest Steel Products Company of Chicago, manufacturers of steel shelving, lockers and Nemo expanded steel baskets and the Receivador Sales Company of Grand Rapids, makers of "The Automatic Servant."

Swanson, for eleven years was connected with the North Western Expanded Metal Company of Chicago and for two years served as general manager for that company. He left that concern when it was acquired by the United States Gypsum Company. Prior to being in Chicago, Swanson was district manager for the North Western Expanded Metal Company in the western states for five years, with headquarters in Los Angeles.



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BUILDING *and* ENGINEERING NEWS

Publication Office
547 Mission Street

SAN FRANCISCO, CALIF., SEPTEMBER 6, 1930

Published Every Saturday
Thirtieth Year, No. 36.



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Record Partnership Agreements, Warning of State Registrar

Dresser drawers, the family clock or the mantel in the front room at home are not official or legal depositories for such important documents as partnership agreements in the construction industry. At least, not in California.

No matter how handy such receptacles may prove to the licensed contractor, the State law provides that such partnership agreement, particularly where a fictitious name is involved, must be filed with the clerk of the county in which the signatories reside, it is pointed out by James F. Collins, Director of the State Department of Professional and Vocational Standards and Registrar of Contractors.

Partnership agreements between persons engaged in the construction industry of the State, are not agreements if they are merely drawn up and signed by the parties involved and then tucked away somewhere at home or in the office, Collins said. They should be duly witnessed and filed with the proper authorities as a matter of official record.

Hearings conducted by the Section of Contractors' Registrations in matters involving complaints against contracting concerns doing business under partnership agreements has brought out the startling fact in several instances that no such agreement legally existed.

The partners involved had simply signed papers among themselves and put the documents away without recording them. Such a course, in at least one instance, completely altered the status of the case that was up for adjudication and resulted in a decision adverse to the contractors.

Many partnerships in the California building industry are operating under firm designations that do not show the true names of the persons in the partnerships. In all such cases, the Registrar pointed out, the law requires that the parties involved file a certificate with the county clerk, stating the name in full and the place of residence of all persons in such partnership and the firm name that has been adopted. In addition the text of such certificate must be published once a week for four weeks in a newspaper in the county. An affidavit showing that such notice has appeared in the newspaper must be filed with the county clerk within 30 days after the completion of such publication, Director Collins said.

A six-hour working day is advocated by A. F. Whitney of Cleveland, Ohio, president of the International Association of General Chairmen, Brotherhood of Railroad Trainmen, as the logical solution to the unemployment situation.

FACTORS OF ARCHITECTURE

In a campaign to acquaint the American public with the equities of architecture the Illinois Society of Architects has assembled a summary which it considers as embracing the seven potent factors of the architectural profession. These seven points are:

1—Natural Ability consisting of visualizing power; an aesthetic sense; mathematical understanding; judicial mind; qualities of leadership.

2—Integrity to select materials on the basis of scientific merit, artistic adaptability and relative cost, to render an impartial interpretation of plans and specifications; to form correct judgment between disputing contractors; to use unceasing vigilance to the end that the client receives everything due him, and at the same time, that the contractor and craftsmen are justly treated.

3—Educational background consisting of—training in social science; a working knowledge of the history of building down through the ages; training into an understanding of the strength and mechanics of materials; training in the art of design and depiction, including both draftsmanship and written word; travel and study of the masterpieces of architectural art.

4—Practical experience as: a student employee; a graduate office worker; and as a practicing Architect, including the handling of the business of building, with required incidental knowledge of contract and lien laws.

5—Working Library containing:—a indexed file of current architectural magazines; text books on structural and aesthetic subjects; many architectural books required for immediate use; an index of all the more important architectural books and where they can be consulted; a completely indexed catalog file of building materials and equipment.

6—Organized assistants, especially trained and equipped for each department of work required to be handled by an Architect.

7—Impersonal professional attitude toward each building problem; no financial interest, either in building materials or on contracting, makes possible skilled, unbiased judgment; Architect's remuneration not contingent on whether advice given pleases or displeases the client or the contractor—in other words, expert judgment expressed without personal interest.

An addenda to this declaration of principles is as follows:

Justice demands that investment be adequately remunerated. Is there any difference between investment in the training of talent than in the investment in mechanical equipment. It is not considered unreasonable to charge \$100 a day for the use of a \$20,000 excavating machine, yet \$20,000 is a

small estimate of the cost of adequately preparing an architect for service. Surely the services of an architect are of more actual economic value than the services of an excavating machine.

G. G. BRIDGE BONDS TO VOTERS IN NOVEMBER

Final arrangements to place a bond issue of \$55,000,000 before the voters for the construction of the Golden Gate bridge have been made by the bridge directors.

It was definitely decided to hold the bond election in conjunction with the general election, November 4, it being pointed out that a special election for the purpose would involve considerable expense.

A committee of five was appointed to handle details of the campaign to put the bonds across. It consists of William P. Filmer, president of the Golden Gate Bridge and Highway District; Alan McDonald, Francis Keestling, George Harlan and J. B. Strauss, chief engineer in charge of construction.

Strauss presented his final report illustrating the type of bridge, length of span and all the other details. This report was referred to a special committee for checking as to accuracy on all points and will be released to the public tomorrow morning.

Directors of the district authorized payment of \$30,000 in fees to Strauss, \$15,000 of which will go to his associates.

An information bureau for the bond campaign has been established on the mezzanine floor of the de Young building, San Francisco.

S. F. BUILDING IN AUGUST TOTALS \$1,242,128

Building permits issued by the San Francisco Department of Public Works, Bureau of Building Inspection, during the month of August totaled 569 for improvements involving an expenditure of \$1,242,128. For the corresponding period in 1929, records of the department show 629 permits granted for improvements costing \$3,095,638.

For the past eight months 464 permits were granted, the work involved costing \$14,877,893 as compared with 426 permits for the corresponding period in 1929 when the total registered \$25,289,980.

Following is a segregated listing of the August, 1930, activities

Class	No. of Permits	Est. Cost
A	—	\$ —
B	1	92,000
C	2	203,200
Frames	164	30,000
Alterations	104	926,878
TOTAL	569	\$1,242,128

BUILDING INSPECTORS ARE OVERWORKED AND UNDERPAID

The little appreciated but enormous responsibility of the building department official and the value of his work to the public at large was the subject discussed by Walter C. Voss, professor of building construction, Massachusetts Institute of Technology, in one of the principal papers delivered at the 18th annual conference of the New England Building Officials in Boston.

Prof. Voss spoke not only of handicaps under which building officials work but also emphasized that they are seriously underpaid. As an illustration of the much higher remuneration of those employed by private individuals than that received by public officials he said:

"Recently a group of men, interested and informed owners, architects, engineers and contractors, planned and consummated the erection of a \$2,000,000 office building. They needed inspection to insure careful justification of all expenditures, so they hired an inspector—the general superintendent—at \$10,000 a year. This building was continuously under the eye of this able man without any diverting influence. His job was one building, well built, on time. This building was completed in about sixteen months, at a cost of \$13,333 for superintendence—or inspection—about six-tenths of one per cent of the total cost of the building.

"This particular building was in a district assigned to a building department inspector who had during the time this one building was erected the inspection of 881 building operations, including fifteen major building projects, involving the expenditure of \$11,692,941. His salary for the sixteen months was \$3466, or only three-hundredths of one per cent of the total cost of major construction over which he was obliged to keep a protective eye.

"The first man was expected to protect interests of, let us say, about fifty people. The second man, a public employee, was expected to protect the interests of 800,000 people, or approximately 150,000 taxpayers. The first man spent his entire time on one building, while the second man could not possibly spend more than 5 per cent of his time on the same building.

Over-Emphasis on Low First Cost

In his analysis of some of the difficulties encountered by the building official in conducting his work and in providing for efficient administration of his department, the professor stated:

"This department, with its efficiency depends entirely upon public fancy and whim. An interested and informed public may make the department unusually effective, whereas disinterestedness and ulterior motive may practically void all of its effectiveness. The public is infected with a first-cost-economy complex. Their by-word is 'run everything as cheaply as possible' and, I might add, 'never mind about results.' The public looks at its tax rate first; it always orders its 'meal' from the right-hand side of the menu.

"Subsequent bills for an 'upset stomach' are not reckoned in the order. But should they not be? On the contrary, our first interested group orders its 'meal' with particular attention, first, to their 'stomach,' and later they consider their 'pocketbook.' Experience has taught them this valuable lesson in proper adjustment of cost and results. The public is con-

tent to 'howl' on tax rates for a while, fight the assessors for a possible cut in valuation and then is content to sit back and say, 'There's our donation; now don't bother me with anything until next year. When that time comes I'll try to cut it again.'

"Many attempts are regularly made by the constituted authorities of the public—their selected representatives—to show what becomes of this money, how meager it is to do a satisfactory job with—but to no avail. The is hurt, amused or must pay.

"It is your duty as members of the New England Building Officials Conference to strive for an enlightened public opinion of this matter. You should bend every energy and avail yourself of every opportunity to acquaint the public with the hazards and peril personally to all of our civilly elected officers to forget—gradually at least—the old dollar sign of first cost and to put their building departments on a sound, safe and effective basis

by gradually increased forces of able inspectors, who are paid a salary somewhat commensurate with the responsibility they are forced by the public and its officials to assume.

"The public will fight its increased tax rate and then soon forget the added initial expense, with experience in lower annual waste charges and damages.

In closing, I would say that no man who is not worth at least \$80 to \$100 a week should grace the profession of building inspector. I would further recommend that the total expenditure for building department construction inspection should not be budgeted at less than one-quarter of one per cent of the bona fide annual building permit values.

"Inspectors of building departments carrying their great responsibilities should not be confused with nor expected to be paid on the same basis as inspectors of other municipal departments whose responsibilities are only a fraction of that of the building department official."

MINUTE DATA ON THE BOULDER DAM—\$165,000,000 PROJECT

Due to the number of requests received daily at the office of Pacific Builder for data on the \$165,000,000 Boulder Dam Project, the following information is published in connection with that project, as officially issued by the Secretary of the Interior:

The construction of the Boulder Dam in Black Canyon where the Colorado River forms the boundary between the States of Arizona and Nevada. The construction will raise the present water surface of the river 582 feet. The dam site is about 30 miles southeast of Las Vegas, Nevada, a town with a present population of about 5,200, located on the Los Angeles and Salt Lake line of the Union Pacific System. The dam will be over 700 feet in height, the highest ever constructed, and will create a reservoir with a capacity of 30,500,000 acre-feet. It will serve to impound the surplus flood waters of the Colorado River for use in irrigation and will also regulate the flow of the river so as to improve navigation, and protect the lands in the valleys adjacent to the river below the dam and in the Imperial Valley in California, from overflow, water shortage, and silt accumulation, which are at present a great menace to successful agriculture.

The lake formed by the dam will be about 115 miles in length and have an area of 145,000 acres—the largest artificial reservoir in the world.

The development of about 1,200,000 horsepower hydroelectric energy at the dam, with 12 units of 100,000 horsepower each, which will make 663,000 firm or constant horsepower available at all times. The United States will construct the dam, outlet works, pressure tunnels, penstocks, power plant building and furnish and install generating, transforming and high-voltage switching equipment for the lessees and to the various purchasers. Rates of payment for energy have been fixed at 1.63 mills per kilowatt-hour for firm energy and ½ mill per kilowatt-hour for secondary en-

ergy. In addition, the contractors must pay for the power machinery and construct the necessary transmission lines.

The construction of an All-American Canal from Laguna Dam, or other suitable diversion dam, to connect with the present irrigation distribution system in the Imperial Valley in southern California, a distance of about 75 miles, and an extension to the adjacent Coachella Valley. Preliminary surveys and other studies have just been completed under a cooperative agreement with the Imperial and Coachella Valley irrigation districts, and the report is now being prepared. Present plans contemplate a maximum canal capacity of 15,000 second-feet. (Note: The Laguna Dam is already constructed and is located on the Colorado River about 9 miles northeast of Yuma, Arizona.)

It is expected that it will take seven years to complete the dam from the time construction is begun. It is proposed to install units of the power plant progressively as rapidly as demand for power develops.

Preliminary requirements having been met, Congress has made an initial appropriation of \$10,660,000 to provide for the first year's operations. It is proposed to spend this amount for the following purposes: (1) Construction of 3 miles of highway from a point 2 miles back of the river to the top of the cliffs, at the cost of \$300,000; (2) laying out the Government townsite and installing water and sewerage systems at a cost of \$100,000, and erecting an administration building for officers and living quarters for Government employees, both to cost \$125,000; (3) construction of 30-mile railroad from the Union Pacific to the dam site and the railroad down to the bottom of the canyon, estimated to cost \$2,500,000; (4) power for construction purposes which must be brought in from an outside power line, or a temporary power plant estimated to cost \$1,750,000 must be built; (5) an initial appropriation of \$5,000,000 for beginning construction work on the diversion

tunnels is included; (6) purchase of certain private properties in the reservoir site estimated to cost about \$500,000; and (7) to reimburse the reclamation fund for the amount expended to date on preliminary investigations the sum of \$385,000 is required.

It will take considerable time for flow tests and investigations, technical studies, preparation of designs and specifications and the issuance of advertisements, so that it will be nearly a year before contract can be let for construction of the dam. It is necessary to emphasize this in order to correct the general impression which seems to prevail that a large construction force is to be organized at once.

Field parties have been organized to stake out a final location for the construction railroad. Specifications will be prepared and contracts let at an early date. A permanent highway from the townsite to the dam site will be located and bids asked for its construction. The engineering forces in the Denver and Las Vegas offices will be built up from Civil Service eligible lists. Advertisements will be placed for purchase of power for construction purposes. If satisfactory bids are obtained, contracts will be awarded and construction of transmission lines begun by the contractor. If satisfactory bids are not received, a temporary power plant will be built near the dam site. The townsite will be laid out and contracts let for waterworks, sewer system, sidewalks and curbs, street surfacing, and buildings.

Following the present policy of the Department of the Interior, it is expected that all construction will be done by contract, in which event by far the largest number of men engaged on the work will be employed directly by the construction contractors, including practically all those in positions such as laborer, helper, cook, steward, skilled mechanic, storehouse-men, timekeeper, costkeeper, truck driver, foreman, construction superintendent, etc.

If done by contract, the contractors, and not the United States will purchase and furnish all construction equipment required on the work.

Materials required, such as cement, lumber (except form lumber), reinforcing steel, etc., and permanent operating equipment such as pipe, outlet gates, valves, etc., will be purchased by the United States, after appropriate advertisement.

Plans are being made for a town above the flow line of the reservoir for the housing of the workmen who will construct Boulder Dam and incidental works, and of their families and the normal industries necessary to their comfortable existence; within its borders will be the Government camp, and houses for the accommodation of Government employees and their families. The town will be located on Government land, and it is being planned as a permanent community. With the workmen and their families and those who are drawn to the dam site by the general activity, it is estimated that this town may have a population of some 4,000 people.

An office of this bureau has been established in Las Vegas, Nevada, in charge of a Construction Engineer. Communications regarding this project should be addressed to the Commissioner, Bureau of Reclamation, Washington, D. C., the Chief Engineer, Bureau of Reclamation, Wilda Building, Denver, Colorado, or the Construction Engineer, Bureau of Reclamation, Las Vegas, Nevada, but it is again emphasized that it will be a year or more before the major contracts can be let for the construction of the dam and appurtenant works.

STATE BUILDERS' EXCHANGE RE-ELECTS OFFICERS AT MEET

BY JOE OOGERS

Apprenticeship, license laws, building finance and re-election of the incumbent officers to serve for another six-month period, were features of the semi-annual conference of the California State Builders' Exchange, held in Richmond last Saturday.

More than fifty-five delegates representing every section of the state attended the conference, presided over by P. M. Sanford of Richmond, president of the state organization.

H. L. Sweeney of Santa Barbara, the principal speaker at the morning session, delivered a forceful address on the training of apprentices in the building industry. Sweeney scored the system of training in the public schools, declaring that in many instances the instructors were not properly prepared for the work of teaching the various crafts of the building trades.

W. H. George, president of the National Association of Builders' Exchanges and president of the San Francisco Builders' Exchange, declared that the tendency of banks and loan concerns was to discourage building. He stated that after investigation he learned that this was because they were afraid to loan money on buildings not built for permanency. George advocated that a special inspector be employed for all large buildings. With such an inspection, George declared, first class workmanship and good materials would tend to ease the money

market with regard to building loans.

George based of Pasadena, spoke in the proposed plan to secure legal regulation of building finance in California. A contest is now underway, formally announced, whereby students, either graduate or undergraduate, actively engaged in the study of law at recognized colleges of law within the state, are offered \$350 in prizes for the best plan on "How to Regulate Building Finance in California." The first prize is \$200, the second \$100, and the third \$50. Out of the papers submitted it is hoped to frame a law for presentation at the next session of the State Legislature.

H. C. Morgan, chief deputy of the State Department of Professional and Vocational Standards, representing State Director Collins, told of the benefits of the contractors' license law and what his department was accomplishing for the good of the construction industry and the building public.

Other speakers included S. P. Koch, Berkeley building inspector, "Duke" Tilden of the Tilden Lumber Company, Jas. Pinkerton of San Francisco, Dan Wagner of Santa Barbara and D. L. Dawson of San Jose.

The convention closed with a banquet at the Hotel Carquinez where a program of entertainment was enjoyed. Community singing was lead by Archie Winchelo of the Richmond Builders' Exchange.

ARCHITECTS TO CONVENE AT DEL MONTE NEXT MONTH

Interesting business sessions coupled with a golf tournament, a visit to notable residences on the Monterey Peninsula and a program of varied entertainment, will be features of the Third Annual Convention of the State Association of California Architects to be held at Del Monte, October 10-11, it is announced by Harris C. Allee, general chairman of the convention committee.

Sessions will be held at the Hotel Del Monte, where special reservations have been made and special rates have been obtained by the convention committee.

The Friday morning session will be called to order by John J. Donovan of Oakland, chairman, following which delegates will be registered and the business session opened with reports of the officers.

At the noon luncheon, to be presided over by Frederick H. Meyer of San Francisco, Newton B. Drury will address the architects on the "Legitimate Group and Individual Publicity." This address will be followed by a round table discussion.

At the Friday afternoon session, presided over by Mr. Donovan, the reports of various committees will be considered. During this session ladies will be entertained with trip over the 17-Mile Drive, one of the wonders of the Monterey shore line.

In the evening the annual convention banquet will be held. H. C. Chambers of Los Angeles will preside. "Co-operation" will be the topic of discussion. A twenty-minute address will be made by a guest speaker yet to be announced.

Five-minute talks on "Co-operation" will be made as follows:

"Co-operation With Allied Arts," by C. M. Winslow of Los Angeles.

"Co-operation With Clients," by H. Roy Kelley of Los Angeles.

"Co-operation With Contractors," by Louis J. Gill of San Diego.

"Co-operation With Other Architects," by Chas. F. B. Roeth of Oakland.

"Co-operation With Architectural Education," by Warren C. Perry of San Francisco.

"Co-operation With Public Authorities," by Jas. Dean of Sacramento.

These talks will be followed by a musical program and solos by Eva Gruninger Atkinson, contralto; Phyllida Ashley, pianist, and Austin W. Sperry, baritone.

The Saturday morning session will be called to order by A. M. Edman of Los Angeles. This session will be devoted to round table discussions followed by an illustrated talk on "Gardens" by Myron Hunt of Los Angeles.

Immediately following this the golf tournament will be opened. A Putting Contest for the ladies will be a feature of this event.

In the afternoon the delegates and ladies will visit notable Pebble Beach residences.

A Golf Dinner will be featured in the evening, at which time the tournament prizes will be presented to the winners. A varied program of entertainment will be featured during the dinner.

THE OBSERVER

What He Hears and Sees on His Rounds

"The continued recession in building construction volume can be considered a heavy silver lining in the clouds which now hang over the industry."

This is the optimistic view one writer expresses in regard to the building industry, says the monthly digest of the Common Brick Manufacturers' Association of America. The writer points out that construction can be postponed but not avoided.

"The population of this country is increasing at the rate of 7,000 per day and they must be housed. Buildings continue to burn down and depreciation is exacting its toll constantly."

"When the unfavorable conditions surrounding the building industry today are remedied, there is bound to be a sharp increase to provide buildings which were postponed during 1929 and 1930."

"Another noted business authority, whose forecasts are considered to be unusually accurate, explains that in times of depression such as we are now witnessing, the chart of building volume is in the shape of a 'U'."

"He further points out, when conditions seem to reach a level, getting no better or worse, the bottom has been reached, so to speak, and an upward trend is bound to follow."

"Conditions in the building industry indicate most convincingly that the leveling-out period, representing the bottom of the 'U,' has existed for a number of months, and an upward trend may be expected very shortly."

"Conditions in the brick industry bear out this statement very closely. The volume of brick moved from the yards has been fairly constant for the past few months, with seasonal declines not as pronounced as in normal periods."

An employment service to take care of its trained workers, covering the entire country, has been put into operation by the cement industry. It is announced in Chicago by the Portland Cement Association.

This is believed by its sponsors to be the first attempt of a major manufacturing group to cooperate in solving its employment problems and to establish a clearing house for the services of its skilled employees.

The cement industry employs approximately 45,000 workers and is composed of 95 individual companies with 175 mills in 35 states. Most of these companies are members of the Portland Cement Association and are supporting the industry's employment program.

The United States Daily recently published a report that the building of new hotels in Switzerland is to be forbidden in all cities under 100,000 population until December 31, 1933. This law is an extension of the law of October 16, 1924, put in effect by the Swiss Federal Council. There are only four cities in the country, namely, Zurich, Basel, Geneva and Berne, with more than 100,000 population, so the law will affect chiefly the large tourist resorts where many of the finest hotels are located. "This measure is interesting to hotelmen of this country who could well wish for similar recognition and action by our government," says The Pacific Coast Hotel Weekly. "There is less concern with overproduction now, that is, for

the immediate future. There has been a definite check on the rampant construction of structures designed to be hotels, or something like hotels, but there is still the problem of filling existing hotels."

Under a reorganization of the engineering colleges of the University of California, the interests of civil, electrical and mechanical engineering will be administered by the faculty of a college of engineering of which Prof. Charles Derleth, Jr., has been appointed dean. The college of engineering will conduct four-year curricula separately in civil, electrical and mechanical engineering, each leading to the B. S. degree.

By administering these engineering groups by one faculty, with one dean, it is intended to offer to students the option to remain more than four years, thereby combining to a fuller degree simultaneous studies in civil, electrical and mechanical sciences. In this way students may remain five years or even six years, receiving the B. S. degree in a combination of engineering subjects.

Artists have taken another move to make themselves part of the business, says The Business Week. A uniform contract has been drawn up by representatives of the American Artists' Professional League and the American Art Dealers' Association. Besides stipulating the terms between exhibitors and artists, the new contract provides definite terms of sale, insurance, service, and charges.

Increase in electrical appliance sales is more than compensating electric light and power companies for the slowing up in the number of homes wired for electricity.

It is estimated that each electric refrigerator sold is equal in revenue to one new wired house. This year, while the number of homes wired is expected to drop to 800,000 from the 1929 figure of 880,000, electric refrigerator sales will reach 900,000, as against 630,000 in 1929. This means that, as far as revenue is concerned, there will be the equivalent of 1,700,000 homes wired—a figure about equal to that of 1924 which saw the largest growth in number of wired homes ever recorded by the industry.

Utility officials, told of these facts through an analysis by Electrical Merchandising, say they indicate clearly that intensive rather than extensive cultivation of the market is the answer to the slower increase in wired homes to which some economists have recently pointed a warning finger.

Grade crossing accidents and casualties show a reduction during the first six months of 1930, as compared with the first half of 1929, according to a report compiled by the Transportation Division of the Engineering Department of the State Railroad Commission.

There were 1398 accidents reported to the Railroad Commission during the first half of 1930, compared with 1425 during the same period of 1929, a decrease of 27 or 2 per cent. There were 99 deaths and 461 injuries in the first half of 1929, a decrease of 13 casualties or 3 per cent.

Based on the results during the first half of the year, 1930 will be the first period to show a decrease, compared to a preceding year, in the number of accident reports filed with the Commission. In 1929, there was an increase of 32 per cent in the number of accidents reported, compared with the year 1928, and an increase of 28 per cent in the number of casualties reported.

Of the 1398 accidents during the first six months of 1930, there were 1238 at so-called Class "A" crossings of public highways with main and branch lines of the railroad; 69 occurred at spur track crossings; 35 at private crossings; 53 in and along public streets between crossings; and two were minor accidents occurring at grade separations.

The American Radiator Company is launching a new accessory on the market. It is called the Radiatherm, and is a simple thermostatic device for automatically and individually controlling the steam supply to each radiator on two-pipe systems.

This new device effects independent and automatic temperature control for each room. As long as an adequate heating system is in operation, individual room warmth is uniformly maintained at whatever temperature desired. Thus, if the occupant of one room wishes to maintain a temperature of 80°, and the occupant of another room prefers 70°, both get that temperature automatically with the Radiatherm. In fact the Radiatherm does, automatically, exactly what would occur if an operator were continually watching a thermometer and opening and closing a graduated type of hand control valve to maintain a constant room temperature.

It is claimed by the American Radiator Company that Arco Radiatherm makes possible economy in fuel to the extent of 20% to 40%, as compared with systems employing hand-operated valves, because it maintains the temperature at predetermined constant regardless of changes in pressure or outside temperature. The radiation of a building naturally is figure to take care of the coldest winter weather. Given ample steam supply, it is easy to heat satisfactorily during the relatively few days of the year when the full capacity of the radiator is required. The difficult part to handle, however, is during the greater portion of the heating season when the weather is mild and when overheating is so objectionable and wasteful. During this period only a very small portion of the radiator is required to hold the temperature at about 70°—which is usually desired. The Radiatherm sees to it that only that much of the radiator is heated, and so saves a great amount of fuel.

The Arco Radiatherm was ready to be placed on the market a year ago, but the American Radiator Company preferred to put the device through a vast number of tests both at their Detroit and Yonkers Laboratories, to make certain that the apparatus was trouble-free. To test their performance under actual conditions the American Radiator Company installed five hundred Radiatherms in their own executive building in New York last winter. After a season of service, these controls have proved so successful that the tenants would strenuously object to returning to hand-controlled valves. American Radiator executives admit that in a very short time hand valves will be discarded in favor of efficient, comfort-assuring, fuel-saving Radiatherms, and that building owners will use this feature of automatic control as an argument in renting space.

It has been estimated that Arco Radiatherms will pay for themselves in two or three seasons of service, through the fuel they save.

ALONG THE LINE

According to word from Portland, Ore., Ernest H. Meyer, 50, president of the Charles R. McCormick Lumber Company in Oregon, who recently suffered a paralytic stroke, is in a comatose condition in a Portland hospital. His condition was precarious, attendants at the hospital announced.

Jonh S. Oursler has resigned as vice-president of the Carnegie Steel Company, effective October 1st. Ill health is given as his reason for resigning.

More than \$2,600,000 in highway work was placed under contract in August and \$1,350,260 in contracts are pending and advertised. B. E. Meek, State Director of Public Works, reports. Meek declared it is the desire of the department to keep highway construction at the peak in order to help employment during the fall and winter months.

Frank S. Allen, 70, nationally known architect, died in Pasadena, August 26. Mr. Allen was known for his contributions to American museums of exhibits obtained in excavations in Egypt. In California during the past 40 years Allen designed many schools. He designed the San Jose State College, the San Diego High School, the San Pedro High School and many school buildings in Pasadena.

Henry Sidney Smith, 90, former Alameda County Surveyor, civil engineer and for years connected with the Piedmont city government, died August 25.

Smith served the Southern Pacific and other big companies as a civil engineer for many years. He was with the engineering corps of General Sherman in the Civil war. He was for years engineer for the Mountain View cemetery company.

Resignation of William G. Clyde as president of the Carnegie Steel Company, effective September 1, has been accepted by the board of directors. The board announces I. Lamont Hughes, vice-president in charge of operation of the United States Steel Corporation, would succeed Clyde. In resigning, Clyde said he had done so because of ill health. Ambrose N. Dietl, vice-president of the Carnegie Steel Company, will take Hughes' office with the steel corporation.

BUSINESS MUST MAINTAIN WAGE SCALES

Wages must be maintained through the present situation in American business, declared Herbert H. Lehman, Lieutenant Governor of New York, and former banker of New York City, before the annual convention in Buffalo of the New York State Federation of Labor.

"If there ever was a time for full cooperation between employer and worker this is the time," said Mr. Lehman. "Nothing will be gained by a reduction of wages."

Recalling that "leaders in industry some months ago solemnly pledged their word to maintain wages and working conditions," Mr. Lehman declared they "must go a long step further at this time. They must organize their industries against any program of wage cutting."

TRADE NOTES

The operations of the San Francisco branch of S. T. Johnson Co., manufacturer of oil burners and fuel oil, with headquarters office and factory in Oakland have recently been expanded to include the distribution of fuel oil. Heretofore oil burners only were handled from San Francisco. The payroll has been increased, and four oil trucks are now operated from the San Francisco branch which has recently been moved from 1337 Mission Street to 585 Potrero Avenue.

Ira W. Coburn, contractor and builder, formerly located in the Hearst Building, has moved to larger quarters at 2048 Market street. The removal to the new quarters was necessitated by the fact that Coburn desires to render a more complete service in the new location.

Herrick Iron Works has purchased a block of property extending from Seventeenth to Eighteenth streets between Campbell and Wood streets, adjoining the present plant in Oakland for future plant expansion.

Construction developments, company officials announce, will not be undertaken for about six months.

J. H. Baxter & Co., dealers in poles, piling, lumber and cross-tied material, announces the removal of offices on September 1, to larger quarters to 333 Montgomery street, San Francisco.

Notice of intention to sell has been filed with the county clerk at Santa Cruz by the Olympia Sand Company, a corporation. The sale will be made to the Atlas Olympia Co., Ltd., and will include bunkers, bucket elevators, loaders, chutes, conveyors, and other apparatus and equipment at the sand pits at Zayante in Santa Cruz county. The sale will be consummated at the Stock Exchange Building, San Francisco, on September 8.

TO REGULATE MORTUARIES AT RENO

The city council of Reno, Nevada, has adopted an ordinance forbidding the opening of any mortuaries in Reno without the consent of 65 per cent of the property owners and residents in the affected block. Such consent must also be approved by the city council. The ordinance also prohibits the establishment of such places except in specified locations and under mandatory conditions.

Opponents of the ordinance asserted at the session of the council that the ordinance is drastic, practically prohibitive, and gives the two existing mortuaries a monopoly on the local undertaking business.

YOUNGSTOWN IRON PUDDLERS GIVEN PAY CUT

Iron puddlers working under the sliding wage scale of the Amalgamated Association of Iron, Steel and Tin Workers, will receive a reduction of several cents a ton, under the monthly settlement announced at Youngstown, Ohio, Aug. 30. The average price of bar iron was found to have been \$180 a hundred pounds during the July-August period as compared with \$190 in the May-June period, resulting in the reduction of wages from \$14.30 to \$10.60 a ton.

TRADE LITERATURE

Earth-moving, road-maintenance and snow-removal equipment for use with tractor power is described and illustrated in a 32-page general catalog, No. 280, issued by the Hiker Mfg. Co., Springfield, Ill.

Engineering data on bucket elevators of all types, bin gates, track hoppers and feeders, steel apron and pan conveyors, weigh larries, screw conveyors and other types of bulk material handling equipment are given in catalog 262 of the Chain Belt Co., Milwaukee, Wis.

In-Cel-Wood Is New Insulating Board Product

A new-comer in the insulating board field, In-Cel-Wood is now being introduced by the Cornell Wood Products Company of Chicago.

It is announced that "In-Cel-Wood" is made entirely of new wood fibre which has not been cooked or chemically digested, and which brings to the board all of the well-known insulating properties of wood, together with the long life which can be anticipated when the fibre is not chemically treated.

"In-Cel-Wood" is offered in the usual insulating board sizes and is a full one-half inch thick. "In-Cel-Wood Lath," for use as a plaster base, is also offered and is made with ship-lapped edges to reinforce the joints and to reduce heat leakage. The unusually high plaster bond of 240 pounds per square foot is claimed for In-Cel-Wood. It is also noteworthy that the board combines an unusually high strength with its light weight of only 600 pounds per M square foot and its low thermal conductivity of .32 B. T. U.

Another feature of the product is the appearance of the board. It is a light cream color, smooth on one side and lightly textured on the other. The board is recommended for interior work where no painting or other adornment is planned. This same soft surface, the manufacturers claim, makes the product an effective sound deadener.

BIDS ASKED ON BOULDER DAM POWER PROJECT

Bids will be considered by the U. S. Bureau of Reclamation at Denver, Colo., on September 29 to construct transmission lines and a power plant in the vicinity of Boulder Dam, for furnishing of power during the construction of the dam. Alternative proposals for the construction of one and two transmission lines will be received. Bids are to be accompanied by a \$50,000 guarantee. Performance bond in the sum of \$300,000 will be required.

HEARING POSTPONED

Hearing on the application of the city of Stockton for permission to construct a subway under the Southern Pacific and Western Pacific Railroad tracks in Charter Way, has been postponed by the State Railroad Commission from September 4 to December 2. The project, according to tentative estimates, will cost \$20,000, of which the railroads are to pay one-half and the city of Stockton the remaining half.

ENGINEERING SOCIETIES EMPLOYMENT SERVICE

Further information regarding positions listed in this column is obtainable from Newton D. Cook, Room 715, 57 Post Street, San Francisco. (Phone Sutter 1864)

R-3190-S SALES ENGINEER, graduate in civil engineering, not over 30 years old, to develop the sale of steel bars and building materials. Experience must be in construction or sales, preferably both. Apply by letter with details of experience, education, etc., including photo. Salary open. Location, Pacific Coast. Headquarters, San Francisco.

R-3202-S GENERAL DRAFTSMAN, not over 40 years, familiar with heating, ventilating, plumbing and electrical layouts. Must be able to write specifications. Salary \$220 mo. Permanent. Location, San Francisco.

R-3246-S RESEARCH CHEMIST, technical graduate with some experience in paint testing, for similar work in industrial laboratory. Salary \$175-\$200. Apply by letter with reference and photo. Location, S. F. K-312-W-1562-S SAFETY ENGINEER, technical graduate, mechanical or electrical. Should have had a varied engineering experience in industrial safety problems and understand the rating of risks for casualty insurance. Work will include many public relations. Salary \$7000 year. Apply only by letter. Location, New York, and some travelling.

R-3309-S ENGINEER, mechanical or electrical, not over 30 years, with 3 to 5 years' experience on hydro-electric plant operation for service and testing work. Must have mechanical skill, agreeable personality and be willing to travel. Salary about \$175 month and expenses in the field. Apply by letter. Headquarters, San Francisco.

R-3310-S STRUCTURAL STEEL DETAILER, neat and accurate, for temporary work. Salary \$175-\$200, depending on experience. Location, San Francisco.

W-1271-C-S DIRECTOR OR PERSONNEL for national concern. Will have entire charge of personnel throughout the United States, also employment, payrolls, insurance, pension systems, etc. Apply only by letter. Location, Middlewest.

PROFESSIONAL SELF-RESPECT

Contrasting with the events of the engineering competition which the city of Lima staged a few months ago comes the story of an attempt to conduct a similar competition at Phoenix. The city authorities invited the local engineers to bid on the engineering services for a sewer and sewage-disposal enterprise, but the engineers in this case took counsel with their self-respect and their professional ethics. The example of the Lima case having given a convincing picture of the immorality of such bidding, they declined to bid, but instead addressed the city council and set forth the unwisdom of attempting to engage engineering services by such a method. The representations bore fruit, we are glad to say, and the authorities selected engineers by direct choice. Evidently it is not impossible to lead city officials in the right direction if the proper methods are used and a firm attitude based on sound convictions is maintained by engineers. The Phoenix action will have emulation, as it deserves. In time, we may hope, the competitive-bidding evil may thus be eradicated.—(Engineering News-Record.)

USES AND CHARACTERISTICS OF MARBLES ARE TOLD BY U. S. BUREAU OF MINES IN CIRCULAR

Building and monumental marbles should have the quality of withstanding weathering and thus retaining their attractive appearance, the United States Bureau of Mines, Department of Commerce, points out. For exterior use qualities of endurance rank equally in importance with appearance. For such outdoor uses, therefore, marbles should be strong, uniform, close-grained (though not necessarily fine-grained), relatively nonabsorptive, and free from such impurities as may stain or corrode the surface. While uniformity in color was once desirable, the present tendency is toward blending of mixed colors.

For interior decoration, appearance is the prime factor determining the value of marble, say Dr. Oliver Bowles and D. M. Banks, in a report just published by the Bureau of Mines. Both pure white and variously colored marbles are used for this purpose. Interior marble is widely used for floors, steps, baseboards, columns, balusters, wall panels, wainscoting and arches. That used for floors and stair treads should be reasonably resistant to abrasion. Brecciated marbles, which consist of angular fragments cemented together in nature, are widely used for columns and wainscoting. Most marbles of this type are imported, as only a limited amount has been produced in the United States up to the present time. Verd antique is popular for interior work. Onyx marble is also popular for interior decorative use, as it possesses a waxlike appearance and an attractive banding. It also finds wide use for the manufacture of gear-shift balls, lamp and inkwell bases, and gift-shop novelties. Interior marble is also used in various minor ways, such as for table tops, lavatory fittings, and sanitary work generally.

Statuary marble is the most valuable variety quarried. It must be pure white in color, uniform and usually fine-grained in texture, somewhat translucent, and must possess a marked adaptability for carving. Numerous statuary and decorative marbles from American quarries are now on the market, each having its own particular name.

Waste Marble

Broken or waste marble is used for terrazzo, stucco, riprap, lime manufacture, and for fluxing and chemical uses.

The color of a marble is one of its most important physical properties. It is governed by the nature of the constituents. Marbles consisting of pure calcite or dolomite are white, whereas green is the prevailing color of verd antique, which consists chiefly of serpentine. However, it is sometimes mixed with red. Variations from the white color of a pure marble are owing to admixtures of foreign substances. Such impurities may be uniformly distributed and thus give uniform coloration, or they may be present in bands or streaks, giving clouded or otherwise nonuniform colors. Very beautiful banded effects are obtained by sawing veined marbles in certain directions.

The causes of some colors in marbles are easily determined. Black and grayish shades are attributed to carbonaceous matter, which is usually present as fine scales of graphite; red, pink, or reddish-brown shades are mainly due to the presence of manganese oxides or to hematite; yellow-brown, yellow, or cream colors are caused by minute grains of hydrous

oxide of iron, limonite. Other colors, such as the bluish tint found in some beds of white marble, are difficult to explain.

Highly colored marbles are usually those that have been brecciated or fractured, subsequent consolidation being accompanied by infiltration of coloring material from surrounding soil and rocks. They are mostly of foreign origin.

Compressive strength, transverse strength, and tensional or cohesive strength of marble depend largely upon uniformity of texture, closeness of grain, and amount of interlocking of crystals. Compressive strength is the quality most commonly tested.

Although strength alone is not a sure criterion of durability, knowledge of the capability of any stone to withstand stresses of various kinds is of great value if the material is to be used for purposes involving extraordinary strains. For certain purposes, such as bridge piers, abutments, columns, and base courses of very high masonry, crushing strength demands more than ordinary attention. Practically all commercial grades of sound white marbles are capable of sustaining many times the weight of structures in which they are ordinarily used, though some of the brecciated and veined marbles are too weak to sustain very heavy loads with perfect safety.

Interior Marble

capable of taking a high polish are most desirable for interior use; but many coarse-grained marbles are excellent for building and monumental purposes.

Workability is an important property, as the cost of quarrying and finishing marbles that are difficult to work is relatively high. Workability is governed partly by the hardness of individual grains and partly by the hardness of the mass as a whole. In some marbles the grains or crystals are easily torn apart, while in others that have interlocking crystals disruption is much more difficult. Thus, texture and cohesion have a definite relation to workability. If hard impurities are present, working may be very difficult. Although it may greatly increase the cost of working, hardness is a valuable property if the material is to be exposed to abrasion.

As marble is usually chosen for its inherent attractiveness, color is an important asset. If the texture or color of marble in a deposit varies, care should be taken to quarry in such manner as will tend to produce material that may be closely classified. Some variations in color, though slight may detract immensely from the market value. Lenses and bands of bluish material may pass irregularly through the white, thus occasioning excessive wear or necessitating classification in a lower grade.

Colors

Each bed in a deposit exhibits more or less constancy of color, some exhibiting more attractive colors than others. Therefore, desirable uniformity in color can usually be maintained by working each bed separately.

Colors may be permanent or may change after exposure to sunlight or weather. Severity of climate is an important factor in such changes. If changes take place the rock may no longer be of value; therefore, permanence of color is to be desired. The more highly colored marbles are most subject to color changes.

The success of a marble enterprise depends upon several important considerations quite distinct from the quality and extent of a deposit. A prospective marble producer should give careful consideration to market demands, prices, transportation facilities, competitive conditions, availability of labor, wage scale, and other economic questions, for which a reasonably satisfactory answer should be obtained before large sums of money are spent. Many enterprises have failed because these matters have not been fully studied.

Imported Marble

The important marble belts of the United States are found in the Appalachian region of the Eastern States and in the Rocky Mountains and Coast Ranges of the West. Deposits also occur in several of the Central States and in Alaska. In 1928 the principal States in order of production were: Vermont, Tennessee, Missouri, Georgia, Alabama, New York, and Massachusetts. These States together produced more than 95 per cent of the total for the year.

The principal countries from which marble was imported in order of value during 1928 were: Italy, France, Belgium, Germany, and Mexico. Imported marbles are used chiefly for interior decoration.

At least 80 per cent of the imports are from Italy and consist principally of white marble from the Carrara district. Imports from other countries are chiefly various types of colored marbles and the present tendency in imports is toward a larger proportion of the colored types. Red marbles from France, Spain, and Italy are imported into this country in considerable quantity. Monotone marbles, such as the Botticino from Italy and the Hauteville from France, are quite popular. Most of the marble obtained from Belgium is black. This is regarded as the standard black marble. The principal marbles imported from Germany are dark gray and white mottled and blotched with red. From Mexico has come almost the entire commercial supply of onyx marble or so-called Mexican onyx.

Marbles vary greatly in quality and therefore in price. The price range may run from \$1.50 to \$7, or even more, per cubic foot. American marbles for exterior building purposes average about \$2 per cubic foot in rough blocks. Prices of interior rough blocks at the quarry are quite variable ranging from \$2 to \$7, averaging about \$2.40 per cubic foot. Monumental stock in rough block averages about \$2 to \$3 per cubic foot, though not much domestic marble is sold in this form. Second quality Italian marble was selling in New York in 1929 at \$5.25 to \$5.75 per cubic foot, and French marble at \$3. Belgium black marble has sold in New York at about \$1.75 per cu. ft. in rough block form, though recently the price has been much higher.

Detailed information in regard to the physical properties of marble, the qualities affecting its workability and use, quarry methods and machinery, production, marketing, etc., is given in Information Circular 6313, which may be obtained from the United States Bureau of Mines, Department of Commerce, Washington, D. C.

HARRY PROBERT DEAD

Harry Probert, 56, treasurer and controller of the Calaveras Cement company and brother of Frank H. Probert, dean of the college of mining at the University of California, died in Berkeley August 28 after a prolonged period of illness.

He is survived by his widow, Minnie, three daughters, Mrs. Francis Westlund and Joan and Margaret Probert, two brothers and a sister.

TWENTY - FIVE CITIES REPORTING LARGEST VOLUME OF PERMITS FOR JULY, 1930, WITH COMPARISONS*

	July, 1930	July, 1929	July, 1928	June, 1930
1. New York	\$ 52,318,451	\$ 56,139,664	\$ 73,863,613	\$ 34,810,792
2. Chicago	8,033,350	14,151,000	29,013,900	4,419,490
3. Los Angeles	5,841,026	7,942,133	8,298,411	5,496,138
4. Milwaukee	4,984,689	4,940,179	2,718,369	2,065,261
5. Detroit	3,625,963	10,913,415	11,869,933	10,013,777
6. Cincinnati	3,318,615	2,301,150	3,193,309	2,388,995
7. Philadelphia	2,896,915	17,900,580	13,398,985	8,967,155
8. Boston	2,756,897	6,934,287	3,976,402	1,520,343
9. Baltimore	2,558,760	3,068,160	3,595,320	2,916,840
10. Washington	2,356,570	5,127,815	4,442,965	1,613,955
11. Kansas City	2,331,350	621,450	2,033,100	829,450
12. Providence	2,030,140	847,945	1,430,200	767,640
13. Houston	1,874,429	1,634,308	2,236,467	1,290,850
14. New Orleans	1,804,571	1,535,517	1,021,977	226,997
15. Worcester, Mass. ..	1,628,240	1,460,697	322,573	855,741
16. Pasadena, Calif.	1,591,514	515,964	636,866	1,261,534
17. Oklahoma City	1,588,340	2,558,175	1,185,675	1,572,441
18. Newark	1,445,741	2,996,392	2,439,995	1,382,246
19. St. Louis	1,408,999	2,631,867	6,781,731	2,107,466
20. Jersey City	1,317,557	1,005,881	867,621	177,829
21. Seattle	1,285,530	1,382,220	2,545,870	1,581,855
22. Dallas	1,314,702	1,164,940	877,892	664,875
23. St. Paul	1,308,546	815,311	665,257	3,437,536
24. Denver	1,251,550	913,600	1,223,150	805,800
25. Buffalo	1,164,400	2,472,435	2,746,049	982,919
	\$112,042,445	\$150,227,375	\$181,437,661	\$88,224,805

*Compiled by S. W. Straus & Company.

LIGHT STABLE LITHOPONE PROBLEM REPORTED SOLVED

Scientific tests of the light stability of lithopones, which long experience has demonstrated to be accurate in the highest degree, are described in a recent bulletin issued by the laboratory of The Grasseili Chemical Company, Newark, New Jersey.

The necessity for such tests is evident to those familiar with the fact that, as this technical bulletin points out, "Lithopone as first produced in the United States and for many years thereafter was a rather uncertain pigment." In fact, about its only characteristic which could be depended upon was its tendency to darken in sunlight, ranging from a dirty white to gray and even black.

Many master painters recall that they were summoned by indignant property owners to explain why the dazzling white of freshly painted structures had darkened to a deep gray under the action of sunlight, only to appear so immaculate when the sun had gone down.

The problem of light stable lithopone was solved, according to the Grasseili bulletin, "by research work which proved that the presence of chlorine in any of the raw materials used or the introduction of chlorine from any source to the raw pigment before calcination resulted in a lithopone which would darken in the sunlight."

That it was a long and discouraging task for the chemist to disentangle just why lithopone was so undependable from the standpoint of reaction to ultra-violet rays is evident from the statement: "Trial production of light resistant lithopone was started back in 1917-1918. These early efforts did not meet with success and a very considerable amount of chemical research was necessary to develop a well controlled and commercially practicable process."

There was, however, a recognized need for a raw material possessing certain valuable characteristics of lithopone, and paint manufacturers were persistent in their efforts to use

lithopone in view of the fact that the various objectionable properties were gradually being mastered by chemistry. But, in the early stages of its development, "a paint maker could never be sure whether a batch of paint made up from lithopone would have the expected consistency or whether it would liver. Also, the pigment frequently gave great difficulty in mixing with vehicles and binders," the bulletin relates. These difficulties have been overcome by improved chemical processes and advanced methods of manufacturing.

Quantity production of light stable lithopone is now an accomplished fact. Laboratory and service tests fully demonstrate that such lithopones are now entirely dependable, being stable enough to withstand exposure to sunlight for any length of time in any climate with no change in color. But there is no intention of claiming that lithopone will not undergo some degree of change in color when exposed under a powerful ultra-violet lamp for a prolonged period of time. Tendency to darken under ultra-violet light is somewhat dependent upon the vehicle used in making paint.

It was for the purpose of obtaining accurate data on light stability that the interesting tests were worked out by the Grasseili laboratory. "In case there is any question on the stability in sunlight," says the bulletin, "the most practical method of testing the pigment is to make it up in the vehicle or binder in which it is to be used and expose it under the conditions of use as nearly as they can be duplicated."

"The procedure in one of the tests is to expose the finished product containing lithopone to a mercury ultra-violet light in the laboratory and at the same time expose a standard under the same conditions. In the case of a paint, this is best done by preparing a panel, allowing it to dry before testing. If a particularly severe test is desired, the panel is placed un-

der water to a depth of about one-half inch. Under these conditions, the sample is exposed to ultra-violet light from a mercury arc placed about 12 inches above the panel. The relative darkening of the panel, as compared with the standard, is taken as a comparative measure of light stability.

Because of the rigid pre-testing of their products, leading manufacturers are being enabled to overcome not only the objections to lithopones which,

admittedly, once existed, but are fast overcoming the lingering prejudice in some quarters where unsatisfactory experience with the pigment resulted in reluctance to use of exterior paints containing lithopone. But now there is evident rapidly increasing interest in lithopone exterior paints, owing to the recognized fact that the brilliant whiteness of the pigment is retained under the most severe conditions of exposure.

BERKELEY REJECTS SCHOOL BOND ISSUE

For the third successive time, a Berkeley school bond proposal has gone down to defeat at the polls. The issue rejected at the last election was to provide \$2,690,000 to finance the erection of new schools and additions to standing school buildings.

POWER PROJECT AUTHORIZED BY FEDERAL BODY

The Federal Power Commission has authorized the California - Oregon Power Company to construct a 253,000-horsepower hydro-electric project on the Klamath River in Oregon. The first unit of the project is estimated to cost \$5,000,000 and construction will be started at once.

The commission has issued a preliminary permit to the Pacific Gas & Electric Company for the investigation of a prospective development of 34,000-horsepower on the Bear River, Calif. This project would supplement an extensive development now being constructed by the company on the Mokelumne river.

BYERS CLOSES PUDDLING OPERATIONS AT GIRARD

On August 15th A. M. Byers closed the Girard, Ohio, hand puddle mill, the largest single unit of hand puddle furnaces in the country.

Gradually the Byers Company has been consolidating its manufacturing of wrought-iron in the Pittsburgh district, anticipating the opening of the new mill recently completed on the Ohio River just outside Pittsburgh. This new mill will have an ultimate capacity of 45,000 tons a month compared with the Girard plant's of 5000 tons a month.

The Girard Plant was built in 1908 and in addition to 83 puddle furnaces and plate mill, included a blast furnace which was dismantled in 1929.

According to the United States Bureau of Standards, the wrought-iron produced by the Byers' new process has highly refined base iron and very uniform distribution of iron-silicate will be for some time to come, wrought-iron pipe, the new mill affords (slag).

Although the principal finished product of the Company is and probably fords facilities for producing plate and bar iron.

PAVING BIDS REJECTED.

The bid for the Oakland Paving Co., the lowest received by the Oakland city council to improve Marguerite street, was thrown out by that body when the bidder failed to sign an affidavit of "non-collusion," which affidavit states that the bidder has no private understandings with other contractors.

STRUCTURAL STEEL WELDING PROGRESS TOLD

A very comprehensive publication covering the progress in structural steel welding has been announced by the Westinghouse Electric and Manufacturing Company. The subjects treated in this 32-page booklet cover the strength of welded joints, design data, test and inspection data, building code, estimating costs, and bridge specifications. There are, in addition, numerous illustrations, a review of the progress made in structural arc welding, and a discussion of future and possible developments in welding. A copy of this publication, S. P. 1879, entitled Arc Welding of Structural Steel may be obtained from any district office of the Company or direct from the Advertising Department, East Pittsburgh, Pa.

PROSPERITY IS JUST AROUND THE CORNER, BANKERS PREDICT

"Good times," measured on the standard of reasonable returns to both labor and capital, will come back in October, American bank directors have predicted by a vote of 2 to 1, according to an analysis of the poll of bankers by Dr. Julius Klein, assistant secretary of the department of commerce.

The remaining third of the bankers polled, says Dr. Klein placed the return of "good times" at January 1. In any case, he declares, when "we do come out of it," the climb will be a healthier, more normal one than that after any previous depression. He believes that it may be two years before the country is back to the 1929 level, which he describes as "hysterical" and as a "speculative" prosperity rather than an "earned" one. "We will arrive at a brass tacks rather than a brass band era," he says.

Scraping Period About Up
"We have had eleven more or less drastic depressions in business in the last 40 years," continues Dr. Klein, "and the period of scraping along the bottom has varied from about eight months in 1917 to 25 months after the bump in 1912. The average duration has been 13 months and the average depression varied only a month or two one way or the other from that figure. In no case, even through the crash of last October and November, have the dark spots on the business 'weather maps' covered areas even remotely comparable with those of previous crashes such as those of 1907 and 1921."

Dr. Klein sees in country-wide statistics, even benefits from the stock market. At the time of the debacle

in 1929, there were but \$40,000 stockholders in six major corporations of the country, while today there are 1,110,000 bona fide owners of the same securities, which, he says, indicates purchase of, rather than speculating in standard securities. Investors, therefore, have been seeking earnings rather than profits.

Improved transportation, and the closer knitting of investors to capital through radio, telephone, airplane and other means of communication, will, upon the upturn, permit it to proceed much faster than in former periods of depression.

Better Business Due

Dr. Klein cites nearly a score of conditions that tend toward better business, once it reaches a sensible level. America's developments of synthetic products is named as one. Stabilization of foreign buying power is another. Europe still buys half of what America sells abroad. Others pertain to products which America is now selling more economically than foreign countries used to sell than here.

Modern devices, always changing, says Klein, had a depressing influence upon the automobile, but the automobile boomed the wearing apparel industry. Piano and organ manufacturers suffered, but radio interests became more valuable. Tobacco revenues were in the depths of depression, the highest known. Travel companies, especially steamship lines, went to new levels.

"As we reach the heights of a better atmosphere," says the assistant secretary, "we will have a far more lasting, substantial physique in the economic body of the nation than in the cream-puff age that has passed."

EAST BAY ARCHITECTS SEEK CIVIC CENTER FOR DEVELOPMENT FOR OAKLAND

A tentative plan for possible civic center development for Oakland in the area between Twelfth and Fourteenth Streets and east from the auditorium to Third Avenue, has been submitted to the Oakland city planning commission by the Society of Architects of Alameda county. The plan also covers the area south of the auditorium.

The plan, with maps and drawings, was accompanied by a letter from Geoffrey Bangs, secretary of the county association.

It presents a proposed civic center development under four headings:

1. Development of a group of public buildings around the auditorium.
2. Development of Peralta Park and the lands south of the auditorium to Fourth Street.
3. Development of the area between Fourth and First Streets for a future union passenger station with the grounds so laid out as to give arriving Oakland visitors the best impression of the city.
4. Development of a yacht harbor

in the estuary south of the auditorium.

The general plan includes the erection of a proposed Exposition building in the civic center and south of that a horticultural building.

In a letter that accompanied the proposed plan, the architects suggested that other cities generally are working along the line of a civic center plan, and that Oakland should fall in line and build with an eye to the future.

No estimate of cost accompanied the plan but it was suggested by the architects that in financing such a civic development, it is customary to "look to future generations."

The architects urged the formation of an agency to continue study along the lines proposed, looking to the development of a comprehensive civic center plan.

The proposal and letter were accepted for the planning commission by Chester R. Hunt, field engineer.

Building News Section

APARTMENTS

Plans Being Revised.
APARTMENTS Cost, \$200,000
BERKELEY, Alameda Co., Cal. Sacramento St. and University Ave. Three-story Class C brick apartments (56 2-, 3 and 4-room apts.)
 Owner—Davis-Pearce Co., Grant and Weber Sts., Stockton.
 Architect and Manager of Construction—Davis-Pearce Co., Grant and Weber Sts., Stockton.
 Architects will be taken subs shortly.

Working Drawings Being Prepared.
APARTMENTS Cost, \$150,000
OAKLAND, Alameda Co., Cal. Crescent Ave. near Santa Clara. Three-story frame and stucco apartments with Class C concrete garage.
 Owner and Builder—R. E. Mayer, 1129 McKinley St., Oakland.
 Architect—Douglas Stone, Great Western Power Bldg., Oakland.
 Bids will be taken in two weeks.

Sub Bids Being Taken.
APARTMENTS Cost, \$75,000
SAN FRANCISCO, Cal., NW Retiro Way and Casa Way. Three-story and basement frame and stucco apts. (15, 3, 4, and 5-room apts.)
 Owner and Builder—C. P. Murphy, 1475 Chestnut St.
 Plans by Lawrence Ebbets, 320 Fulton St.
 Elevators, steel sash, incinerator, etc.

Plans Being Figured.
 Bids Close Sept. 8, 10 A. M.
APARTMENTS Cost, \$12,000
SAN FRANCISCO. Sutter and Jones Streets.
 Alterations to 6th floor of apts.
 Owner—University of California, Berkeley.
 Architect—Eng. Dept. of Owner.

Preparing Working Drawings.
APARTMENTS Cost, \$250,000
SAN MATEO, San Mateo Co., Calif., Location Withheld.
 Six-story and basement class C steel frame, brick and concrete apts. (21 2-, 3-, 4-, 5-, 6-, 7- and 8-room apts.)
 Owner—Name Withheld.
 Architect—Willis Love, 354 Hobart St., Oakland.
 Bids will be called for at a later date.

Sub-Bids Being Taken.
APARTMENTS Cost, \$175,000
SAN FRANCISCO. Green St. near Octavia St.
 Six-story Class A steel frame and concrete apartments (112 rooms).
 Owner and Builder—F. L. Hansen, 282 Seventh St., San Francisco.
 Engineer—John C. Little & Co., 251 Kearny St., San Francisco.

Plans Being Completed.
APARTMENTS Cost, \$40,000
SAN MATEO. San Mateo Co., Cal. Bayview Heights.
 Two-story and basement frame and stucco apartments.
 Owner—E. I. Warren, Los Angeles
 Plans by Carl Schuetz, 1125 The Highway, Redwood City.
 Bids will be taken in one week.

Plans Being Completed.
APARTMENTS Cost, \$10,000
BELOMONT, San Mateo Co., Cal. Two-story and basement frame and stucco apartments.
 Owner—Mrs. Talbot.
 Plans by Carl Schuetz, 1125 The Highway, Redwood City.
 Bids will be taken in about one week.

PASO ROBLES, San Luis Obispo Co., Cal.—Wemberly Hodges, owner of the Cahill Block, recently destroyed by fire will reconstruct the building, the lower floor to be given over to stores and the upper floor for apartments. Approximately \$20,000 will be expended in the work.

Plans Being Prepared.
ALTERATIONS Cost, \$—
OAKLAND, Alameda Co., Cal. Madison and Lake Sts.
 Alterations and additions to one-story frame apts. (add porch, etc.)
 Owner—San Jose Bldg. & Loan Assn., 16th and San Pablo, Oakland.
 Architect—W. E. Schirmer, 700 21st St., Oakland.

Segregated Bids Being Taken.
APARTMENTS Cost, \$125,000
OAKLAND, Alameda Co., Calif. 764 Walker Avenue.
 Eight-story steel frame and brick apartments and garage (six-story apartments and two-story garage; 36 two- and three-room apts.; garage to accommodate 30 automobiles).
 Owner and Builder—Thos. D. Fisher, 2851 23rd Ave., Oakland.
 Engineer—Crooks & Hill, 1448 Webster St., Oakland.

Structure will have brick and terra cotta exterior; mechanical ventilation in baths; steam heating system; hardwood floors throughout.

Bids To Be Taken Within A Few Days
ALTERATIONS Cost, \$—
OAKLAND, Alameda Co., Cal. Madison and Lake Sts.
 Alterations and additions to one-story frame apts. (add porch, etc.)
 Owner—San Jose Bldg. & Loan Assn., 16th and San Pablo, Oakland.
 Architect—W. E. Schirmer, 700 21st St., Oakland.

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BONDS

MARYSVILLE, Yuba Co., Cal.—Linda School District defaults proposal to issue bonds of \$9000 to finance erection of a 2-classroom addition to the present school.

BERKELEY, Alameda Co., Cal.—City rejects proposal to issue bonds of \$2,690,000 to finance erection of new school and additions to standing school buildings.

ALPAUGH, Tulare Co., Cal.—Alpaugh school district affirmed a \$9000 bond issue August 22, proceeds to be used for school improvements.

BERKELEY, Alameda Co., Cal.—With the proposal to vote bonds three times defeated, steps are being taken by civic leaders to secure funds for new schools and additions to the standing school structures via the direct tax method. An increase in the school tax from 30 to 50 cents, it is estimated, would provide \$450,000 every year for school building purposes—One \$300,000 high school unit and two \$75,000 elementary units.

CHURCHES

JACKSON, Amador Co., Cal.—Until September 7, bids will be received by Mike Radovich, Box 652, Jackson, for painting Saint Sava Church and parish house and erecting galvanized fence with cement foundation. Specifications obtainable from above.

August 30, 1930
 Preparing Working Drawings.
CHURCH Cost, \$20,000
EUREKA, Humboldt Co., Cal.
 One-story redwood church (Colonial type).
 Owner—First Methodist Church.
 Architect—Rollin S. Tuttle, Box C, Los Gatos.
 Plans will be forwarded to owners about Sept. 15th, after which time bids will probably be called for.

Preparing Plans.
CHURCH Cost, \$150,000
LOS ANGELES, Cal. W. Adams St. and 11th Avenue.
 Reinforced concrete class A church (to seat 600).
 Owner—Name Withheld
 Architects—Thos. P. Barber and Paul Kingsbury, Union Insurance Bldg., Los Angeles.

Plans Being Prepared.
CHURCH Cost, \$75,000
OAKLAND, Alameda Co., Cal. Emerson and Excelsior Aves.
 Reinforced concrete church.
 Owner—Roman Catholic Archbishop of San Francisco, 1150 Franklin St., San Francisco.
 Architect—W. E. Schirmer, 700 21st St., Oakland.

FACTORIES AND WAREHOUSES

Plans Being Figured—Bids Close Sept. 17, 2 P. M.
STATION Cost, \$—
UKIAH, Mendocino Co., Cal. Three and one-half miles north of Ukiah Highway maintenance station—prising superintendent's cottage, truck shed, office and store house.

loading platform, gasoline and oil house, septic tank, single wood shed, station sign and yard trellis
Owner—State of California (Highway Commission).

Architect—State Department of Architecture, State Office Bldg., Sacramento.

Bids are being received by the District Engineer at San Francisco. Deposit of \$25 required for plans, obtainable from John H. Skeggs, District Engineer, 211 State Office Bldg., San Francisco.

See call for bids under official proposal section in this issue.

Bids Opened.

HANGAR Cost, _____
STOCKTON, San Joaquin Co., Calif.,
Municipal Airport.

Frame and galvanized hangar (4 plane capacity; 50x60-ft.)

Owner—City of Stockton.
Plans by Lyle Payton, city engineer, City Hall, Stockton.

Following is a complete list of bids:

H. E. Vickroy, 1122 N Commercial St., Stockton.....	\$3,192
George Roek, Stockton.....	3,195
T. E. Williamson, Stockton.....	3,223
L. Tothaire, Stockton.....	3,247
Viscon & Salfeld, Stockton.....	3,259
C. H. Dodd, Stockton.....	3,365
Robert Beyrie, Stockton.....	3,471
John Hackman, Stockton.....	3,500
Frank Guyon, Stockton.....	3,590
D. E. Metzger, Stockton.....	3,650
J. M. Hildebrandt, Stockton.....	3,798
Ecker & Stegmaier, Stockton.....	3,940

Bids held under advisement until Sept. 8th.

SAN FRANCISCO.—J. Piasecki, 345 Haight St., at \$2346 submitted low bid to Board of Public Works to erect pump house to house Sunset Pumps. Complete list of bids follows:

J. Piasecki.....	\$2,346
F. J. Reilly.....	2,591
W. F. and C. W. Mattock.....	2,782
Jacks & Irvine.....	2,864
Clancy Brothers.....	2,976
Clinton-Stephens Co.....	3,084
C. C. W. and H. H. Haun.....	3,190
A. C. Vensano.....	3,423

Sub-Contracts Awarded.

SHED Cont. Price, \$114,863
SAN FRANCISCO. Pier No. 1.

One-story shed (reinforced concrete construction; steel columns, wood roof).

Owner—State Board of Harbor Commissioners.

Engineer—Frank White, Ferry Bldg., San Francisco.

Contractor—Barrett & Hilt, 918 Harrison St., San Francisco.

Plastering: James F. Smith, 271 Minna St., San Francisco.

Reinforced Steel: W. C. Hauck, 280 San Bruno Ave., San Francisco.

As previously reported, Redwood Lumber Co. awarded to Union Lumber Co., Crocker Bldg., S. E. structural steel to Moore Drydock Co., Balfour Bldg., San Francisco.

Contract Awarded.

CLEANING PLANT Cost \$—
SANTA BARBARA, Santa Barbara Co., Cal Gutierrez, St. bet.

State and Chapala Sts.—

Two reinforced concrete steel shed dry cleaning plants (130x83 ft.) and (75x35 ft.)

Owner—St. Paul Dye Works (G. H. Merritt, Manager).

Architect—Roland F. Sauter, Granada Bldg., Santa Barbara.

Plans To Be Prepared.

PLANT Cost, \$1,000,000
SAN FRANCISCO. North Beach District.

Oil Storage and Distributing Plant.

Owner—General Petroleum Corp., of Calif., 310 Sansome Street, San Francisco.

Engineers—Engineering Dept. of Owners.

The company proposes to erect the plant in some portion of the general area bounded by North Point, Beach, Powell and Mason streets. Erection of the plant, however, depends upon the Board of Supervisors amending an existing ordinance which hinders such construction in the area in which the plant is to be erected.

Contract Awarded.

REHABILITATION Cost, \$30,000
SAN FRANCISCO. 18th and Shotwell Streets.

Rehabilitation of warehouse.

Owner—Pacific Gas & Electric Co., 245 Market St.

Plans by Eng. Dept. of Owner.

Contractor—H. H. Larsen, 64 South Park.

Plans Being Figured—Bids Close Sept. 12th.

SERVICE BLDGS. Cost, \$38,000
AUBURN, Placer Co., Calif.

One-story brick and concrete service group (auto shed, warehouse bldg. and yard improvements).

Owner—Pacific Gas & Electric Co., 245 Market St., San Francisco.

Plans by Eng. Dept. of Owner.

Construction Indefinitely Postponed.

PRINTING PLANT Cost, \$100,000
SAN FRANCISCO. 134 Spring St.

Six-story reinforced concrete printing plant.

Owner—Edw. Barry Co., 32 Clay St.

Architect—Chas. E. Perry, 427 Sacramento St., Vallejo.

Contractor—David Paganini, 519 California St., San Francisco.

(1769) 1st report May 29, 1930; 2d rep. June 6, 1930.

Plans Being Figured—Bids Close Sept. 10, 2:30 P. M.

EXTENSION Cost, \$20,000
SAN FRANCISCO. Mills Field Municipal Airport.

Extension to hangars under Contract No. 19.

Owner—City and County of San Francisco.

Engineer—Bureau of Engineering, 3rd Floor, City Hall, San Francisco.

Certified check 10% payable to the clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering on deposit of \$10, returnable.

Preparing Working Drawings.

FACTORY Cost, Approx. \$10,000
RICHMOND, Contra Costa Co., Cal.

One-story brick sheet metal factory.

Owner—Richmond Paint Products Co., E. Duffy, President, 1401 Barrett Ave., Richmond.

Architect—Withheld.

Bids will be called for in about 3 weeks.

Bids To Be Taken Sept. 2.

PRINTING SHOP Cost, \$—
NEWMAN, Stanislaus Co., Cal.

One-story brick printing shop.

Owner—Newman Index Company.

Architect—Hardman & Russ, Berkeley Bank Bldg., Berkeley.

Bids will be taken from local contractors only.

Construction Indefinitely Postponed.

FACTORY Cost, \$60,000
OAKLAND, Alameda Co., Cal. 22nd and Campbell Sts.

Two-story reinforced concrete factory (41x62 ft.).

Owner—George Brooks, 6466 Morgan Ave., Oakland.

Architect—Chas. F. B. Roeth, 1404 Franklin St., Oakland.

OAKLAND, Cal.—Herrick Iron Works, 18th and Campbell Sts., Oakland, has purchased a block of land extending from 17th to 18th Sts.,

between Campbell and Wood Sts., adjacent to the present plant, for future expansion. It is not expected that building improvements will be undertaken for about six months.

Plant Boiler Contract Awarded.

ASSEMBLY PLANT Cost, \$3,500,000
RICHMOND, Contra Costa Co., Cal.

Group of steel frame and brick buildings (1-story assembly plant, 300,000 sq. ft.; 2 or 3-story wharf building and receiving building).

Owner—Ford Motor Car Co., Detroit.

Architect & Engineers—Albert Kahn, Inc., Marquette Bldg., Detroit.

Chief Engineer—(Ford Motor Car Co.) R. B. Brown, Detroit.

Contractor—Clinton Constr. Co., 923 Folson St., San Francisco.

Plant Boilers—Puget Sound Machinery Depot, 322 First St., Seattle, Wash.

PALERMO, Butte Co., Cal.—Boiler room and plant at Chico Canning Co., destroyed by fire August 28. Plant loss is estimated at \$15,000. No insurance was carried.

CHICO, Butte Co., Cal.—Boiler room and plant at Chico Canning Co., destroyed by fire August 28. Plant loss is estimated at \$15,000. No insurance was carried.

Plans Being Figured.

PRINTING SHOP Cost, \$—
NEWMAN, Stanislaus Co., Cal.

One-story brick printing shop.

Owner—Newman Index Company.

Architect—Hardman & Russ, Berkeley Bank Bldg., Berkeley.

Bids will be taken from local contractors only.

Contract Awarded.

PACKING HOUSE Cost, \$10,000
KING CITY, Monterey Co., Cal.

One-story concrete meat packing house.

Owner—King City Meat Co. (Jay Lynn, et al), King City.

Plans by Hugh Thompson.

Contractor—Hugh Thompson, Monterey.

Construction just started.

Sub Contracts Awarded.

FACTORY Cost, \$50,000
SAN FRANCISCO, McAllister Street near Fillmore Street.

Two-story and basement class C concrete loft building (offices and factory).

Owner—Royal Show Case Company.

Plans by Lawrence Ebbets, 320 Fulton Street.

Contractor—Spivock & Spivock, Hobart Building.

Reinforced Steel: W. S. Wettenhall, 17th and Wisconsin Sts.

Lumber: J. H. McCallum, 748 Bryant Street.

Steam Shovel Work: Sibley Grading & Teaming Co., 165 Landers St.

Steel Sash: Michel & Pfeiffer Iron Works, Harrison & 10th Sts.

Concrete: Golden Gate Atlas Materials Co., 16th & Harrison Sts.

Sub-Contracts Awarded.

SHED Cont. Price, \$114,863
SAN FRANCISCO. Pier No. 1.

One-story shed (reinforced concrete construction; steel columns, wood roof).

Owner—State Board of Harbor Commissioners.

Engineer—Frank White, Ferry Bldg., San Francisco.

Contractor—Barrett & Hilt, 918 Harrison St., San Francisco.

Piling—A. W. Kitchen & Co., 110 Market St.

Rein. Steel—W. C. Hauck & Co., 280 San Bruno Ave.

Steel Sash—Detroit Steel Products Co., Hunter Dulin Bldg.

Orn. Iron—F. Kern & Son, 517 6th St.

Structural Steel Contract Awarded.
PLANT Cost (1st unit), \$500,000.
PITTSBURG, Contra Costa Co., Cal.
 Twenty-acre site available.

Refractories plant (group of 4 or 5 steel frame, mill type buildings).
 Owner—Stockton Fire Brick Co., Russ Bldg., San Francisco.

Engineer—K. Thell, 580 Market St., San Francisco.

Structural Steel—Dyer Bros. Golden West Iron Works, 17th and Kansas Sts., San Francisco.

Structural steel contract is for the first unit.

As previously reported, grading contract awarded to Delta Dredging Co., Pittsburg; steel tank to Chicago Bridge & Iron Works, Rialto Bldg., San Francisco. Tank will be on 105-foot tower and of 30,000-gallon capacity. Modern equipment will be installed, including a continuous ear tunnel kiln. There will be considerable steel work involved.

RED BLUFF, Tehama Co., Cal.—Modern Cleaners, operated by E. D. Gynnn, has started grading in connection with a \$10,000 one-story reinforced concrete cleaning plant.

STOCKTON, San Joaquin Co., Cal.—Due to the present plant operating at capacity, construction of the new plant of the R. E. Le Tourneau Manufacturing Co., 122 Moss ave., Stockton, has been postponed until the completion of large orders on hand. The new factory is expected to cost \$40,000. Construction will be of the welded steel type. The company manufactures earth-moving and road-building equipment. 24

Sub-Contracts Awarded.
LOFT Cost, \$20,000.
SAN FRANCISCO, S Harrison St. E Fifth St.

One-story and mezzanine floor concrete loft.

Owner—Hilbar Company
 Architect—Edward A. Eames, 353 Sacramento St., San Francisco.
 Contractor—Barrett & Hlip, 918 Harrison St., San Francisco.

Lessee—R. & J. Dick Co., 58 Minna St., San Francisco.

Lumber—Sudden Lumber Co., Evans and Quint Sts.

Rein. Steel—W. C. Hauck & Co., 280 San Bruno Ave.

Steel Sash—U. S. Metal Products Co., 330 10th St.

Concrete—Readyminx Concrete Co., 575 Berry St.

OAKLAND, Alameda Co., Calif.—Following bids received by City of Oakland Port Commission, Oakland Bank Building, Oakland, for sprinkler system for the shed for Market Street Pier.

Turner Co., 329 Tehama Street, San Francisco, \$6300.

Western Automatic Sprinkler Corp., San Francisco, \$8900.

Automatic Sprinkler Corp., San Francisco, \$9250.

Bids held under advisement until Sept. 8th.

Contract Awarded.
SHOP & LOFTS Cost, \$30,000.
SAN FRANCISCO, N Howard W 7th Street.

Two-story and mezzanine floor concrete shop and loft.

Owner—D. Harband.

Engineer—A. C. Griewank, 208 Mission St.

Contractor—Schultz Const. Co., 46 Kearny St.

Contract Awarded.
WAREHOUSE Cost, \$17,000.
OAKLAND, Alameda Co., Cal. 1236 57th Ave.

One-story concrete warehouse.

Owner—Contractors' Machinery Exchange, 1135 57th Ave., Oakland.
 Plans by Builder.
 Contractor—Austin Co. of California, 729 Ray Bldg., Oakland.

Contract Awarded.
MFG. BLDGS. Cost, \$150,000.
SALINAS, Monterey Co., Cal.

Group of rubber manufacturing bldgs. Owner—American Rubber Producers, Inc., Matson Bldg., San Francisco.

Architect—Eng. Dept. of Owner.

Contractor—E. F. Reese, 153 Central Ave., Salinas.

Main building will be one-story concrete, wood frame and corrugated iron (102x100 feet). Sub-bids will be taken shortly.

FLATS

Contract Awarded.
FLATS Cost, \$12,000.
SAN FRANCISCO, Cal., 22nd St. bet. Dolores and Chattanooga Sts.

Two-story frame and stucco flats (2 flats).

Owner—Mrs. Johnson.
 Architect—Chas. Strothoff, 2274 15th Street.

Contractor—A. M. Arneson, care Architect.

GARAGES AND SERVICE STATIONS

Contract Awarded.
STATION Cost, \$10,000.
BERKELEY, Alameda Co., Cal., 3001 Telegraph Ave.

Class C service station.
 Owner—Union Oil Co., Mills Bldg., San Francisco.

Architect—Eng. Dept. of Owner.

Contractor—The Keating Construction Co., Oakland, Cal.

Plans Being Completed—Contract Awarded.
SERVICE STATION Cost, \$—
FRESNO, Fresno Co., Cal. Kern and Van Ness Ave.

Two-story Spanish type auto storage and super-service station.

Owner—H. C. Wesley (General Tire Co.), Fresno.

Architect—Rafael Lake, Pacific South-west Bldg., Fresno.

Contractor—Shields, Fisher and Lake, Pacific Southwest Bldg., Fresno.

GOVERNMENT WORK AND SUPPLIES

PHOENIX, Ariz.—Until September 19, 2 p. m., bids will be received by Jno. B. Brown, superintendent, U. S. Indian School, Phoenix, to furnish two open type spiral fire escapes; center post to be 4-in. wrought iron pipe; slide-way to be 16-gauge pressed steel plate at least 20 inches wide; guard rail to be of 16-gauge galvanized steel not less than 33 inches high; height of platform from the ground 15 ft. 10 in. Information obtainable from above.

SAN FRANCISCO—Until September 8, 3 p. m., under Order No. 2933-1890, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, to furnish and deliver Rio Vista, Solano county, a miscellaneous quantity of packing, metallic belt lacing, leather belting, hose, etc. Further information obtainable from above office.

OAKLAND, Cal.—Sullivan & Sullivan, 2653 Best Ave., Oakland, at \$3000 each awarded contract by the Department of Commerce, Airways Division, Lighthouse Service, to install five mast pole units at Oakland Air-

port, Fremont Airport and Sausalito Airport. Each unit consists of five mast poles with antenna radio wire and cables.

SAN FRANCISCO—Until September 19, 2 p. m., bids will be received by Superintendent of Lighthouse Customhouse for grading, rock excavation, construction of concrete landings, concrete stairways, reinforced concrete retaining walls, roadways, concrete rainshed and installation of pipe lines, water tanks, hoisting derricks, etc. Further information together with specifications obtainable from above office.

BLAINE, Wash.—As previously reported, Johnson Bros., Inc., 1716 East 56th St., Seattle, at \$126,000 submitted low bid to Supervising Architect, Treasury Department, Washington, D. C., to erect U. S. Customs and Immigration Inspection Station Buildings at Pacific Highway Site and Pace Arch Site at Blaine, Wash.

Complete list of bids follows:
 Johnson Bros., Inc., Seattle,

Wash. \$126,000
 Neil McDonald, Seattle,

Wash. \$128,483
 Harry Boyer, Son & Co., Olympia, Wash.

\$131,500
 Western Construction Co., Seattle, Wash.

\$132,637
 Bartleson & Ness, Seattle, Wash.

\$132,900
 Walter Petersen, Omaha, Neb.

\$135,648
 A. F. Mowatt, Seattle, Wash.

\$136,823
 William Wills, Seattle, Wash.

\$139,593
 Syllaasen & Sande, Seattle, Wash.

\$139,972
 Chrisman & Snyder, Seattle, Wash.

\$139,990
 Charles S. Chilson & George A. Brock, Bellingham, Wn.

\$142,463
 W. D. Lovell, Minneapolis, Minn.

\$144,260
 W. T. Butler Co., Seattle, Wash.

\$144,600
 Hedeon Construction Co., Seattle, Wash.

\$144,764
 Hallstrom & Hallstrom, Seattle, Wash.

\$146,500
 Pacific States Construction Co., Seattle, Wash.

\$147,216
 Commercial Construction Co., Seattle, Wash.

\$147,283
 William MacDonald Construction Co., St. Louis, Mo.

\$148,396
 Alexander & MacNeil, Mt. Vernon, Wash.

\$148,940
 George H. Moon, Bellingham, Wash.

\$158,729

Plans Being Prepared.

FEDERAL BLDG. Cost, \$—
SANTA ANA, Orange Co., Cal.

Two-story steel frame Federal Bldg. Owner—United States Government.

Architect—Supervising Architect, Treasury Dept., Washington, D. C.

Bids will be called before December 31st.

Preparing Plans.
FEDERAL BLDG. Cost, \$100,000.
POMONA, Los Angeles Co., Cal.

Thomas St. bet. 4th and 5th Sts. Two-story steel frame, marble and terra cotta Federal Building.

Owner—United States Government.

Architect—Supervising Architect, Treasury Dept., Washington, D. C.

Plans Being Figured—Bids Close Sept. 23, 3 p. m.

STATION Cost, \$—
SAN LUIS, Ariz.

Erect U. S. Inspection Station. Owner—U. S. Government.

Architect—Supervising Architect, Treasury Department, Washington, D. C.

See call for bids under official proposal section in this issue.

PEARL HARBOR, T. H.—Bids will be asked shortly by the Bureau of Yards and Docks, Navy Department, Washington, D. C., under Specification No. 6005, for refrigerating plant, Naval Operating Base, (Air Station). The project includes alterations and additions to the existing wood frame building and installation of refrigerating equipment furnished by the Government. Persons desiring to obtain bidding data should forward to the Bureau; to the Commandant, Naval Operating Base, Pearl Harbor, T. H.; or to the Commandant, Navy Yard, Mare Island, a check or postal money order for \$10, payable to the Chief of the Bureau of Yards and Docks, as security for the safe return of the drawings and specifications. Applications and deposits will then be placed on file, and the drawings and specifications mailed as soon as they are available.

SACRAMENTO, Cal.—Until September 8, 3 P.M., bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver Rio Vista Solano county, a miscellaneous quantity of galvanized unions, tees and other pipe fittings and valves. Specifications obtainable from above.

SAN DIEGO, Cal.—Time for opening bids to construct 55,000-bbl., steel tank and piping at Naval Operating Base, San Diego, under Specification No. 6155, has been extended from August 27 to September 10. Bids will be opened in Washington by the Bureau of Yards and Docks.

MARCH FIELD, Riverside, Calif.—Constructing quartermaster, March Field, completing plans and will call for bids about September 10 for the construction of concrete runway aprons at March Field; \$104,000 has been appropriated for the work.

Contract Awarded.
HOSPITAL. Cont. price, \$117,092
MARCH FIELD, Riverside, Calif.
Two-story and basement hospital (hollow concrete wall construction, reinforced concrete joists and floor slabs, stone and granite trim, tile slabs, stone and granite trim, tile Owner—United States Government.
Architect—Constructing Quartermaster, March Field, Riverside.
Contractor—R. J. Chute Co., 2516 W Santa Barbara Ave., Los Angeles.
Contract previously reported as being awarded to Los Angeles Contracting Co.

SAN DIEGO, Cal.—L. R. Miller Boiler Shop, San Diego, at \$449.50, under Specification 6255, awarded contract by Bureau of Yards and Docks, for repairs to auxiliary boiler No. 8 at San Diego.

MARCH FIELD, Riverside, Calif.—Constructing quartermaster, March Field, completing plans and will call for bids about September 10 for finishing the interior of hangars at March Field; \$75,000 has been appropriated for the work, which includes air compressor, heating and lighting systems.

COCO SOLO, C. Z.—Salem Foundry and Machine Works, Inc., Salem, Va., at \$6612 awarded contract by Bureau of Yards and Docks, under Specification 6176 to furnish and install elevators at Coco Solo.

SAN FRANCISCO, Calif.—Following bids received by public works officer, Mare Island Navy Yard, for improvements at the U. S. Naval Radio Compass Station at the Farallon Islands. Project will involve fire protection,

concrete walls, sewer, tank hoops and weatherstripping.
C. L. Jopert (1) \$2415; (2) \$400; (3) \$970; (4) \$300; (5) \$270; (6) \$475.
McCarthy & Johanns (1) \$2950; (2) \$450; (3) \$750; (4) \$300; (5) \$270; (6) \$600.

Chas. S. Kohler, Crockett (1) \$3130; (2) \$640; (3) \$1267; (4) \$495; (5) \$465; (6) \$1063.

L. M. Bruce, Peasanton (1) \$3960; (2) \$200; (3) \$850; (4) \$250; (5) \$400; (6) \$475.

Jos. Plasecki, San Francisco, (1) \$4411; (2) \$454; (3) \$2165; (4) \$540; (5) \$560 (6) \$625.

Bids referred to Washington for awards.

WASHINGTON, D. C.—Bids are being received by Bureau of Supplies & Accounts, Navy Department, Washington, D. C., to furnish and deliver miscellaneous supplies and equipment as noted in the following schedules, further information being available from the Navy Department Officer, 100 Harrison St., San Francisco:
Bids Open Sept. 9

Eastern and western yards, 110,000 lbs. pig lead; sch. 3990.
Mare Island, 4500 lbs. brass pipe and 4550 lbs. copper tubing; sch. 3983.
Mare Island, 100 transmitting vacuum tubes; sch. 3975.

Mare Island, two electric food-baking ovens and spare parts; sch. 3995.
Puget Sound, 5700 lbs. wrought iron coil chain; sch. 4009.

Western yards, radio transmitting equipments and spares; sch. 3992.
Puget Sound, 1200 lin. yds. tracing cloth; sch. 3991.

Bids Open Sept. 16.
Mare Island, 426 storage batteries; sch. 3999.

Mare Island or f.o.b. works, 18,000 ft. balsa; sch. 4008.

Mare Island, 10 main fuel tanks; San Diego, 26 main fuel tanks; sch. 4007.

San Diego, 150 aluminum water pitchers; Mare Island, 350 do; Puget Sound, 210 do; Puget Sound, 200 aluminum tureens; Puget Sound, 126 aluminum pans; sch. 4034.

San Diego, 430 self-closing inkstands; sch. 4033.

Various yards, radio transmitter tubes and motor generator sets; sch. 4049.

Various yards, 40 chronometric tachometers; sch. 4018.

Puget Sound, electric motors and spares for elevator gears, 30-hp.; sch. 4013.

San Diego, two motor trucks; sch. 4021.

CRESCENT CITY, Del Norte Co., Calif.—Following bids received by public works officer, Navy Yard, Mare Island, for improvements to fire protection and deepening of the existing well at the U. S. Naval Radio Compass Station at Point St. George, Crescent City.
Theo. Froelick, Crescent City (1) \$570; (2) \$5; (3) \$15.
McCarthy & Johanns, San Francisco (1) \$798; (2) \$10; (3) \$10.
Oliver S. Almie, San Francisco (1) \$1010; (2) \$19.75; (3) \$19.75.

Bids referred to Washington for award.

Contract Awarded.
OFFICES. Cost, \$71,350
MARCH FIELD, Riverside, Calif.
Twelve 1-story hollow concrete office quarters.

Owner—U. S. Government.
Architect—Constructing Quartermaster, March Field, Riverside.

Contractor—Cresmer Mfg. Co., Riverside.

SAN FRANCISCO, Cal.—Following bids received by Constructing Quartermaster, Fort Mason, to install new

control panel board and repair motors in Laundry Building No. 24 at the Letterman General Hospital:

(1) automatic control board motor; (2) installation of same.

American Laundry Machinery Co. (1) \$2380; (2) —.

Atlas Electric & Engineering Co. (1) —; (2) \$562.

Smith Electric Co. (1) —; (2) \$616.

Brayer Electric Co. (1) —; (2) \$650.

Kuchel & Sievers (1) —; (2) \$638.

Bids held under advisement.

HALLS AND SOCIETY BUILDINGS

Owner Taking Bids
CLUB HOUSE. Cost, \$100,00.

SANTA CRUZ, Santa Cruz Co., Cal. Pasatiempo Golf Club site.

One-story brick club house.

Owner—Santa Cruz Development Co. (R. A. Howe in charge), Scotts Valley Highway, Santa Cruz.

Architect—Clarence Tantau, Shreve Bldg., San Francisco.

Preliminary Plans Being Completed.
COMMUNITY CENTER COST, \$650,000
SAN FRANCISCO, California Street and Presidio Avenue.

Reinforced concrete community center Owner—Jewish Community Center.

Sidney M. Ehrman, Chairman, 63 Post St., San Francisco.

Architects—Hyman & Appleton, 63 Post St., and Arthur Brown Jr., Kearny St., San Francisco.

Building will contain gymnasium, swimming pool, handball courts, auditorium, theatre, club rooms, lecture hall, game rooms, lounge rooms and kitchen.

Plans Being Prepared
LADGE BLDG. Cost, \$110,000

LAS VEGAS, Nevada. Third and Fremont Sts.

Two-story reinforced concrete store and lodge building (store rooms, bank quarters, offices and lodge rooms).

Owner—Las Vegas Masonic Lodge.

Architect—Gilbert Stanley Underwood

California Reserve Bldg., Los Angeles.

It is expected to start construction in October.

Contract Awarded.
ALTERATIONS. Cost, —

OAKLAND, Alameda Co., Cal. No. 723 Fourteenth St.

Alterations and additions to Jewish Community Center.

Owner—Jewish Federation, Premises.

Architect—W. E. Schirmer, 700 21st St., Oakland.

Contractor—Conrad Roth, 2101 Central Ave., Alameda.

HOSPITALS

Plans To Be Prepared.
HOSPITAL. Cost approx, \$40,000

PLEASANTON, Alameda Co., Cal. Modern hospital (height and type of building not decided).

Owner—Community Hospital of Pleasanton Township (Dr. E. M. Eastman in charge).

Architect—Not Selected.

Financing arrangements are now being made. Articles of incorporation have been filed with the secretary of state and sufficient funds are expected to be available within a few weeks to assure the success of the project.

The board of governors which will direct the affairs of the hospital is composed of Jerome Arendt, chairman; Charles A. Gale, Crawford Letham, Dr. J. Hal Cope, Claude Smallwood, Thomas H. Silver and F. E. Martzell.

Contract Awarded.
DIET KITCHEN Cost, \$3075
AIWAHINEE, Madern Co., Cal.
 Construct diet kitchen and remodel present kitchen.
Owner—Tri-County Tuberculosis Sanatorium.
Engineer—W. E. Beesen, Shaffer Bldg., Merced.
Contractor—John E. Staderstad, Madern.
 Niel & Wirtner, Turlock, at \$3245 submitted the only other bid.

Plans to Be Prepared.
BUILDING Cost, \$—
SAN LEANDRO, Alameda Co., Cal.
 Health Center Building.
Owner—San Leandro Health Center.
Architect—Not yet selected.
 The city of San Leandro has pledged \$3,000 of the amount needed for construction. The Kiwanis Club, Chamber of Commerce and the American Legion will make a drive for funds to secure early erection of the building. W. A. Richmond is city manager of San Leandro.

Contract Awarded. Cost, \$20,000
COTTAGE, ETC. Cost, \$20,000
SACRAMENTO, Sacramento Co., Cal.
 Sutterville Road (Sacramento Orphanage and Children's Home).
 One 2-story frame cottage and one-story brick laundry, 28x60 ft., and boiler room.
Owner—City of Sacramento.
Architect—Dean & Dean, California State Life Bldg., Sacramento.
Contractor—Azevedo & Sarmento, 17th and Vallejo, Sacramento.
 Cottages will contain dining room, kitchen, porch, laundry, bedroom, sewing room and living room on the first floor and two dormitories, four dressing rooms, two bathrooms and quarters for the house mother on the second floor.

Following is a complete list of the bids:

Azevedo & Sarmento, Sacramento	\$21,900
Lindgren & Swinerton, Inc., Sacramento	21,982
C. J. Hopkinson, Sac.	22,590
Yoho & Bauder	22,470
Wm. C. Keating, Sac.	22,798
N. Lund, Sac.	22,872
Mathews Construction Co., Sacramento	23,100
Guth & Fox, Sac.	23,326
M. R. Petersen, Sac.	23,586

HOTELS

Sub Contracts Awarded.
HOTEL Cost, \$115,000
RENO, Wasnoe Co., Nevada. Second and Chestnut Sts.
 Six-story brick hotel (66 rooms and baths and 2 stores).
Owner—Abe, Zetoonay.
Architect—George Ferris & Son, Cladianos Bldg., Reno, Nevada.
Contractor—K. E. Parker, 135 South Park, San Francisco.
Plumbing and Heating—Reno Plumbing & Heating Co., Reno.
Grading—E. M. Starr, Reno.
Rein. Steel—Truscon Steel Co., Call Bldg., San Francisco.
Elec. Work—Reno Electric Works, Reno.
Structural Steel—McClintic Marshall Co., 2050 Bryant St., San Francisco.

Plans Being Prepared.
APT. HOTEL \$50,000 with furn.
BAKERSFIELD, Kern Co., Cal.
 Class "A" steel and reinforced concrete, apartment-hotel (air cooling and steam heating system).
Owner—E. W. Arbogast, et al., Euclid Hotel, 1926 I St., Bakersfield, Cal.
Architect—Withheld.

Preliminary Plans Being Prepared.
HOTEL Cost, \$1,000,000 or more
SEATTLE, Wash. Southwest Seventh Ave. and Bell St.
 Twenty-one steel frame or reinforced concrete (120x108-ft. in 1st 2 floors and 120x60-ft. on upper 19 floors).
Owner—Realty Owners Corp., Isaac Stevens Hotel, Northern Life Tower, Seattle.
Architect—Thos. Haire, Northern Life Tower, Seattle.

Bids Opened.
BARRACKS Cost, \$40,000
MONTREY, Monterey Co., Cal.
 Two two and three-story reinforced concrete barracks (for hotel help).
Owner—Hotel Del Monte.
Architect—Wm. Raiguel, Del Monte. Low Bidder—M. J. Murphy, Carmel.
 Following is a complete list of the bids received:
 M. J. Murphy, Carmel \$46,500
 H. C. Guyon 47,392
 George McCloud, S. F. 48,462
 H. H. Larsen, S. F. 49,423
 Lindgren & Swinerton, Inc., S. F. 49,700

Preparing Plans.
HOTEL Cost, \$325,000
PHOENIX, Arizona. Washington and Second Sts.
 Eight-story class A reinforced concrete hotel (150x150-ft.)
Owner—Plaza Improvement Corp.
Architect—Train & Cressey, 226 Western Mutual Bldg., Los Angeles.

ICE AND COLD STORAGE PLANTS

Sub Contracts Awarded.
ADDITION Cost, \$49,950
WATSONVILLE, Santa Cruz Co., Cal.
 Beach Road.
 Reinforced concrete addition to cold storage plant (75x110 ft.)
Owner—Apple Growers Cold Storage Co., Watsonville.
Engineer—L. H. Nishkian, 525 Market St., San Francisco.
Mechanical Engineers—Hunter & Hudson, 41 Sutter St., San Francisco.
Contractor—P. T. Wallstrum, 30 West Lake Ave., Watsonville.
Concrete Aggregates: Central Supply Co., Watsonville.
Structural Steel: Schrader Iron Works 1247 Harrison St., San Francisco.
Insulation: Cork Insulation Co., 354 Pine St., San Francisco.
Reinforced Steel: Concrete Engineering Co., 1280 Indiana St., S. P.
Cement: Santa Cruz Cement Company Crocker Bldg., San Francisco.
Mechanical Work: Crane Co., 301 Brannan St., San Francisco.
Roofing: P. J. Frierermuth Co., Watsonville.
Lumber: Hammond Lumber Co., Watsonville.

POWER PLANTS

SAN FRANCISCO—City defects proposal to issue bonds of \$3,525,000 to finance construction of connections and sub-station and \$1,045,000 to finance construction of the Red Mountain Bar Power Plant in connection with the Hetch Hetchy Municipal water project.

DENVER, Colo.—Until 3 p. m., Sept. 29, bids will be received by the U. S. Bureau of Reclamation, Denver, Colo., for construction of transmission lines and a power plant in the vicinity of Boulder Dam, for furnishing of power during the construction of the dam. Alternative proposals for the construction of one and two transmission lines will be received. Further information may be received from the Chief Engineer, at above address. Bid to be accom-

panied by a \$50,000 guarantee. Performance bond in sum of \$300,000 will be required.

SAN FRANCISCO—City defects proposal to issue bonds of \$44,500,000 to finance purchase of local distributing system of Pacific Gas & Electric Co., to operate as a municipal project. An issue for \$18,945,000 to purchase the distributing system of the Great Western Power Company was also defeated.

Plans Being Figured—Bids Close Sept. 22, 10:30 A. M.
POWER HOUSE Cost, \$30,000
MODESTO, Stanislaus Co., Cal. Stanislaus County Hospital.
 Two-story reinforced concrete and hollow tile power house (unit 3).
Owner—County of Stanislaus.
Architect—Russell Guerne De Lappe, 1710 Franklin St., Oakland.

SAN LUIS OBISPO, S. L. O. Co., Cal.—Midland Counties Public Service Corp., Chas. J. Kelly, manager, will expend \$50,000 on the construction of a 45-mile power line in the El Pomar-Creston districts, involving 800 cross-roads poles. Company will serve ranchers who will install modern electrified pumping and irrigation systems.

PHOENIX, Ariz.—Salt River Valley Water Users Ass'n will start work at once on a power line from point near Superior to connect with main lines, near Maricopa, 25 miles; will be wooden pole construction with 3 wire. Plans include sub-station and transformers.

OAKLAND, Alameda Co., Calif.—T. L. Rosenberg, 411 Webster Street, Oakland, at \$14,633 awarded contract by Engineers L'Hommiedieu and Wilson, Syndicate Bldg., Oakland, for underground wiring in connection with the development of the old Idora Park property. The work will involve connecting up with the services of the Pacific Gas and Electric Company and the Pacific Telephone and Telegraph Company. Services for an ornamental street lighting system will also be installed.

Following is a complete list of the bids received:
 T. L. Rosenberg, Oakland, \$14,633.
 A. C. Rice, \$14,733.
 Scott Butcher Co., Oakland, \$14,950.
 City Improvement Co., Oakland, \$15,841.

H. C. Reid, San Francisco, \$16,900.
 Butte Electric Mfg. Co., San Francisco, \$17,260.

Street work will be handled by Central Construction Co., Oakland.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

SAN FRANCISCO—City will vote on November 4 on the proposal to issue bonds of \$850,000 for the new county jail project to replace the present structures in the Ingleside district. Of the total amount voted, \$150,000 would finance purchase of a site, probably in San Mateo County, \$150,000 for a building to house 600 inmates and \$50,000 additional for grading in connection with the project.

OAKLAND, Cal.—Until September 25, 12 noon, bids will be received by Frank C. Merritt, city clerk, to furnish and install a combination automatic and manual telephone switchboard for fire alarm central station. Bond of 40% of contract price required of the successful bidder. Specifications on file in office of city clerk.

Contract Awarded.
LIBRARY Cont. Price, \$25,610
BERKELEY, Alameda Co., Cal. SW
Shattuck Ave. and Kittredge St.
Furnish and install furnishing and
technical equipment for new Main
Public Library.
Owner—City of Berkeley, Florence E.
Turner, City Clerk.
Architect—James W. Plachek, Mer-
cantile Trust Bldg., Berkeley.
Contractor—M. G. West Co., 339 13th
St., Oakland.

SALINAS, Monterey Co., Cal.—W.
F. Sechrest, 127 Geil street, Salinas,
at 1340 awarded contract by County
Clerk, to construct 3-cell jail build-
ing at Gonzales in Supervisor Dis-
trict No. 3.

Following is a complete list of the
bids received:

W. F. Sechrest, Salinas, \$1340; W.
E. Green, Modesto, \$1493; J. M. J. Mur-
phy, Carmel, \$1688; J. H. Clark, Sa-
linas, \$1689.

Work does not include steel, which
will be furnished by the county.

RESIDENCE

Plans Being Prepared.
BUNGALOW COURT Cost, \$8000
PLEASANTON, Alameda Co., Cal.
One-story frame and stucco bungalow
court.

Owner—W. F. Davis, Pleasanton.
Engineers—Cross & Hill, 1448 Web-
ster St., Oakland.

Bids will be taken in about one week.

Preparing Working Drawings.
RESIDENCE Cost, \$25,000
DEL MONTE, Monterey Co., Cal.
Two-story frame and stucco residence
(10 rooms).
Owner—Mrs. Van Ness.
Architect—W. O. Raiguel, Hotel Del
Monte, Monterey.

Bids Opened—Held Under Advertisment
RESIDENCE Cost, \$17,000
HILLSBOROUGH, San Mateo Co.
Two-story and basement frame and
stucco residence (9 rooms).
Owner—Boris Kitchen, Hillsborough
Drive, Hillsborough.
—Architect—Gardner Dailey, 425 Ma-
son St., San Francisco.

Plans Being Prepared.
PARISH HOUSE Cost, \$10,000
OAKLAND, Alameda Co., Cal. Em-
erson and Excelsior Aves.
Two-story frame and stucco parish
house.

Owner—Roman Catholic Archbishop of
San Francisco, 1100 Franklin St.,
San Francisco.
Architect—W. E. Schirmer, 700 21st
St., Oakland.

To Be Done By Day's Work By Owner
BUNGALOW Cost, \$10,000
BURLINGAME, San Mateo Co., Cal.
No. 5 Winchester St.
One-story frame and stucco bungalow
Owner and Builder—A. McLachlan,
2701 Adeline Dr., Burlingame.
Architect—None.

To Be Done By Day's Work By Owner
RESIDENCE Cost, \$11,000
SAN MATEO, San Mateo Co., Cal.
No. 534 Georgetown, Baywood.
Two-story frame and stucco residence
Owner and Builder—M. Sorensen, 16
Dwight Road, Burlingame.
Architect—None.

PETROLEUM, Kern Co., Cal.—
Until September 11, 5 P. M., bids will
be received by B. A. Hastin, clerk,
Petroleum School District, to erect a
4-room frame teacherage building on
school grounds in the north end of
the Kern Fields. Certified check 10%
required with bid. Plans on file in

the office of the County Superinten-
dent of Schools at Bakersfield.

Sub-Contracts Awarded
RESIDENCE Cost, \$15,000
HEALDSBURG, Sonoma Co., Cal.
Outside city limits.
Two-story brick veneer residence (6
rooms).

Owner—F. J. Dowsett.
Architect—E. J. Osborne, Balboa Bldg.
San Francisco.
Contractor—A. M. Hildebrand, Santa
Rosa.

Plumbing and Heating—A. W. Gar-
rett, Healdsburg.

Lumber and Mill Work—Stevens
Lumber Co., Healdsburg.

Plastering—Paul Lindan, Santa Rosa.

Painting—Raymond Son, Santa Rosa.

Electric Work—Karl Stotting, Santa
Rosa.

Brick Work—Wolsky & Son, Petaluma.

Roofing—Alta Roofing Co., 976 Indiana
St., San Francisco.

To Be Done by Day's Work by Owner.
RESIDENCE Cost, \$22,000
LOS GATOS, Santa Clara Co., Cal.
Two-story frame and stucco residence.
Owner—N. T. Bradford, president,
Western Well Drilling Co., 522 W
Santa Clara St., San Jose.

Plans by George Koehler, Commer-
cial Bldg., San Jose.

Construction will start in two or
three weeks.

Contract Awarded.
RESIDENCE Cost, \$12,500
OAKLAND, Alameda Co., Cal., 900
Paramount Road.

Two-story frame and stucco residence
(8 rooms).

Owner—A. R. Laphan, 947 Hillcroft
Circle, Oakland.

Contractor—Theo. H. Lapham, 546
Kenmore Ave., Oakland.

Bids To Be Taken Within One Week.
RESIDENCE Cost, \$20,000
SAN JOSE, Santa Clara Co., Cal.
Two-story and basement frame and
stucco residence.

Owner—T. W. MacQuarrie, 309 S 8th
St., San Jose.

Architect—Binder & Curtis, 35 W San
Carlos St., San Jose.

Bids To Be Taken In Two Weeks.
RESIDENCE Cost, \$—
ATHERTON, San Mateo Co., Cal.
Two-story residence.

Owner—Clarence Walter, 562 Mission
St., San Francisco.

Architect—H. H. Gutterson, 526 Powell
St., San Francisco.

Plans Being Figured.
RESIDENCE Cost, \$15,000
SAN JOSE, Santa Clara Co., Cal.
Two-story and basement frame and
stucco residence.

Owner—M Postlewaith, 444 S-15th
St., San Jose.
Architect—Binder & Curtis, 35 W-San
Carlos St., San Jose.

Sub-Bids Being Taken.
RESIDENCE Cost, \$12,000
SAN FRANCISCO, Westgate Drive,
near Darien Way.

Two-story frame and stucco residence
(11 rooms, 3 baths).

Owner—S. R. Anderson, 1433 7th Ave.,
San Francisco.

Plans by D. E. Jaeckle, Call Bldg., San
Francisco.

Plans Being Figured.
RESIDENCE Cost, \$12,000
OAKLAND, Alameda Co., Cal. Mt
Clair Highlands.

Two-story frame and stucco resi-
dence (7 rooms, 2 baths).

Owner—Dr. Alfred Wollet, 1904
Franklin St., Oakland.

Architect—Hamilton Murdock, Syndi-
cate Bldg., Oakland.

Plans Being Prepared—Contract
Awarded.

RESIDENCE Cost, \$12,000
LOS GATOS, Santa Clara Co., Cal.

One-story and basement concrete resi-
dence (8 room, 4 baths), Eng-
lish type.

Owner—Mrs. Emma L. Hopkins, Los
Gatos.

Architect—Rollin S. Tuttle, Box C,
Los Gatos, Cal.

Contractor—R. H. Sund, Los Gatos.
Contract awarded on cost plus basis.

Plans Being Figured—Bids Close
Sept. 2.

ALTERATIONS Cost, \$—
SAN FRANCISCO, Cal. 2949 Lake
Street.

Alterations and Additions to residence
(add. bed room, bath, etc.).

Owner—George L. Bond, 2949 Lake
St.

Architect—Bert Winter & Maury,
210 Post Street.

Contract Awarded.
RESIDENCE Cost, \$8000
WATSONVILLE, Santa Cruz Co., Cal.
One-story and basement frame and
stucco residence (7 rooms).

Owner—Robert Orr.
Architect—A. W. Story, Pajaro Val-
ley Bank Bldg., Watsonville.

Contractor—P. T. Wallstrom, Watson-
ville, Cal.

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RESIDENCES Cost, \$6000 and \$7000
WILLOW GLEN, Santa Clara Co., Cal.
 Twenty-seven 1-story and basement
 frame and stucco residences (4- 5-
 and 6-rooms.)
Owner and Builder—T. H. Hirschback
 Towhy Bldg., San Jose.
Architect—Charles McKenzie, Towhy
 Bldg., San Jose.

BEN LOMANDI, Santa Cruz Co.,
 Cal.—Grant Kenville, Ben Lomandi,
 has contract to remodel and make
 additions to the Henshaw home, by
 Fritz Henshaw, 1774 Broadway, Pied-
 mont. Two large wings will be added
 to the structure and the interior re-
 modeled.

RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Cal. North
 Cragmont.
 Two-story frame and stucco residence
 (6 rooms).
Owner—E. L. Synder, 2101 Shattuck
 Ave., Berkeley.
Plans by Owner.

Specifications Being Written.
RESIDENCE Cost, \$—
SAN FRANCISCO. Broadway St. nr.
 Baker St.
 Two-story and basement frame and
 stucco residence.
Owner—Dr. A. Lincoln Brown, Medi-
 cal-Dental Bldg.
Architect—Bakewell and Weihe, 251
 Kearny Street.

Plans Being Prepared—Contract
Awarded.
RESIDENCE Cost, \$13,000
SAN FRANCISCO. Location With-
 held.
 Two-story and basement frame and
 stucco residence (12 rooms, four
 baths).
Owner—Name Withheld.
Plans by D. E. Jaekle, Call Bldg.
Contractor—A. J. Herzig, 1945 Ocean
 Avenue.

Contract Awarded.
RESIDENCE Cost, \$14,000
OAKLAND, Alameda Co., Cal. 6011
 Acacia Ave.
 Two-story frame and stucco resi-
 dence (8 rooms and garage).
Owner—Mrs. J. M. Hunt
Plans by A. Dudman, 1640 Arch St.,
 Berkeley.
Contractor—Hubert K. Henderson, 393
 40th St., Oakland.

Plans Being Prepared. Cost, \$4000
RESIDENCE
MARTINEZ, Contra Costa Co., Cal.
 One-story frame and stucco residence
 (5 rooms).
Owner—Mrs. Mattie Lawry.
Architect—Ernest Flores, 410 Fairmont
 Ave., Berkeley.
 Bids will be taken for a general con-
 tract in two weeks.

SCHOOLS

Plans Being Figured—Bids Close
 September 10.
SCHOOL Cost, \$382,000
LOS ANGELES, Cal. Griffith Park
 Blvd.
 Group of high school buildings (brick
 construction).
Owner—Los Angeles Board of Educa-
tion.
Architect—George M. Lindsey and E.
P. Elden, Union Insurance Bldg.,
 Los Angeles.

WINDSOR, Sonoma Co., Cal.—
 Santa Rosa Roofing Co., Santa Rosa,
 awarded contract by Windsor School
 District for re-roofing the present
 school with green and red El Rey
 slate shingles of the Mar-Kee type.

Plans Being Figured—Bids Close Sep-
 tember 27, 10 A. M.
ADDITION Cost, \$—
HAWTHORNE, Nevada.
 Addition to Mineral County High
 School—comprising concrete walls
 and steel roof trusses; 86' 6" by
 62' 6".

Owner—Mineral County High School
 District, E. Ferretti, clerk, Haw-
 thorne, Nev.
Architect—F. J. DeLongchamps,
 Gazette Bldg., Reno, Nev.
 Plans obtained from architect or
 clerk on deposit of \$10, or which \$5
 is returnable.

Bids Opened.
SCHOOL Cost, \$35,000
HILLSBOROUGH, San Mateo Co., Cal.
 One-story frame and stucco auditor-
 ium addition and three covered
 passageways connecting buildings
 (tile roof).

Owner—Hillsborough School District.
Architect—Willis Polk Co., 277 Pine
 St., San Francisco.
 Warm air and natural gas furnace
 heating is provided; also tile roofing.
 Following is a complete list of the
 bids received:
Jacks & Irvine, 74 New Mont-
 gomery St., S. F. \$25,936
Joel Johnson, San Francisco 25,948
Peter Sorensen, San Francisco 25,955
Young & Horstmeier, S. F. 26,880
A. Mattock, S. F. 27,220
The Minton Co., Mt View 27,405
William B. Short, Palo Alto 27,489
G. W. Williams & Co.,
 Burlingame 28,485
T. J. Broderick, Burlingame 28,899
Chas. Peterson, San Mateo 29,905
J. Harold Johnson, S. F. 29,987
G. Magnuson, San Bruno 29,714
Messe & Briggs, San Mateo 29,985
J. S. Hannah, S. F. 29,998
D. D. Downing, Burlingame 31,794
 Three low bids held under advise-
 ment.

Contract Awarded
SCHOOL Cost, \$5,450
MONTREY, Monterey Co., Calif.
 One-story frame and stucco school
 with tile roof (electric heating).
Owner—Tularitos School District,
John Berta, Clerk.
Architect—W. O. Raiguel, West An-
 nex, Del Monte Hotel, Del Monte.
Contractor—Miles Bain, Carmel.

TAFT, Kern Co., Cal.—United Elec-
 tric Co., Taft, at \$3550 awarded con-
 tract by Taft Union High School
 District for steel towers; and Elec-
 tric Wire and Construction Co., Taft,
 at \$6329 for fixtures and wiring in
 connection with flood lighting system
 for school grounds. H. W. Weeks,
 architect, 110 Sutter st., San Fran-
 cisco.

Bids Opened
CAFETERIA Cost, \$20,000
SAN JOSE, Santa Clara Co., Cal.
 one-story reinforced concrete cafete-
 ria for Woodrow Wilson School
Owner—San Jose City School District.
Architect—W. H. Weeks, Bank of
 Italy Bldg., San Jose.

General Work
Wm. M. Myer, Blaney Ave., San
 Jose 118,980
W. O. Summers, San Jose 19,039
Chas. A. Thomas, San Jose 19,566
The Minton Co., Mt. View 20,509
Carl N. Swensen, San Jose 21,000
Paul N. Anderson, San Jose 21,822
F. J. Edmans, San Jose 22,385
J. C. Thorp, San Jose 23,050

Heating
Wm. Serpa, 497 N 13th St., San
 Jose \$1,465
C. A. Merritt & Son, San Jose 1,493
Pacific Heating & Ventilating Co.
 Oakland 1,560
A. J. Peters, San Jose 1,645
 Bids held under advisement.

Bonds Voted.
SCHOOL Cost, \$35,000
UPPER LAKE, Lake Co., Cal.
 One-story reinforced concrete high
 school.
Owner—Upper Lake Un. High School
 District.
Architect—William Herbert, Rosen-
 berg Bldg., Santa Rosa.
 Plans have been completed and bids
 will probably be called for in about
 30 days.

GRIDLEY, Butte Co., Cal.—Until
 September 11, 8 P. M., bids will be
 received by J. H. Hauser, clerk, Gridley
 Union High School District, to furnish
 and install sprinkler system at the
 football field at the high school
 grounds. Specifications obtainable
 from Mrs. C. W. Chase, 830 Hazel St.,
 Gridley.

SAN FRANCISCO—Until October
 17, 11 A. M., bids will be received by
 the Regents of the University of Cal-
 ifornia, for installation of mechanical
 equipment in the Central Heating
 Plant on the San Francisco Campus,
 University of California. Plans and
 further information obtainable from
 Cashier's Window, California Hall,
 University of California, Berkeley, on
 deposit of \$100, returnable.

COALINGA, Fresno Co., Cal.—Until
 September 10, 5 P. M., bids will be
 received by F. J. McCollum, Clerk,
 Coalinga Union High School District,
 144 West Elm St., to furnish 526 lineal
 feet of slate blackboard, four feet
 wide, or approximately 2104 square
 feet and install same in nine rooms in
 high school. Certified check 10% re-
 quired with bid.

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MARICOPA, Kern Co., Cal.—Until September 9, (to be opened Sept. 10, 7 P. M.), bids will be received by C. B. Warner, clerk, Maricopa High School District, for furnishing light dust-laying oil and apply same at school grounds. Specifications obtainable from above.

PALETO, Kern Co., Cal.—Until September 9, (to be opened September 10, 7 P. M.) bids will be received by C. B. Warner, clerk, Paleta Elementary School District, to furnish and apply light dust-laying oil at school grounds. Specifications obtainable from above.

Bonds Voted.
SCHOOL Cost, \$70,000
CALISTOGA, Napa Co., Cal.
One-story class C brick school (8 classrooms, assembly room and shop).
Owner—California Grammar School District.
Architect—Davis-Pearce, Inc., Builders' Bldg., Stockton.
Tile Roof, oil burning system, etc.
Bids will not be taken for sixty days.

COALINGA, Fresno Co., Cal.—Until September 10, 5 P. M., bids will be received by F. J. McCollum, Clerk, Coalinga Union High School District, to furnish and install single story free standing steel book stacks; eight sections one-half stacks and eleven sections full stacks, equivalent to Remington Rand non-free stack, Cat. No. 6064D and one inverted bracket attachment for same. Blue print obtainable from clerk, 144 West Elm St., Coalinga. Certified check 10% required with bid.

Plans Being Figured — Bids Close Sept. 13, 10 A. M.
SCHOOL Cost, \$16,000
CAMINO, El Dorado Co., Cal.
One-story English type stone and brick school (2 classrooms and auditorium).
Owner—Camino School Department.
Architect—W. E. Coffman, Forum Bldg., Sacramento, and 3529 Emerson St., Oakland.
Certified check 10% payable to J. J. Wiley, clerk of the district, required with bid. Plans obtainable from architect on deposit of \$25, returnable.

COALINGA, Fresno Co., Cal.—Until September 10, 5 P. M., bids will be received by F. J. McCollum, clerk, Coalinga Union High School District, 144 West Elm St., to furnish and install:

Proposal No. 1. One Stage Panel Board provided with 16 circuits and 9 dimmers, each circuit to have a safe carrying capacity of 1500 watts. Each dimmer to have sufficient resistance to dim its full rated load in lamps to a point where the filament can not be seen when in direct view of the eye as installed in the auditorium. Panel board to be the same or equal to board listed in Kliegl Bros. Condensed catalogue as No. 1209 except at capacity in circuits and watts. 26 feet of standard single row Pot Light porcelain enamel with sockets spaced 4 inches on center wired for three circuits to be of the same quality and construction as EPSCO (Form BP).

Two 26-foot sections of standard single row Boarder Light porcelain enameled provided with three circuits, sockets 4 inch on center, to be of same quality and construction EPSCO (Form BBP).

Two 7-foot sections of Strip Lights single row wired for three circuits, porcelain enameled, construction to be the same as that of EPSCO (Form SB).

Three single Stage-floor pockets, construction and capacity to be the same or equal to the Kliegl stage-floor pockets listed as their No. 351.
Proposal No. 2. Erecting and wiring of above equipment, i. e., putting panel board in position on the stage, connecting board with proper conductors to main panel board, connecting footlights, boarder lights, strip lights, stage-floor pockets and other circuits now on the stage to panel board.
Specifications and further information obtainable from clerk.

Plans Being Figured—Bids Close Sept. 20, 7:30 P. M.

SCHOOL Cost, \$—
PACIFIC GROVE, Monterey Co., Cal.
Install complete heating system in High School Addition.
Owner—Pacific Grove High School District, Dr. J. J. Williams, Clerk.
Architect—W. H. Weeks, 111 Sutter St., San Francisco, and Bank of Italy Bldg., San Jose.
Certified check 5% or bidder's bond payable to clerk required with bid. Plans obtainable from San Francisco or San Jose office of the architect and on file in the office of the clerk at Pacific Grove.

Contracts Awarded.
SCHOOL Cost, \$90,000
CERES, Stanislaus Co., Cal. Laurence Street.
One-story brick veneer grammar school with tile roof.
Owner—Ceres Grammar School Dist.
Architect—W. H. Weeks, 111 Sutter St., San Francisco.
Contractor—Ed. Green, Modesto, at \$67,500.

Electrical Work—L. H. A. Trueblood, Modesto.
Ed. H. Wolfe, Turlock, submitted lowest bid on heating and ventilating, same being held under advisement. Complete list of bids will be published shortly.

Bids Opened.
SCHOOL Cost, \$4500
MONTEREY, Monterey Co., Cal.
One-story frame and stucco school with tile roof (electric heating).
Owner—Tularcitos School District, John Berta, Clerk.
Architect—W. O. Raiguel, West Annex, Del Monte Hotel, Del Monte.
Low Bidder—Miles Bain, Carmel.

Following is a complete list of the bids received.
Miles Bain, Carmel\$5,450
M. J. Murphy, Carmel5,490
C. J. Raymond, Monterey6,198
Wm. Sweeney, Monterey6,470
Bids held under advisement.

Bids Opened.
SCHOOL Cost, \$250,000
SAN JOSE, Santa Clara Co., Cal.
Two-story reinforced concrete junior high school (Herbert Hoover Jr. High School).
Owner—San Jose City School District.
Architect—W. H. Weeks, Bank of Italy Bldg., San Jose.

General Work
Neves & Hart, 891 Harrison St., San Jose\$119,700
The Minton Co., Mt. View121,772
C. A. Thomas, San Jose124,753
E. T. Lesure, Oakland124,860
C. N. Swensen, San Jose124,868
W. J. Ochs, San Jose124,985
J. W. Cobby & Son, S. F.127,500
E. Nonnensen, San Jose129,571
N. Sjoberg & Son, S. F.129,781
F. J. Edmans, San Jose133,934
H. L. Petersen, S. F.133,955

Heating
A. J. Peters, 455 E Washington St., San Jose\$19,435
Scott Co., San Francisco19,494
George Schuster, Oakland19,884
Wm. Serpa, San Jose20,800
Carl T. Doell, Oakland20,938

J. A. Nelson, San Jose21,480
Pacific Heating & Ventilating Co., Oakland21,660
Hately & Hately, Sacramento22,226
M. G. Moening, San Jose22,607
J. W. Turner & Son, San Jose22,921
H. J. Pascoe, San Jose25,115
Plumbing
Carl T. Doell, 467 21st Street, Oakland\$17,536
Hately & Hately, Sacramento18,666
Scott Co., San Francisco18,987
George Schuster, Oakland19,255
J. W. Turner & Son, San Jose20,750
Wm. Ehler, San Jose20,875
A. J. Peters, San Jose21,442
Wm. J. Serpa, San Jose21,458
H. J. Pascoe, San Jose23,600
A. Kopley24,376

Ornamental Iron
San Jose Iron Works, 535 West San Carlos St., San Jose\$2,991
Harold Helwig, San Jose3,275
R. Helwig Iron Works, San Jose3,696
Artistic Metal Works, S. F.4,000
Fair Mfg. Co., San Francisco4,768
Pacific Iron Works, S. F.5,100
C. J. Hillard, San Francisco6,727

Sheet Metal
Superior Sheet Metal Works, 39 Natoma St., San Francisco\$3,635
Formder Cornice Works, S. F.4,433
East Bay Sheet Metal Works, Oakland4,514
Wm. Ehler, San Jose4,534
Wm. Serpa, San Jose4,587
H. J. Pascoe, San Jose4,617

Painting
C. Lynds, 578 West Santa Clara St., San Jose\$5,690
Wm. Herman, San Jose6,130
C. Diter, San Francisco6,583
Patterson Bros., San Jose6,600
Raphael Co., San Francisco7,400
D. E. Burgess, Richmond7,448
Gilbert Bros., San Jose7,918

Plastering
Charles and J. Terranova, 1212 Willard St., San Francisco\$18,966
W. A. Gould, San Jose19,575
C. Berg, San Francisco19,850
S. Caccamo, San Jose20,222
Geo. McGreese, San Jose22,500
J. C. Provenzano, San Jose22,156
Vincent Fatta, Oakland22,443
Wm. Newman, San Jose24,275

Glass
W. P. Fuller & Co., 90 S Second St., San Jose\$1,642
Garden City Glass Co., San Jose1,660
Cobbledick-Kibbe Co., San Jose1,747
Tyre Bros., San Francisco2,080

Hardware
Associated Hardware Co., 3360 San Pablo Ave., Oakland\$1,934
Payne Hardware Co., San Jose2,148
San Jose Hardware Hardware Co., San Jose2,292
Marshall Nevell Co., San Jose2,805

Tile
Art Tile & Mantel Co., 221 Oak St., San Francisco\$5,950
Rigney Tile Co., Oakland6,760
Simpson Tile Co., San Jose7,450

Roofing
J. Bush, St. Claire Bldg., San Jose\$2,410
W. J. Porter, San Jose3,075
Fred Hayden, San Jose3,175
N. Clark & Son, S. F.3,535

Electrical Work
Roy Butcher, 1020 Sherwood St., San Jose\$7,558
Gilbert Bros., San Jose9,525
Coast Electrical Service Co.9,750
Webb & Fleming, San Jose10,895

Shades
Robinson & Sons, Ist and San Carlos Sts., San Jose\$1,164
McKenley-Glans Co., San Jose1,230
Lion & Son, San Jose1,471
Bids held under advisement.

Contract Let.
SCHOOL Cost, \$—
CERES, Stanislaus Co., Calif. Laurence Street.
One-story brick veneer grammar school with tile roof.
Owner—Ceres Grammar School District.
Architect—W. H. Weeks, 111 Sutter St., San Francisco.

General Contractor—Ernest Green, Sycamore St., Modesto, \$65,500.
Electric Work—H. A. Trueblood, 1316 9th St., Modesto, \$3,423.

General Contract
Ernest Green, Modesto.....\$65,500
Neil & Wirtner, Turlock.....72,160
J. J. Grodum & Co., Alameda.....74,400
M. F. Varozza.....75,465
Samuel Eyre, Tracy.....75,785
Metzger & Son, Stockton.....75,500
H. H. Henning Co., Stockton.....75,550
The Minton Co., Mt. View.....75,995
E. H. Riley, Stockton.....76,543
Mather Const. Co., Sacto.....76,995
Geo. G. Wood, Fresno.....77,500
Geo. Ulrich, Modesto.....77,800
Brown, Modesto.....78,960
Carl Swenson, San Jose.....79,240
N. J. Sjoberg, San Francisco.....79,466
H. Tennyson.....79,682
Cobby & Son, San Francisco.....82,200
E. K. Nelson, San Francisco.....85,000

Electric Work
H. E. Trueblood, Modesto.....\$3,423
Eddy Electric Co., Stockton.....3,694
Superior Elec. Co., San Francisco 4,292
C. P. R. Electric Shop, Turlock.....4,320
Gill Bros., Ceres.....4,382
Collins Electric Co., Stockton.....4,561
O'Connell & Tarkard, Modesto.....4,798

Heating
(Bids taken under advisement)
H. A. Trueblood, Modesto.....\$7,440
Edw. Wolfe, Turlock.....7,475
D. R. Hoffman, Modesto.....7,684
T. J. Kennedy, Martinez.....7,817
Andy Thorsen, Turlock.....7,930
Geo. Schuster, Oakland.....8,285
B. A. Newman Co., Fresno.....8,455
Scott Co., Oakland.....8,480
Carl T. Doell, Oakland.....9,120
Scott Plumbing and Electric Co., Sacramento.....9,400

BANKS, STORES & OFFICES

General Contract Plans Being Re-figured—Bids Close Sept. 30 2 P. M.

OFFICES Cost, \$—
LOS ANGELES, Cal. Civic Center. Property bounded by First, Spring Broadway and Court Sts.
Twelve-story and basement class A State office building.
Owner—State of California.
Architect—John C. Austin (of the firm of John C. Austin and Frederick M. Ashley) Chamber of Commerce Bldg., Los Angeles.

Bids are wanted for a general contract, with three alternate propositions. Bids, previously opened for granite, structural steel, electric work elevators, plumbing, heating and ventilating work have been taken under further advisement.

Following is a complete list of the low bids received under the bid opening of August 6:

General Work—Weymouth Crowell Co., Los Angeles, \$639,000.
Granite—McGillivray-Raymond Co., Los Angeles, \$199,385.
Structural Steel—Consolidated Steel Corp., Los Angeles, \$128,775.
Electrical Work—H. H. Walker Elec. Co., Los Angeles, \$43,894.
Elevators—Consolidated Steel Corp., Los Angeles, \$47,900.
Plumbing—Pacific Pipe & Supply Co., Los Angeles, \$47,673.
Heating—Lohman Bros., Los Angeles, \$33,383.
Ventilating—J. Herman Co., Los Angeles, \$16,850.

See call for bids under official proposal section in this issue.

Completing Plans.
STONE BLDG. Cost, \$50,000
SAN JOSE, Santa Clara Co., Cal., 6th and St. John Sts.
One and two-story frame and cast stone veneer physicians' building (cover area of 7500 sq. ft.)
Owner—Group of Local Physicians.
Architect—Herman Krause, P O Box 783, San Jose.
Bids will be taken in 2 weeks.

Sub Contracts Awarded.
STORE Cost, \$150,000
OAKLAND, Alameda Co., Cal. 20th St. and Broadway.
Three-story class A store.
Owner—L. Maguin & Co., Grant Ave. and Geary St., San Francisco.
Architect—Weeks and Day, Financial Center Bldg., San Francisco.
Contractor—Chas. Heyer, Mills Bldg., San Francisco.

Brick Work—Mealey & Collins, 666 Mission St., San Francisco.
Terra Cotta—N. Clark & Son, 116 Natoma St., San Francisco.

Sheet Metal—Morrison & Co., 74 DuBoce Ave., San Francisco.
Skylights—Forderer Cornice Works, 269 Potrero Ave., San Francisco.

Waterproofing—Horn Products Co., 354 Hobart St., Oakland.

Tile Work—Higley Tile Co., 3012 Harrison St., Oakland.
Marble and Steel Sash—Vermont Marble Co., 244 Brannan St., San Francisco.

Orn. Iron—Michel & Pfeiffer Iron Works, Harrison and 10th St., San Francisco.

Toilet Partitions—Price Bldg. Specialties Co., 633 Howard St., San Francisco.

Elevators—Spencer Elevators Co., 166 7th St., San Francisco.

Plumbing and Heating—Fearey & Moll, 1075 40th St., Oakland.

Awings—J. L. Stewart, 33 Front St., San Francisco.

Painting—D. Zelinsky, 165 Grove St., San Francisco.
As prev. reported:

Piles—MacArthur Concrete Pile Co., 58 Sutter St., San Francisco.

Reinforcing Steel—Gunn & Carle, Ltd., 444 Market St., San Francisco.

Excavation—J. Catucci, 1212 18th Ave. Oakland.

Sub Contracts Awarded.
BLDG. Cont. Price, \$24,450
EUREKA, Humboldt Co., Cal. Fifth St. bet. F and G Sts.
Two-story brick building.
Owner—W. P. Fuller & Co., 301 Mission St., San Francisco.
Architect—Franklin T. Georgeson, 6th and G St., Eureka.
Contractor—Fred J. Maurer & Son, Eureka.

Elevators—Atlas Elevator Co., 34 Harriet St., San Francisco.

Lumber—McKay & Co., Eureka.
Plumbing & Heating—Flook & Son., Eureka.

Electric Work—Home Electric Co., Eureka.

Sheet Metal—John Ryan, Eureka.
Mill Work—Little River Redwood Co., and Cottrells Molding Mill, Eureka.

Rein. Steel—Concrete Engineering Co., 1280 Indiana St., S. F.
Painting—Ole Olsen, Eureka.

Plans Being Prepared.
STORE Cost, \$—
MT. EDEN, Santa Clara Co., Cal. Remodel Present Store.
Owner—Mr. Dennis.
Architect—Wolfe & Higgins, Realty Bldg., San Jose.
Bids will be taken in about one week.

Contract Awarded.
ALTERATIONS Cost, \$3233
SANTA CLARA, Santa Clara Co., Cal. Franklin Street.
Alterations to present store.
Owner—Belle Machefert, 252 S 16th St., San Jose.

Architect—Wolfe and Higgins, Realty Bldg., San Jose.

Contractor—Frank Neves, 391 Harrison St., San Jose.

PASO ROBLES, San Luis Obispo Co., Cal.—William Lane, Paso Robles, awarded contract by R. C. Heaton to erect store building at Thirteenth and

Park streets for lease to the J. C. Penny Co., chain store operators

Plans Being Completed.
ALTERATIONS Cost, \$100,000
SAN FRANCISCO. St. Francis Hotel (Howell, Geary and Post Sts.)
Alter mural room for restaurant and sweet shop.
Owner—St. Francis Hotel
Architect—W. B. Faville, Crocker 1st National Bank Bldg.
Lessee—Ulgm Whistle Corp.
Bids will be taken in two weeks

Plans To Be Prepared.
BANK Cost approx \$2,000
CASTROVILLE, Monterey Co., Cal. One-story brick bank.
Owner—Monterey County Trust and Savings Bank, Salinas.
Architect—H. H. Winner Co., 530 Market St., San Francisco.

Contract Awarded—Grading Completed
ANNEX Cost, \$—
DUNSMUIR, Siskiyou Co., Cal. Florence Avenue.
Two-story concrete postoffice annex (25x25-ft.)

Owner—William R. Lee, Dunsmuir.
Private Plans.
Contractor—M. E. Bordwell, Dunsmuir.

Contract Awarded.
STUDIO Cost, \$6,500
SAN FRANCISCO. S Francisco East Mason St.
One-story, mezzanine floor and basement frame studio.
Owner—P. O. Tognelli, 3056 Gough St.
Architect—None.
Contractor—C. Lindberg, 1 Naylor St.

Plans Being Prepared.
ALTERATIONS Cost, \$10,000
GILROY, Santa Clara Co., Cal. Alterations and additions to bank.
Owner—American Trust Co., 464 California St., San Francisco.
Architect—A. H. Herman, 464 California St., San Francisco.

Preliminary Plans Being Prepared.
OFFICES Cost, \$60,000
SAN FRANCISCO. Sansome St. bet Pine and California Sts.
Fifteen-story class A office bldg.
Owner—Norwich Un. Fire Insurance Co., San Francisco.
Architect—Weeks and Day, Financial Center Bldg.

Proposed project is in a very preliminary stage.

Plans Being Figured.
NEWSPAPER PLANT Cost, \$225,000
HOLLYWOOD, Los Angeles Co., Cal. 1541-49 Wilcox Ave.
Two-story and basement reinforced concrete newspaper plant (141x143 feet).

Owner—Hollywood News Pub Co.
Architect—F. D. Rutherford, 11115 Bldg., Santa Monica.

Contract Awarded.
STORE Cost, \$12,000
OAKLAND, Alameda Co., Cal. Cleveland and Althl Streets
One story and basement brick store.
Owner—Robert Gage.
Architect—E. L. Snyder, 2101 Shattuck, Berkeley.

Contractor—W. E. Lynn, 354 Hobart St., Oakland.

Plans Being Figured—Bids Close Sept. 10, 1930
STORE Cost \$15,000
SAN MATEO, San Mateo Co., Cal. Third Ave.
One-story and basement reinforced concrete store (40x85).
Owner—Martin Stelling, Jr., 155 Montgomery St., San Francisco.
Architect—Berta Winter & Maury, 210 Post St., San Francisco

Plans Being Completed.
STORE Cost, \$20,000
BERKELEY, Alameda Co., Cal., Shattuck Avenue.
Owner—Name Withheld.
Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.
Bids will be taken in one week.

Plans Being Completed.
DENTAL BLDG Cost, \$175,000
OAKLAND, Alameda Co., Cal. 34th St. and Broadway.
Three-story reinforced steel frame and brick Medico-Dental Building.
Owner—Withheld.
Architect—Fred H. Reimers, Franklin Bldg., Oakland.
Bids will be called for shortly.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$—
ANTIOCH, Contra Costa Co., Cal. No. 601 Second Street.
Alterations and additions to present two-story reinforced concrete building.
Owner—First National Bank, Antioch.

Architect—Arthur Johnson, State Hotel, 18 Turk St., San Francisco.
Engineer—W. W. Wethered, State Hotel, 18 Turk St., San Francisco.
Manager of Construction—G. H. Field, Antioch.

Plumbing—W. H. Beasley, Antioch.
Electric Work—Harry H. Hoxie, Antioch.
Tile—B. J. Fowler, Antioch.
Lumber and Mill Work—Antioch Lumber Co., Antioch.
Excavating—Bullach & Glass, Antioch.

THEATRES

Preparing Working Drawings.
OPERA HOUSE Cost, \$2,500,000
SAN FRANCISCO. Block bounded by Van Ness Ave., Franklin, Grove and Fulton Sts.
Six-story Class A opera house, seating capacity 4000; standing room 500.
Owner—City and County of San Francisco (S. F. War Memorial).
Architect—G. A. Lansburgh, 140 Montgomery St. and Arthur Brown, 251 Kearny St., San Francisco.
Bids will probably not be called for until January, 1931.

Preparing Working Drawings.
LEGION BLDG. Cost, \$2,500,000
SAN FRANCISCO. Civic Center.
Four-story and basement concrete Class A Legion Building.
Owner—City and County of San Francisco (S. F. War Memorial).
Architect—G. A. Lansburgh, 140 Montgomery St. and Arthur Brown, 251 Kearny St., San Francisco.
A. Wagstaff, 451 Montgomery St., is in charge of the memorial drafting rooms.
Bids will probably not be called for until January, 1931.

Sub-Bids Being Taken.
THEATRE Cost, \$300,000
HUNTINGTON PARK, Los Angeles Co., Cal. Zoe and Saturn Aves.
Class A theatre.
Owner—Fox West Coast Theatres, Inc.
Architect—Paul R. Williams, 3339 Wilshire Blvd., Los Angeles.
Contractor—O'Neal & Sons, 3339 Wilshire Blvd., Los Angeles.

Contract Awarded.
THEATRE Cost, \$150,000
LOS ANGELES, Cal. Livonia and Pico Blvd.
Two-story and basement reinforced concrete theatre (to seat 1500).
Owner—Hollywood West Coast Theatres, Inc.

Architect—Boller Bros., Douglas Bldg., Los Angeles.
Contractor—Henry I. Beller Constr. Co., 5613 Hollywood Blvd., Los Angeles.

Plans Being Figured—Bids Close Sept. 12th, 10 A. M.
THEATRE Cost \$250,000
SAN FRANCISCO. Ocean Avenue bet. Fairfield and Lakewood Aves.
Class A steel frame and reinforced concrete theatre and (6-8) stores; theatre seating 1800.
Owner—Samuel Levin.
Architect—Miller & Phueger, 580 Market St.

Bids are being taken for a general contract with separate bids on mechanical work and electrical work.
Structure will have a seating capacity of 1800 and contain six or eight stores. It will have a frontage of 182 feet on Ocean Ave.

MISCELLANEOUS CONSTRUCTION

Contract Awarded.
BUNKERS Cost, \$12,000
SAN MATEO, San Mateo Co., Cal. Woodside Way.
Reinforced concrete sand and gravel bunkers.
Owner—H. E. Casey Co., San Mateo.
Architect—None.
Contractor—A. M. Schulte, 120 Bancroft St., Burlingame.

SAN FRANCISCO—City will vote November 4 on the proposal to issue bonds of \$4,000,000 to finance developments at the Mills Field Municipal Airport, portions of which will finance the purchase of land in connection with the field. Expenditure segregations, as compiled by M. M. O'Shaughnessy, city engineer, follows:

For purchase of 1002 acres of land from the Mills estate, in addition to the 110 acres now owned by the city, \$945,000.

For purchase of 1080 acres of tidelands, lying to the east of the airport, \$108,000.

For construction of a rip-rap dyke, \$440,000.
For 13,510,000 cubic yards of fill, \$1,351,000.

For runways, \$308,000.
For dressing, grading and seeding the field, \$270,000.

For 338,000 square feet of concrete for aprons and strips, \$101,400.
For roads and parking spaces, \$56,000.

For additional hangars, \$90,000; administration building, \$100,000; pumps and drainage, \$106,600, and night lighting, \$125,000.

The plans providing for essential lighting developments include four major runways, a harbor for amphibian and seaplanes, a yacht harbor and adequate channel. Some 500 acres west of the highway will be reserved for aviation industries.

Plans Being Completed.
MAUSOLEUM Cost, \$150,000
LONG BEACH, Los Angeles Co., Cal. Cherry Road.
Two and three-story reinforced concrete mausoleum (1000 crypts) (275 50 feet).
Owner—Sunnyside Mausoleum Co.
Architect—Clarence L. Jay, 871 E. Washington St., Pasadena.

LIVERMORE, Alameda Co., Cal.—Until September 6, 11 A. M., bids will be received by Dr. C. W. Mack, Clerk, Livermore Union High School District, to haul earth from new plant of the Kaiser Paving Company near Pleasanton to the high school grounds. Specifications obtainable from clerk.

REDWOOD CITY, San Mateo Co., Cal.—Until September 15, 3 P. M., bids will be received by B. E. Myers, City Clerk, to construct reinforced concrete retaining wall on Stafford St. at Cordilleras Clerk. Certified check 10% payable to city required with bid. Plans obtainable from C. L. Dinmitt, city engineer.

Plans To Be Prepared.
BUILDING Cost, \$20,000
SAN RAFAEL, Marin Co., Cal.
Two-story brick humane society bldg. Owner—Humane Society.
Architect—N. W. Sexton, de Young Bldg., San Francisco.
Plans will be ready for bids in 30 days.

Contract Awarded.
SWIMMING POOL Cost approx. \$4000
FAIRFAX, Marin Co., Cal.
Reinforced concrete swimming pool. Owner—Meadow Club of Tamalpais.
Engineer—Maurice Couchot, 525 Market St., San Francisco.
Contractor—Industrial Const. Co., 815 Bryant St., San Francisco.
Filtering System—International Filter Co., Monadnock Bldg., San Francisco.

MISCELLANEOUS SUPPLIES AND MATERIALS

OAKLAND, Cal.—Until September 16, 4 p. m., bids will be received by John W. Edgemond, secretary, Board of Education, 104 Administration Bldg., to furnish and deliver fuel oil. Specifications obtainable from Assistant Business Manager of the board.

A state-wide educational campaign on behalf of Constitutional Amendment Number Six has just been initiated with the support of leaders in Protestant, Catholic and Jewish organizations, the California State Federation of Labor, women's clubs and hospital officials. This amendment, to be voted upon November 4th, provides tax exemption for the non-profit hospitals in this State. The plan of education is being conducted by the California Committee for Tax Exemption of the Non-Profit Hospitals.

"Forty-five States in the Union already provide tax relief for the non-profit hospitals," states G. W. Curtis of Santa Barbara, general chairman of the committee. "Tax exemption has been granted to the non-profit hospitals in these forty-five states on the grounds that these hospitals share the public burden and are not commercial in character," Mr. Curtis continues.

Free service of over \$2,500,000 was contributed by sixty-four non-profit hospitals in California during 1929, according to Mr. Curtis. A non-profit hospital is distinguished from other hospitals in that all earnings from the institution are devoted to the conduct of the hospital and no officers, trustees, or directors receive for any dividends, fees or payments for their services. It was explained. Of these 64 hospitals reporting, 12 are under Protestant auspices, 17 under Catholic auspices, 3 Jews, 9 labor and fraternal and 23 community, and therefore non-sectarian.

Engineering News Section

BRIDGES

SAN FRANCISCO—Directors of the Golden Gate Bridge & Highway District have voted to place a bond issue of \$35,000,000 before the voters at the November election to finance construction of the proposed bridge over the Golden Gate Strait.

REDWOOD CITY, San Mateo Co., Cal.—Until September 15, 3 P. M., bids will be received by B. E. Myers, City Clerk, to construct reinforced concrete retaining wall on Stafford St. at Cordilleras Clerk. Certificate check 10% payable to city required with bid. Plans obtainable from C. L. Dimmitt, city engineer.

LOS ANGELES, Cal.—San Francisco Bridge Co., 14 Montgomery St., San Francisco, at \$71,900 submitted low bid to U. S. Engineer Office, Los Angeles, using a 20-ton derrick plant, to repair revetment at Reservation Point. Using clamshell dredges, the company bid \$73,000. Merritt, Chapman and Scott, Corp., San Pedro, only other bidder at \$81,300.

SACRAMENTO, Cal.—City Engineer Fred J. Klaus has completed tentative plans and estimates for the proposed subway at Fifty-seventh and H streets. The total cost is estimated at \$98,470 of which the Southern Pacific Railroad will be asked to pay one-half. The city has not yet decided on the method of financing its portion of the cost. Two methods are suggested, one a bond issue and the other an arrangement for progressive payments financed from taxes over a period of several years. There is \$10,000 available for the project in the current year's budget. The plans provide for a clear-span structure of the type in use at Sixteenth and B Sts., to have 4-lanes of traffic. It will be constructed on 106 concrete piles, reinforced with steel and waterproofed.

OAKLAND, Cal.—A conference will be held shortly between members of the City Council, the county supervisors and the City Port Commission, to consider alternate plans prepared by County Surveyor Geo. A. Posey for replacement of the Park Street bridge. Plans for two types have been prepared, one for a lift type and the other for a bascule type bridge. Replacement of the bridge is necessary, as the War Department announces there will be no further dredging of the estuary until bridges are provided for larger ships.

STOCKTON, San Joaquin Co., Cal.—Hearing by the State Railroad Commission on Stockton's application for permission to construct a subway on Charter Way under the Southern Pacific and Western Pacific railroads has been postponed from September 4 to December 9. The project will cost \$200,000, of which the two railroads will pay one-half and the city the remaining half.

MARYSVILLE, Yuba Co., Cal.—Until September 11, 10 a. m., bids will be received by W. M. Streif, county clerk, to construct:
(1) concrete bridge on Bit House Road at Mrs. Blake's Farm;

(2) concrete culvert across ditch at Higgins and Lubman's;
(3) two concrete bridges on the Dobbins road near Scott's place.

Certified check 10 per cent payable to county clerk required with bid. Specifications obtainable from clerk on payment of \$1.

LOS ANGELES COUNTY, Cal.—Following bids received September 3 by State Highway Commission to construct a reinforced concrete girder bridge across Castaic Creek, about 1/2 mile north of Castaic Junction, composed of seven 35-ft. spans on concrete bents and concrete abutments with pile foundations:
Carpenter Bros., Inc., Beverly Hills \$31,149
Oberg Bros., Los Angeles 32,166
R. H. Travers, Los Angeles 32,847
A. R. Bodenhamer, Carpinteria 34,841
George Ulrich Construction Co., Modesto 35,695
Gist & Bell, Arcadia 35,890
M. H. Slocumbe, Pasadena 36,219
R. R. Bishop, Long Beach 37,700
Beyert & Dunn, Los Angeles 38,643
Bids held under advisement.

SANTA ROSA, Sonoma Co., Calif.—Walter L. Proctor, Santa Rosa, awarded contract by county supervisors to construct two reinforced concrete culverts on the Paula road in Second Supervisorial District. Project involves: 115 cu. yds. class A concrete; 12,500 lbs. reinforcing steel; 86 cu. yds. excavation.

SANTA ROSA, Sonoma Co., Calif.—Walter L. Proctor, Santa Rosa, awarded contract by county supervisors to construct three timber trestles over Santa Rosa Creek at the Ballou ranch in the Third Supervisorial District. Project involves: 4,000 cu. yds. excavation; 2,680 ft. redwood piling; 44.6 M. B. M. lumber.

SAN JOSE, Santa Clara Co., Cal.—Thermotte Construction Co., San Jose, at \$4198 awarded contract by county supervisors to widen concrete bridges on Quinto road at Austin Corners and on Fruitvale ave., over Wildcat Creek and a concrete wall at Ralsch's place on the Quinto road, all in Supervisorial District No. 5. Complete list of bids follows:
Thermotte Construction Co. \$4198
C. C. Gildersleeve 4244
Collins and Martin 4274
Surveyor's estimate \$4200

DREDGING, HARBOR WORKS & EXCAVATIONS

SANTA BARBARA, Cal.—City council reconsiders action on bids to construct East River seawall and will re-advertise for bids on the work. Merritt, Chapman and Scott Corp., San Pedro, only bidders at \$118,000. City proposes to keep cost within the \$200,000 available for construction.

CORTE MADERA, Marin Co., Cal.—U. S. Engineer Office, Customhouse, San Francisco, is making survey of Corte Madera creek, which runs from the bay to the bridge at Kentfield, under the River and Harbor Act. The survey is to be made to determine the amount of tonnage that could be

shipped in and out of the channel provided it was dredged out and made navigable.

STOCKTON, San Joaquin Co., Cal.—Fred C. Franks Contracting Co., 260 California St., San Francisco, submitted low bid to the U. S. Engineer at Sacramento, 9.8c cu. yd. for part 1, clamshell dredging for constructing levees and embankments along the San Joaquin River in connection with the San Joaquin and Stockton Channel Project. The project involves approximately 2,617,100 cu. yds. clamshell dredging. The bid was 9.8c in borrow pit or 7.4c in bucket. Part 111—7.2c yd. in borrow pit or 7.4c in bucket.

California Delta Farms, Stockton, submitted low bid on part 11, at 6.6c yd. in borrow pit or in bucket.
E. T. Fisher, Burlingame, apparently submitted low bid on dragline excavating, (approx. 863,600 yds) at 7.3c yd. in borrow pit or bucket for parts A and B. The bid on part D was 15c.

MEASURED IN BORROW PITS MEASURED IN BORROW PITS

- (1) Part 1—1,827,000 cu. yds. dredging;
 - (2) Part 2—325,400 cu. yds. dredging;
 - (3) Part 3—464,000 cu. yds. dredging.
- MEASURED BY THE BUCKET**
(4) Part 1—1,827,000 cu. yds. dredging;
- (5) Part 2—325,400 cu. yds. dredging;
- (6) Part 3—464,000 cu. yds. dredging.

Franks Contracting Co.—(1) 9.8c, (2) 7.2c, 6.8c.
Calif. Delta Farms, Belding Bldg., Stockton (low on 2)—(2) 6.6c, (5) 6.6c.
Olympic Dredging Co., San Francisco—(1) 4.7c, (6) 6.8c.

Engineer's estimate—(1) 11.7c, (2) 9.3c, (3) 9.3c, (4) 15.1c, (5) 11.9c, (6) 11.9c.
Part 1—From Mormon Channel to Turners Cut and cut-off across McDonald Tract; part 2, from Turner Cut to west side of Spud Island, and part 3, from McDonald Tract to near Camp 8, Venice Island.

DRAGLINE EXCAVATION

(1) If awarded only part one of the work. Bids were taken on the following items:

- (A) Per cu. yd. measured in borrow pits. See A;
- (B) Per cu. yd. measured in buckets. See B.

John Phillips, San Francisco—(A) 8c, (B) 8c.

Paris Bros., Berkeley—(A) 13c, (B) 13c.

Delta Dredging Co.—(A) 13c, (B) 16c.

Schwitzer Bros., L. A.—(A) 14.8c, (B) 14.8c.

Engineer's estimate—(A) 11.7c, (B) 15.1c.

(2) If awarded only part two of the work. Bids were taken on the following items:

- (A) Per cu. yd. measured in borrow pits. See B.
- (B) Per cu. yd. measured in buckets. See B.

John Phillips, San Francisco—(A) 12c, (B) 12c.

Paris Bros., Berkeley—(A) 13c, (B) 13c.

Delta Dredging Co.—(A) 12c, (B) 15c.

Schweltzer Bros., L. A.—(A) 15.1c, (B) 15.1c.
 Engineer's estimate—(A) 12.6c, (B) 16.4c.

(3) If awarded only part three of the work. Bids were taken on the following items:

(A) Per cu. yd. measured in borrow pits, Sec. C;

(B) Per cu. yd. measured in borrow pits, Sec. D;

(C) Per cu. yd. measured in buckets, Sec. C;

(D) Per cu. yd. measured in buckets, Sec. D.

Parls Bros., 2415 Oregon St., Berkeley (low)—(A) 13c, (B) 13c, (C) 13c, (D) 13c.

Delta Dredging Co.—(A) 12c, (B) 15c, (C) 12c, (D) 15c.

Engineer's estimate—(A) 13.1c, (B) 17.1c, (C) 13.6c, (D) 17.7c.

(4) If awarded only parts one and two of the work. Bids were taken on the following items:

(A) Per cu. yd. measured in borrow pits, Sec. A;

(B) Per cu. yd. measured in borrow pits, Sec. B;

(C) Per cu. yd. measured in buckets, Sec. A;

(D) Per cu. yd. measured in buckets, Sec. B.

E. T. Fisher, 2520 Hale Dr., Burlingame (low)—(A) 7.3c, (B) 7.3c, (C) 7.3c, (D) 7.3c.

John Phillips, San Francisco—(A) 8c, (B) 12c, (C) 8c, (D) 12c.

Parls Bros., Berkeley—(A) 13c, (B) 13c, (C) 13c, (D) 13c.

Delta Dredg. Co.—(A) 12c, (B) 11c, (C) 15c, (D) 13.75c.

Schweltzer Bros., L. A.—(A) 14.8c, (B) 15.1c, (C) 14.8c, (D) 15.1c.

(5) If awarded only parts two and three of the work. Bids were taken on the following items:

(A) Per cu. yd. measured in borrow pits, Sec. B;

(B) Per cu. yd. measured in borrow pits, Sec. D;

(C) Per cu. yd. measured in borrow pits, Sec. C;

(D) Per cu. yd. measured in buckets, Sec. B;

(E) Per cu. yd. measured in buckets, Sec. C;

(F) Per cu. yd. measured in buckets, Sec. D.

E. T. Fisher, 2520 Hale Dr., Burlingame, (A) \$.073, (C) 15c, (D) \$.073, (F) 15c.

John Phillips, San Francisco, (A) 12c, (B) 35c, (C) 35c, (D) 12c, (E) 35c, (F) 35c.

Parls Bros., Berkeley, (A) 13c, (B) 13c, (C) 13c, (D) 13c, (E) 13c, (F) 13c.

Delta Dredging Co., (A) 11c, (B) 11c, (C) 11c, (D) \$.1375, (E) \$.1375, (F) \$.1375.

(6) If awarded only parts one and three of the work. Bids were taken on the following items:

(A) Per cu. yd. measured in borrow pits, Sec. A;

(B) Per cu. yd. measured in borrow pits, Sec. A;

(C) Per cu. yd. measured in borrow pits, Sec. D;

(D) Per cu. yd. measured in buckets, Sec. A;

(E) Per cu. yd. measured in buckets, Sec. A;

(F) Per cu. yd. measured in buckets, Sec. D.

E. T. Fisher, 2520 Hale Dr., Burlingame, (A) \$.073, (C) 15c, (D) \$.073, (F) 15c.

John Phillips, San Francisco, (A) 8c, (B) 35c, (C) 35c, (D) 8c, (E) 35c, (F) 35c.

Parls Bros., Berkeley, (A) 13c, (B) 13c, (C) 13c, (D) 13c, (E) 13c, (F) 13c.

Delta Dredging Co., (A) \$.119, (B) \$.104, (C) 12c, (D) 16c, (E) 15c, (F) 15c.

(7) If awarded entire project, parts one, two and three of the work. Bids were taken on:

(A) Per cu. yd. measured in borrow pits, Sec. A;

(B) Per cu. yd. measured in borrow pits, Sec. B;

(C) Per cu. yd. measured in borrow pits, Sec. C;

(D) Per cu. yd. measured in borrow pits, Sec. D;

(E) Per cu. yd. measured in buckets, Sec. A;

(F) Per cu. yd. measured in buckets, Sec. B;

(G) Per cu. yd. measured in buckets, Sec. C;

(H) Per cu. yd. measured in buckets, Sec. D.

E. T. Fisher, Berkeley, (A) \$.073, (B) \$.073, (C) \$.073, (D) \$.073, (E) \$.073, (F) \$.073, (H) \$.073.

John Phillips, S. F., (A) 8c, (B) 12c, (C) 35c, (D) 8c, (E) 12c, (F) 35c, (H) 35c.

Lewis Constr. Co., L. A., (A) 8c, (B) 15c, (C) 12c, (D) 20c, (E) 8c, (F) 15c, (G) 12c, (H) 20c.

Parls Bros., Berkeley, (A) \$.1249, (B) \$.1249, (C) \$.1249, (D) \$.1249, (E) \$.1249, (F) \$.1249, (G) \$.1249, (H) \$.1249.

Delta Dredging Co., (A) \$.119, (B) \$.104, (C) \$.104, (D) \$.104, (E) 15c, (F) 13c, (G) 13c, (H) 13c.

Work involves:

Part One (Sec. A), 478,800 cu. yd.

Part Two (Sec. B), 268,700 cu. yd.

Part Three (Sec. C), 50,000 cu. yd.

Part Three (Sec. D), 66,100 cu. yd.

TURLOCK, Stanislaus Co., Calif.—

Carlson Bros., Turlock, at \$.0585 sq. ft. awarded contract by Turlock Irrigation District for 467,625 sq. ft. 2-inch concrete canal lining in various sections of the district under schedules Nos. 5, 6, 7, 8, 9 and 11.

Ed. Erickson, Turlock, at \$.059 sq. ft. awarded contract for 73,400 sq. ft. under schedule No. 1 and at \$.06 sq. ft. for 140,515 sq. ft. under schedule Nos. 3 and 4 and at \$.07 sq. ft. for 37,760 sq. ft. under schedule No. 12.

IRRIGATION PROJECTS

LINDEN, San Joaquin Co., Cal.—

Linden Irrigation District will call election at once to vote bonds of \$105,000 to finance construction of irrigation works. The district will divert water from the Calaveras river.

STREET LIGHTING SYSTEMS

OAKLAND, Cal.—Until September 11, 12 noon, bids will be received by Frank C. Merritt, city clerk, to install ornamental street lighting system in East 12th St., bet. Lake Shore Ave. and 13th Ave., involving 77 ornamental duplex standards together with underground system. 1911 Act. Certified check 10% payable to city required with bid. Plans on file in office of city clerk. Walter N. Frickstad, city engineer.

OAKLAND, Cal.—Butte Electric and Manufacturing Co., 956 Folsom St., San Francisco, at \$2200 awarded contract by city council to install lighting system in 38th Ave., bet. Allendale Ave. and Liese Ave., involving 21 single-light standards together with underground system.

REDWOOD CITY, San Mateo Co., Cal.—City council declares intention (M-14) to install ornamental street lighting system, 17 2-light standards, in Broadway between El Camino Real and Brewster ave., etc., together with underground system. Union Metal Design No. 8092. 1911 Act, Bond Act 1915. Hearing September 15. B. E. Myers, city clerk. C. L. Dimmitt, city engineer.

MACHINERY AND EQUIPMENT

OAKLAND, Cal.—Following bids taken under advisement by East Bay Municipal District to furnish portable electric arc welder and equipment:

Jenison Machinery Co., San Francisco; for Wilson Welder, P-20 Continental Red Steel motor, \$1004.00.

Schramm, Inc., San Francisco, for Lincoln Welder, 300 Amp. Buda 4"x 5 1/4" Engine, \$1319.75 or \$1419.75.

Hobart Bros. Co., by Chas. S. Jorges, Berkeley, for Hobart Constant Arc Welder, Waukasha Engine, \$1073.50 or \$1052.03.

Edward R. Bacon Co., San Francisco for Schramm Portable Engine Driven Welder, \$1319.75.

H. B. Squires Co., San Francisco, for Electric Arc Cutting and Welding Co. Welder, Continental Motor, \$1025.00 or \$1075.00.

Fusion Welding Corp., San Francisco Fusion Welder, Fuda or Continental motor, \$1297.90, \$1271.94, \$1537.90 or \$1507.14.

Victor Welding Equip. Co., S. F., Lincoln Welder, \$1636.30, \$1603.57, \$12-24.30 or \$1199.81.

Brown Bros. Welding Co., S. F., General Electric Welder, Buda Hivelo Engine \$1160.00.

Edgar R. Chinnberg, San Francisco, U. S. L. Electric Arc Welder, 225 Amp. Hercules Engine, \$1287.45 or \$1261.70.

Lincoln Elect. Co., San Francisco, Lincoln Stable Arc Welder, \$1623.65 or \$1209.65.

ROSEDALE, Kern Co., Cal.—Until September 12, 7:30 P. M., bids will be received by Reginald T. Waters, Clerk, Rosedale School District to furnish one school bus complete. Specifications obtainable from clerk.

MARTINEZ, Contra Costa Co., Cal.—J. P. DeRose, Martinez, at \$995 awarded contract by city council to furnish Chevrolet motor truck for street cleaning department. Durant Motor Co., Oakland, only other bidder at \$1300.

PASADENA, Los Angeles Co., Cal.—Whiting Corp. submitted low bid to the city directors at \$25,720 to furnish one electrically operated crane with one 100-ton hoist, one 15-ton hoist, and one 2-ton hoist, delivered, unloaded, completely erected and tested to the satisfaction of the city.

FIRE ALARM SYSTEMS

WATSONVILLE, Santa Cruz Co., Cal.—Until September 10, 7:30 P. M., bids will be received by M. M. Swisher, city clerk, to furnish 40 ft. of 2 1/2-inch fire hose, coupled in 50 ft. sections with bronze couplings.

See call for bids under official proposal section in this issue.

HUNTINGTON PARK, Cal.—Until September 15, 8 p. m., bids will be received by W. P. Mahood, city clerk, to furnish one city service ladder truck. Certified check or bond 10 per cent required with bid. Specifications on file in office of clerk.

RESERVOIRS AND DAMS

IRVINE, Orange Co., Cal.—Irvine, owner of the Irvine Ranch, has announced that the Irvine Co. will start work this fall on construction of two dams in accordance with plans prepared by C. Roy Browning, consulting engineer. The larger of the two dams will be located within 1000 ft. of tide water at the head of upper Newport Bay. It will be 35.5 ft. high and will

provide a storage lake 2 miles in length, impounding 12,000 acre feet of water below the spillway crest. Estimated cost, \$115,000. This structure will be known as the San Juan Rancho conservation dam. The second dam will be located in Peters Canyon near the old Santiago Golf Club. It will impound 1000 acre feet of water. It will cost \$40,000. Pumping plants and conduits to be built in connection with the dams will cost about \$140,000. The total crest length of the larger dam will be 1800 ft. between the hills. At the highest point in the dam it will be 280 ft. thick at the base. It will be constructed by the rolled earth fill process with five to one and four to one slopes, and when completed will resemble a flat hill extending across the valley. The spillway will be of the Ogee type, with a concrete channel to the marsh, discharging about 250 ft. below the lower toe of the dam. The capacity of the spillway at maximum flood stage will be 6000 second foot or 12,000 acre feet in 24 hours. Besides this amount, the area above the spillway crest will act as a restraining basin and will have a capacity of 7000 acre feet.

LOS ANGELES, Cal.—Continental Diamond Drilling Co., Pacific National Bank Bldg, awarded contract by city purchasing agent, at \$12,650 (with estimate of additional sum of \$4030 for drilling over 3000 ft.) for core drilling on Route B, Mono Basin, Spec. 2148, for water and power department.

SEWERS AND SEWAGE DISPOSAL PLANTS

MOUNTAIN VIEW, Santa Clara Co., Cal.—Dudley DeVelbiss, 354 Hobart St., Oakland, at \$624 awarded contract by city trustees to construct sewage pumping plant with cast iron discharge main emptying into Mountain View Slough. Involving: 530 cu. yds. excavation; 3700 cu. ft. concrete; 11,700 lbs. reinforcing steel; two sewage pumping plants, including pumps, motors, etc.; 340 ft. 12-in. cast iron pipe pressure line; 700 ft. B. M. redwood timber; galvanized iron pump hose, wiring, etc.

Contractor is in the market for sub-bids in connection with this project.

BERKELEY, Alameda Co., Cal.—W. J. Tobin, 527 Santa Ray ave., Berkeley, at \$2349 submitted low bid to city council, to construct sewer in Hilldale ave., and in right of way from Hilldale ave. to Euclid ave., about 300 ft. south of Marin ave. Complete list of bids, all taken under advisement, follows:

W. J. Tobin.....	\$2349
Martin Murphy.....	2727
Jas. Chick.....	3469
J. C. Hickey.....	3648
Thos. Haefey.....	4849
Haefey-Moore Co.....	4015

PHOENIX, Ariz.—Bids will be asked about October 1 by the city council to construct sewage disposal plant; estimated cost 250,000. Holmquist and Maddock, Phoenix, consulting engineers.

SAN FRANCISCO.—Healy - Tibbetts Co., 64 Pine St., at \$128,433 submitted low bid to Board of Public Works to construct Section C of the Alameda Storm Drain to be financed from the Sewer Bond Issue. Project involves: 915 lin. ft. 2-compartment 8-ft. 6-in. x 11-ft. reinf. conc. storm drains exclusive of piles; 394 lin. ft. 2-ft. 6-in. x 3-ft. 9-in. reinf. conc. sewer exclusive of piles; 310 lin. ft. 8-in. V. C. P. underdrain covered with concrete or embedded in broken rock; 620 lin. ft. 10-in. V.C.P. underdrain covered with concrete or embedded in broken rock;

500 lin. ft. 12-in. V. C. P. underdrain covered with concrete or embedded in broken rock; 8 manholes, complete, on concrete sewers; 138,000 lin. ft. of timber piling. Complete list of bids follows:

Healy-Tibbetts Co.....	\$128,433
Ward Engineering Co.....	131,312
C. C. W. and H. H. Haun.....	141,022
McDonald & Kahn.....	142,955
C. B. Eaton.....	145,217
C. J. Nystedt.....	149,387
C. L. Harney.....	159,350
E. J. Treacy.....	160,732
L. J. Cohn.....	160,805

SAN FRANCISCO.—C. B. Eaton, 715 Ocean Ave., at \$41,970 submitted low bid to Board of Public Works to construct Section D of the Alameda Storm Drain, to be financed from the Sewer Bond Issue. Project involves: 16,200 lin. ft. timber piling; 1195 lin. ft. 14-ft. by 8-ft. wooden box sewer excluding piling; 600 lin. ft. timber center partitions; 236 lin. ft. 3-ft. x 4-ft. 6-in. wood box sewer excluding piles; 188 lin. ft. 12-in. V. C. P. sewer; 125 lin. ft. 10-in. V.C.P. culvert; 4 timber manholes; 3 side connection pipes; 1 connection from 14-ft. by 8-ft. box section to 2-compartment concrete section. Complete list of bids follows:

C. B. Eaton.....	\$41,970
Healy-Tibbetts Co.....	51,703
M. B. McGowan.....	51,774
Meyer Rosenberg.....	52,819
McDonald & Kahn.....	54,156
C. C. W. and H. H. Haun.....	56,918
C. J. Nystedt.....	57,953

BERKELEY, Alameda Co., Cal.—W. J. Tobin, 527 Santa Ray Ave., Berkeley, at \$2349 awarded contract by city council, to construct sewer in Hilldale Ave., and in right of way from Hilldale Ave. to Euclid Ave., about 300 ft. south of Marin Ave.

WATER WORKS

OAKLAND, Cal.—Until September 24, bids will be received by East Bay Municipal Utility District, 512 16th St., to furnish approximately 2022 tons of cast iron pipe, ranging from 4-in. to 16-in. diameter; bell and spigot, in the following quantities: 150 tons of Class "B" 4-in. diameter, 15,000 lin. ft. of Class 150 of 4-inch 404 tons Class "B" 8-in. diameter

—or—
616 tons of Class "B" of 12-inch diameter,

35,600 lin. ft. of Class 250 6-inch diameter.

17,000 lin. ft. of Class 250 8-inch diameter.

—and—
406 tons of Class "B" 6-in. diameter diameter,
437 tons of Class "B" 16-inch diameter.

Specifications obtainable from above office.

SAN FRANCISCO, Cal.—Kimbball Krough Pump Co., 147 Beale St., at \$2,674, awarded contract by B. P. Lamb, secretary, Park Commission, Park Lodge, Golden Gate Park, to install deep well turbine and motor near the Murphy Windmill in Golden Gate Park.

SAN FRANCISCO. — Industrial & Municipal Supply Co., 7 Front Street, at \$2,235 awarded contract by B. P. Lamb, secretary, Park Commission, Park Lodge, Golden Gate Park, to furnish and install two deep well turbines and motors at Sharp Park in San Mateo County.

SAN LUIS OBISPO, S. L. O. Co., Cal.—See "Power Plants" this issue. Ranchers to install electrified pumping and irrigation systems.

PHOENIX, Ariz.—Bids will be asked by city council about October 1 to construct water distributing system, drilling additional wells and constructing 48-inch supply line and 10,000,000-gal reservoir. W. J. Jamieson, city engineer.

PLAYGROUNDS & PARKS

STOCKTON, San Joaquin Co., Cal. City Landscape Architect Victor G. Anderson has completed plans for a roadway leading through Victory Park to the proposed Haggin Memorial Gallery and Museum. Plans will include an artistic bridge over the lagoon for the Pershing Avenue approach.

SAN DIEGO, Cal.—City defends proposal to issue bonds for \$435,000 to finance purchase and improvement of four public park areas.

STREETS AND HIGHWAYS

OAKLAND, Cal.—Until September 11, 12 noon, bids will be received by Frank C. Merritt, city clerk, to improve portions of Hermosa Ave. and Broadway Terrace, involving grading; concrete sidewalks; curbs, gutters, conduits and storm water inlets; sewer with appurtenances; wooden culvert; Imp. Act 1913. Certified check 10% payable to city required with bid. Plans on file in office of clerk, Walter N. Frickstadt, city engineer.

MILL VALLEY, Marin Co., Cal.—Until September 10, 8 P. M., bids will be received by Will Falley, town clerk (755), to improve portions of Summit Ave. and other streets involving vitrified pipe sewer; hydraulic concrete manholes; lampholes; wye branches and lateral; hydraulic concrete retaining wall; arch culverts; hydraulic conduit inlet. Project involves approximately 250,000 sq. ft. of hydraulic concrete pavement. Previous bids, providing for asph. conc. pavement were rejected and new proceedings started for the improvement. Est. cost, \$90,000; 1911 Act; Bond Act 1915. Certified check 10% payable to town clerk required with bid. Plans on file in office of clerk.

MARICOPA, Kern Co., Cal.—Until September 9, (to be opened Sept. 10, 7 P. M.), bids will be received by C. B. Warner, clerk, Maricopa High School District, for furnishing light dust-laying oil and apply same at school grounds. Specifications obtainable from above.

PALETO, Kern Co., Cal.—Until September 9, (to be opened September 10, 7 P. M.) bids will be received by C. B. Warner, clerk, Paleto Elementary School District, to furnish and apply light dust-laying oil at school grounds. Specifications obtainable from above.

SAN MATEO COUNTY, Cal.—Until September 24, 2 P. M., bids will be received by State Highway Commission to grade and pave with Portland cement concrete, 0.9 mile through South San Francisco.

See call for bids under official proposal section in this issue.

REDDING, Shasta Co., Cal.—W. C. Colley, 35 North Hampton St., Berkeley, at \$51,684.59 awarded contract by directors of Joint Highway District No. 11 to construct the Weed-Klamath road project (1st unit), comprising Section from Station 0 to 60 to 142 plus 15. Project involves: 9.8 acres clearing; 5144 cu. yds. trenching, excavation; 113 cu. yds. unclass. excavation for structures; 21,883 sta. yds. overhaul; 2.8 miles final earth graded road; 8.52 cu. yds. class C concrete, 91 lbs. reinforcing steel, 582 lin. ft. 18-in. G. C. M. P.

EL DORADO COUNTY, Cal.—Until September 24, 2 P. M., bids will be received by State Highway Commission to grade and surface with untreated crushed gravel or stone, 1.7 miles between Clark's Corner and L'Acerville.

See call for bids under official proposal section in this issue.

COLUMBIA COUNTY, Cal.—Until September 24, 2 P. M., bids will be received by State Highway Commission to surface with gravel base, 8.1 miles between Williams and Maxwell.

See call for bids under official proposal section in this issue.

SAN FRANCISCO.—Until September 17, 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to construct Section D of the Sunset Boulevard from Noriega to Irving street with connections to Lincoln Way estimated cost \$123,000, to be financed from the the Boulevard Bond Issue. Project involves:

- (1) 133,600 cu. yds. excavation;
- (2) 61,700 cu. yds. imported borrow;
- (3) 192,900 sq. ft. asphalt macadam pavement, 2½-inch asphalt concrete surface on 10-inch waterbound macadam base.
- (4) 38,600 sq. ft. asphalt concrete pavement, 2-inch asphalt concrete surface and 6-inch class F concrete base;
- (5) 242 tons of asphalt concrete conform pavement;
- (6) 90,700 sq. ft. 4-inch waterbound macadam pavement;
- (7) 45,700 sq. ft. 6-inch waterbound macadam pavement;
- (8) 13,500 sq. ft. 1-course concrete sidewalks;
- (9) 13,400 linear feet unarmored concrete curb;
- (10) 470 linear feet 2x6-inch redwood header;
- (11) 240 linear feet 18-inch V. C. P. sewer;
- (12) 240 linear feet 15-inch V. C. P. sewer;
- (13) 120 linear feet 12-inch V. C. P. sewer;
- (14) 570 linear feet 10-inch V. C. P. sewer;
- (15) 5 brick manholes;
- (16) 650 linear feet 3-inch black pipe conduit;
- (17) 2,100 linear feet 1½-inch black pipe conduit;
- (18) 3 9-unit yellow reflectors mounted on 2½-inch standard wrought iron pipe posts;
- (19) 2 "Keep-to-the-right" signs;
- (20) 920 cu. yds. loam;
- (21) 1,860 cu. yds. rubble;
- (22) 3 tons of hay for slope protection.

Plans obtainable from Bureau of Engineering, 3rd floor, City Hall, on deposit of \$10, returnable. Work to be completed within 180 days.

TRINITY COUNTY, Cal.—Until September 24, 2 P. M., bids will be received by State Highway Commission to grade 0.8 mile between western boundary and Burnt Ranch.

See call for bids under official proposal section in this issue.

SAN JOSE, Santa Clara Co., Cal.—San Jose Paving Co., San Carlos and Dupont Sts., San Jose, awarded contract by city council (5135) to improve Julian St., bet. Stockton and Morrison Aves., involving grading; pave with 2-in. asphalt conc. wearing surface, 3½-in. asphalt conc. foundation; cem. conc. curbs, gutters and walks; 8-in. cem. storm water sewer. Imp. Act 1911.

EUREKA COUNTY, Nevada.—Until September 10, 2 P. M., bids will be received by State Highway Commission, Carson City, Nevada, to furnish asphaltic fuel oil, apply and mix with crushed rock or crushed gravel surface on a portion of the state highway from Hay Ranch to Eureka, a distance of 11.65 miles. Specifications on file at office of U. S. Bureau of Public Roads, 461 Market St., San Francisco, and obtainable from S. C. Durkee, state highway engineer at Carson City. Certified check 5% required with bid.

OAKLAND, Cal.—Until Sept. 25, 12 noon, bids will be received by Frank C. Merritt, city clerk, to improve portions of East 12th St., involving grading; curbs; gutters; pave; cem. walks; drainage structures. 1911 Act. City will pay \$16,734 of total cost from Treasury. Certified check 10% payable to city required with bid. Plans on file in office of clerk. Walter N. Frickstad, city engineer.

OAKLAND, Cal.—Until September 18, 12 noon, bids will be received by Frank C. Merritt, city clerk, to improve portions of Marguerite Drive and Hillview Lane, involving grading; gutters; pave; cement walks; conc. gutters; storm water drain. 1911 Act. Certified check 10 per cent payable to city required with bid. Plans on file in office of clerk. Walter N. Frickstad, city engineer.

SAN FRANCISCO.—Until September 17, 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to improve 25th street bet. Fountain and Burnham streets, including crossing at Fountain street, involving grading; armored concrete curbs; 1-course concrete sidewalks; br. catchbasins; 12-in. vit. pipe sewers; vit. clay pipe side sewers; 6-in. Class E conc. pavement with 2-in. asphalt conc. surface and 6-in. Class F base pavement at crossing. Est. cost, \$4400. Certified check 10% payable to Clerk of the

Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall.

BUTTE COUNTY, Cal.—Until September 15, 2 P. M., bids will be received by C. H. Whitmore, district engineer, State Highway Commission, 502 State Office Bldg., Sacramento, for 5.0-miles of pit run gravel borders between north city limits of Chico and north county boundary.

BUTTE COUNTY, Cal.—Until September 15, 2 P. M., bids will be received by C. H. Whitmore, district engineer, State Highway Commission, 502 State Office Bldg., Sacramento, for 5.0 miles of pit run gravel borders between north city limits of Chico and north county boundary.

COLUMBIA COUNTY, Cal.—Until September 15, 2 P. M., bids will be received by C. H. Whitmore, district engineer, State Highway Commission, 502 State Office Bldg., Sacramento, for 5.0 miles of pit run gravel borders between 1 mile south of Arbuckle and Geneva.

YOLO COUNTY, Cal.—Until September 15, 2 P. M., bids will be received by C. H. Whitmore, district engineer, State Highway Commission, 502 State Office Bldg., Sacramento, for 5.0 miles of pit run gravel borders between Cache Creek and Zamora.

LIVERMORE, Alameda Co., Cal.—Until September 6, 11 A. M., bids will be received by Dr. C. W. Mack, Clerk, Livermore Union High School District, to haul earth from new plant of the Kaiser Paving Company near Pleasanton to the high school grounds. Specifications obtainable from clerk.

SEBASTOPOL, Sonoma Co., Cal.—City council declares intention (185a) to improve High street bet. Calder and Maple aves., and bet. Maple and Palm aves., and Palm and McFarlane aves., involving grading; 5-inch cement concrete pavement; cement curbs. 1911 Act, Bond Act 1915. Hearing Sept. 17. F. G. McFarlane, city clerk.

OAKLAND, Cal.—Until September 11, 12 noon, bids will be received by Frank C. Merritt, city clerk, to improve portions of Bullard Drive, involving grading; curbs; gutters and pave. 1911 Act. Certified check 10% payable to city required with bid. Plans on file in office of clerk. Walter N. Frickstad, city engineer.

LINCOLN COUNTY, Nevada.—G. M. Duntley, 534 Molino St., Los Angeles, awarded contract by State highway department at \$6674.47 for furnishing asphalt fuel oil and applying to crushed rock or crushed gravel surface from Caliente to 20 miles north; 19.94 mi. Engineer's est. \$8301.02.

SAN LUIS OBISPO COUNTY, Cal.—Hartman Construction Co., Bakersfield, at \$6,277.40 awarded contract by State Highway Commission to furnish and apply heavy fuel oil on 9.4-miles between Paso Robles and Atascadero, involving 9.4-miles, prepare shoulders and mixing after application of oil and 2110 bbls. heavy fuel oil in place.

SAN JOSE, Santa Clara Co., Cal.—Union Paving Co., Call Bldg., San Francisco, at \$14,748 awarded contract by county supervisors to improve North Tenth street in Supervisor District No. 2. Complete list of bids follows:

Union Paving Co.	\$14,748
A. J. Raich	14,750
San Jose Paving Co.	15,265
Surveyor's estimate	18,165

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SAN DIEGO COUNTY, Cal.—Leonard C. Pulley, 1960 Alamitos Ave., Long Beach, at \$13,366 (\$2.37 hbl), awarded contract by State Highway Commission to furnish and apply heavy fuel oil on 8.4-miles between La Posta and Tecate Divide.

SAN JOSE, Santa Clara Co., Cal.—Until September 8, 8 P. M. bids will be received by John J. Lynch, city clerk (5149), to improve Elm street, between Ville and McKendrie streets, involving grading; 1 1/2-in. asphaltic concrete wearing surface; 2 1/2-in. asphaltic concrete, gutters, walks; 268.50 feet of 6-in. vitrified pipe sanitary sewers; brick manhole; 4-in. vitrified pipe sewer lateral; 2 sanitary flushing inlets. Bond Act 1911. Certified check 10% payable to city required with bid. Plans on file in office of clerk. Wm. Popp, city engineer.

OAKLAND, Cal.—County supervisors have provided \$50,000 in a tentative budget to finance extension of Bancroft ave. from east San Leandro City Limits to East Fourteenth street, affording another highway to relieve traffic congestion along E 14th St. and the Foothill Blvd. Geo. A. Posey is county surveyor.

OROVILLE, Butte Co., Cal.—No bids received by county supervisors for maintenance of county roads during the current fiscal year. Work will be done by county forces under the supervision of County Road Engineer J. A. Baumgarner.

WATSONVILLE, Santa Cruz Co., Cal.—Granite Construction Co., Watsonville, awarded contract by city council to improve (a) Madison street between California and Prospect streets and (b) Lincoln St. bet. Third and Bridge Sts. Unit bids follow:

(1) Granite Construction Co., Watsonville.	
(2) W. A. Dontanville, Salinas.	
Madison St.	
Conc. curb	(1) 25c
Oil pave.	159c
Grading	2c
Lincoln St.	
Conc. curb	65c
Conc. gutters	25c
Oil Pave.	159c
Grading	1.5c

SUNNYSVALE, Santa Clara Co., Cal. City declares intention (335) to improve portions of Sunset Ave., Muenner Ave., etc., involving construction of cement concrete curbs and side-walks and driveways. 1911 Act. Bond Act 1915. Hearing September 15. Ida Trubscheck, city clerk.

OAKLAND, Cal.—Oakland Paving Co., 5000 Broadway, at \$2369 submitted low bid to the City Port Commission to grade and pave with oil macadam the roadway at the foot of 14th st. Other bids, all taken under advisement, were: Lee J. Immel, Berkeley, \$3180; Hutchinson Co., Oakland, \$3180; Heafey-Moore, Oakland, \$3717; Lake Construction Co., Oakland, \$4695.

BERKELEY, Alameda Co., Calif.—Following bids received by Regents of the University of California to construct cross campus road on grounds of the university.

Oakland Paving Co., 5000 Broadway, Oakland, \$19,300
Central California Roads, Oakland, \$20,152

Heafey Moore Co., Oakland, \$21,300.
Hutchinson Co., Oakland, \$22,641.

Bids held under advisement until Sept. 10th.

SAN FRANCISCO.—Meyer Rosenberg, 1755 San Bruno Ave., at \$33,766 submitted low bid to Board of Public Works to improve, under Contract No. 21, Section B of Sunset Blvd. between Santiago Ave. and Yorba St., estimated cost, \$90,000. This project will consist of grading and paving that section of the boulevard lying between 36th and 37th Aves. from Santiago Ave. to Sloat Blvd., involving in the main 84,000 cu. yds. of excavation and 92,000 sq. ft. of asphalt macadam pave. There will be provision for two 30-ft. roadways, two 15-ft. pedestrian walks and one 15-ft. equestrian drive. Complete list of bids follows:

Meyer Rosenberg.....	\$33,766
C. B. Eaton.....	86,695
Chas. L. Harney.....	88,971
California Const. Co.....	92,889
Sibley Grading & Teaming Co.....	92,890
J. P. Holland.....	95,213
Granfield, Farrar & Carlin.....	95,213
Fay Improvement Co.....	95,313

OAKLAND, Cal.—Until September 8, 4:30 p. m., bids will be received by G. B. Hegardt, secretary, City Port Commission, 424 Oakland Bank Bldg., for surface pavement on apron wharf at Ninth Avenue Pier. Specifications obtainable from above office.

SAN FRANCISCO.—City Engineer O'Shaughnessy has requested the supervisors to provide an annual appropriation of \$400,000 for four years to meet the city's obligations under the Raker Act in the construction of roads and trails in the Yosemite National Park. It was also recommended that the city endeavor to reach an agreement with the park authorities as to the definite requirements. This was urged in connection with a report that the Park Service had submitted plans and specifications for the Mather-Smith Peak-White Wolf road, 17.04 miles in length, estimated to cost \$861,356.

HOLLISTER, San Benito Co., Cal.—Granite Construction Co., Watsonville, at \$16,545.43 awarded contract by county supervisors to improve Bolsa Road in Supervisor District No. 1; Lucy Brown Lane in Supervisor District No. 2 and the Hamilton Road, South Side Road, Hollister and Bird Creek Road and Riverside Ave. in Supervisor District No. 3, in all, approximately 1.8 miles, involving graveling and oiling.

SAN JOSE, Santa Clara Co., Cal.—A. J. Ralsch, 46 Kearny st., San Francisco, at \$20,934 awarded contract by county supervisors to improve Locust st., Vine st., Lick ave., Alma ave., and San Jose-Almaden rd. Complete list of bids follows:

A. J. Ralsch.....	\$20,934
Union Paving Co.....	23,333
San Jose Paving Co.....	27,127
Surveyor's estimate	24,800

SAN MATEO COUNTY, Cal.—Following bids received September 3 by State Highway Commission to grade 4.1 miles between Redwood City and Willow Road:

Hauslich Bros. Construction Co., Torrance.....	\$3,416
J. F. Knapp, Oakland.....	36,126
Meyer Bros., San Francisco.....	58,263
Fredrickson & Watson & Fredrickson Bros., Oakland.....	109,563
Granfield Farrar & Carlin, San Francisco.....	104,738
D. McDonald, Sacramento.....	131,589
J. P. Holland, Inc., San Francisco.....	169,782

Bids held under advisement.

SAN FRANCISCO.—Chas. Harney, (Call Bldg., at \$11,992 submitted low bid to Board of Public Works to improve 17th Ave. bet. Moraga and Noriega Sts., involving grading; concrete curb and walks; 8-in. and 12-in. vit. pipe sewers with manholes; side sewers and yew branches; br. catchbasin; 6-in. class F conc. base pavement with 2-in. asphalt conc. surface. Complete list of bids follows:

C. L. Harney.....	\$11,992
C. B. Eaton.....	12,166
P. J. McHugh.....	12,612
A. G. Ralsch.....	12,672
E. J. Treacy.....	12,677
Fay Improvement Co.....	13,255
L. J. Gallagher.....	15,393

SAN JOSE, Santa Clara Co., Cal.—Until September 17, 11 a. m., bids will be received by Henry A. Pfister, county clerk, to improve Peach Court and Bonita Ave., in Supervisor District No. 3. Plans on file in office of clerk. Robert Chandler, county surveyor.

SAN JOSE, Santa Clara Co., Cal.—Until September 17, 11 a. m., bids will be received by Henry A. Pfister, county clerk, to improve Monterey street in the city of Gilroy and the roadway approaches of the Hecker Highway bridge over the Uvas Creek in Supervisor District No. 1. Plans on file in office of clerk. Robert Chandler, county surveyor.

BERKELEY, Alameda Co., Cal.—City Council declares intention (652) to construct concrete walk and steps with concrete buttresses and pipe railings in east side of Euclid Ave., near Hildale Ave. 1911 Act. Hearing September 16. Florence E. Turner, city clerk.

COLUSA COUNTY, Cal.—As previously reported, bids will be received September 24, by State Highway Commission to surface with gravel base, 8.1 miles between Williams and Maxwell Project involves 71,000 cu. yds. gravel base.

CONTRACTORS' MACHINE WORKS

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Bunkers, Hoppers, Chuting, Conveyors, Rollers, Mixers, Hoists, Shovels, Tractors, Pavers, Crushers, Drag Lines, Elevators, Car Unloaders, and other Road and Building Equipments;

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San Francisco

SAN FRANCISCO.—Eaton and Smith, 725 Ocean ave., at 11½¢ sq. ft. submitted low bid to State Board of Harbor Commissioners for laying approximately 10,800 square feet of basalt block paving on loading platform of Sea Wall Lot 11, between Green and Union Sts. Harbor Commission will furnish basalt block at sea wall Lot 26 at Berry St., and will grade the sub-base to within about 12 inches of grade and set the headers along each side. Contractor to furnish and place sand cushions and haul and lay blocks. Other bids: A. J. Ralsch, 16½¢; C. L. Harney, 25¢.

MARTINEZ, Contra Costa Co., Cal.—No bids received by county supervisors for concrete paving in Willow St., Crockett, and the work will be done by force account under the supervision of County Surveyor Ralph R. Arnold; estimated cost \$6500.

SAN RAFAEL, Marin Co., Cal.—Until September 13, 10 a. m., bids will be received by Eugene W. Smith, city clerk, (4325) to improve Mission Ave. from Alice St. westerly, and Belle Ave. bet. Alice and Mission Aves. Project involves:

- (1) 800 cu. yds. excavation;
- (2) 23,258 sq. ft. 4-in. rock sub-base;
- (3) 23,258 sq. ft. 5-in. hydraulic concrete pavement;
- (4) 1,604 lin. ft. conc. curb and gutter;
- (5) 164 lin. ft. 4-in. I. S. pipe side-sewers;
- (6) 10 cu. yds. shallow sewer protection;
- (7) 2 manholes with c. i. frames & covers;
- (8) 28 lin. ft. 10-in. C. I. pipe;
- (9) 116 lin. ft. 12-in. do.;
- (10) 4 standard catchbasins.

1911 Act, Bond Act 1915. Certified check 10% payable to city required with bid. Herbert K. Brainerd, city manager. Plans on file in office of city clerk.

TRINITY COUNTY, Cal.—As previously reported, bids will be received September 24 by State Highway Commission to grade 0.8 miles between west boundary and Burnt Ranch. Project involves: 56,200 cu. yds. rdwy. excav. without class; 12,500 station yards overhaul; 800 cu. yds. struct. excav.; 127 cu. yds. rubble masonry; 156 lin. ft. 18-in., 46 lin. ft. 24-in.; 54 lin. ft. 54-in., 110 lin. ft. 60-in. and 72 lin. ft. 84-in. corr. metal pipe; 40 stations finish rdwy.; 58 monuments. State will fur. corr. metal pipe.

PACIFIC GROVE, Monterey Co., Cal.—City council abandons proceedings under Resolution of Intention (2325) to improve 3rd, 5th, 7th, 8th, 9th and 10th sts., between Ocean View ave. and Lighthouse and 4th and 6th sts. between Central and Lighthouse aves., involving cement concrete gutters with integral curbs and oiled macadam surface, using "Duremulse" emulsified asphalt; (surfacing to be laid on a 4-inch crushed rock base). New proceedings will be started, specifying another type of pavement.

EL DORADO COUNTY, Cal.—As previously reported, bids will be received September 24 by State Highway Commission to grade and stone with untreated crushed gravel or stone, 1.7 miles between Clarks Corner and Placerville. Project involves: 17 acres clearing and grubbing right of way; 90,000 cu. yds. rdwy. excav. without class; 129,000 sta. yds. overhaul; 2600 cu. yds. struct. excav.; 9500 tons untreated crushed gravel or stone surfacing; 290 cu. yds. Class A cem. con.

(struct.); 5 cu. yds. Class B cem. con. (rallings); 300 lbs. bronze plates; 39,300 lbs. bar reinforced steel (structure); 202 lineal feet 24-inch, 206 lin. ft. 12-in., 1114 lin. ft. 18-in. and 956 lin. ft. 36-in. corr. metal pipe; 114 lin. ft. 8-in. perforated metal pipe underdrains; 100 lin. ft. 6-in. wrought iron pipe; 1 each, move and reset headwalls; 470 cu. yds. removing and disposing of conc. in existing pave. and struct.; 1.9 miles new prop. fence; 1.1 miles move and reset prop. fence; 1650 lin. ft. removing and salvaging existing guard rail; 1250 cu. yds. light riprap; 150 cu. yds. hand placed stone fill; 120 cu. yds. rubble masonry retaining walls; 91 stations finish rdwy.; 53 monuments. State will fur. corr. metal pipe.

SAN FRANCISCO.—Bureau of Engineering, Department of Public Works, completes specifications to improve Grand View ave. bet. N. and S. intersections with Market st., involving:

- (1) 23,000 sq. ft. 1-course concrete sidewalk;
- (2) 72 cu. yds. Class "B" 2500-lb concrete in retaining walls;
- (3) 3600 lbs. bar reinforcing steel in place.

The cost is estimated at \$6000.

MARYSVILLE, Yuba Co., Cal.—Until September 11, 10 a. m., bids will be received by W. M. Strief, county clerk.

- (1) place a seal coat on road extending from Horstville to and across Wheatland, thence west to a point 1 mile east of the Bear River bridge;
- (2) place oil surface (road mix) on Main and Second streets in town of Wheatland.

Certified check 10 per cent payable to county clerk required with bid. Specifications obtainable from clerk on payment of \$1.00.

SAN RAFAEL, Marin Co., Cal.—Until September 13, 10 a. m., bids will be received by Eugene W. Smith, city clerk, (528) to improve Second St. bet. A and E Sts. Project involves:

- (1) 1,857 cu. yds. excavation;
- (2) 59,746 sq. ft. 5-inch hydraulic concrete pavement;
- (3) 59,746 sq. ft. 4-inch stone sub-base;
- (4) 2,096 lin. ft. concrete curb;
- (5) 409 lin. ft. conc. curb and gutter;
- (6) 258 lin. ft. 4-in. I. S. pipe sewer;
- (7) 42 lin. ft. 6-in. do.;
- (8) 70 lin. ft. 8-in. do.;
- (9) 90 lin. ft. 12-in. do.;
- (10) 1 standard manholes complete including frames and covers;
- (11) 30 cu. yds. shallow sewer protection;
- (12) 18 lin. ft. 10-in. C. I. pipe;
- (13) 34 lin. ft. 6x6x24-in. arch culvert, complete;
- (14) 224 lin. ft. 6x6x30-in. do.;
- (15) 324 lin. ft. 21-in. concrete pipe;
- (16) 1 standard gutter inlet with 18-sq. grating;
- (17) 1 special catchbasin.

1911 Act, Bond Act 1915. Certified check 10% payable to city council required with bid. Herbert K. Brainerd, city manager. Plans on file in office of city clerk.

SACRAMENTO, Cal.—County Engineer Chas. Deterding is completing specifications to improve the Sacramento River highway and Walnut Grove road. Bids will be asked shortly. For the Sacramento River highway project \$15,000 is available.

OROVILLE, Butte Co., Cal.—County supervisors appropriate \$68,300 for Deer Creek Highway Extension between Butte and Tehama counties.

The money will be available in the county road engineer's budget.

BUSINESS OPPORTUNITIES

SAN FRANCISCO.—Names and addresses of the individuals or firms concerned in these opportunities will be furnished on request to the Business Opportunity Department of Daily Pacific Builder, 545-547 Mission Street, Phone Garfield 8744.

29388—Representation. Barcelona, Spain. Party is desirous of representing local firms in Barcelona.

20389—French Purchasing Agency. Paris, France. Long established French purchasing agent, now representing several American firms in that capacity, is in a position to accept additional agencies of importers of French lines.

29392—Bricks. San Francisco, Calif. Party wishes to communicate with firms interested in importing bricks from Italy.

29395—Representation. Vienna, Austria. Import and export agent seeks representation of local firm for Austria.

29405—Japanese Wood Fiber. Claremore, Okla. Party opening new business requires Japanese wood fiber in large quantities.

29407—Used Automobiles. Kobe, Japan. Import-export concern desires to import used cars—particularly Buicks and Chevrolets, in sedans and open cars.

29408—Brazil Wood. San Francisco, Calif. Party wishes to contact importers of Brazil wood.

29412—Representation. Medellin, Colombia. Party is desirous of contacting anyone interested in having a representative in Medellin.

29416—Asbestos. Manila, P. I. Manufacturers of cooking ranges desire to get in touch with firms handling asbestos board in sheets with thickness of ½", ¾", 1", 1½", 2", 3", 4", 5", 6", 8", 10", 12", 14", 16", 18", 20", 22", 24", 26", 28", 30", 32", 34", 36", 38", 40", 42", 44", 46", 48", 50", 52", 54", 56", 58", 60", 62", 64", 66", 68", 70", 72", 74", 76", 78", 80", 82", 84", 86", 88", 90", 92", 94", 96", 98", 100".

29417—Mexican Hardwood Lump Charcoal. San Francisco, Calif. Large quantities of above commodity available for immediate or future shipments, packed in bags of even or uneven weights, or in bulk.

29418—Storage Batteries. San Luis Potosi, Mexico. Party desires to communicate with manufacturers of storage batteries.

29422—Machinery. Vancouver, B. C. Party wishes to communicate with manufacturers of machinery for washing and drying suitcases.

29423—Radio Sets, Etc. San Francisco, Calif. Manufacturers merchandisers offer for export radio sets, radio tubes, electro dynamic speakers, radio-phonograph pickup, aerial wires in rolls of 22,000 feet.

The Glo-Clox Co., (B. L. Stringer, general sales manager), 2108 Union Central Bldg., Cincinnati, Ohio, desires to secure specialty distributors in the San Francisco Bay district to market an electric inner-illuminated advertising clock.

ARC WELDING DATA

A new publication entitled, Automatic Arc Welding Data Bulletin No. 14, featuring automatic arc welding has been published by the Westinghouse Electric & Manufacturing Company. A number of automatic arc welding applications are described in this bulletin as well as actual cost comparison of hand and automatic welding. This bulletin points out convincingly the actual economy made possible by this method. Copies of this publication may be obtained from any district office of the Company or directly from the Advertising Department, East Pittsburgh, Pa.

Contracts Awarded

Liens, Acceptances, Etc.

BUILDING PERMITS

SAN FRANCISCO COUNTY

1112	Brehemy	Westlund	3200
No.	Owner	Contractor	Amt.
1113	Murphy	Owner	45000
1114	Mayda	Owner	1000
1115	Almqvist	Owner	4000
1116	Bellante	Moncello	2000
1117	Railway	Sullivan	2000
1118	Pacific	Larsen	21000
1119	Rousseau	Owner	1750
1120	Meyer	Owner	4000
1121	Unsworth	Owner	1000
1122	Finn	Owner	4000
1123	De Bella	Pastorini	5000
1124	Ash	Owner	12500
1125	Burke	Owner	1500
1126	Meyer	Owner	5000
1127	Meyer	Owner	4000
1128	McCoy	Bugfeld	5600
1129	Stich	Owner	9000
1130	Bernell	Owner	4000
1131	Eng	Owner	6500
1132	Tognelli	Lindberg	4900
1133	Voornhills	Janssen	50000
1134	Jacobs	Mallach	3000
1135	Douglas	Owner	2900
1136	Barrick	Owner	1000
1137	American	Coburn	5000
1138	Peterson	Owner	70000
1139	Deshler	Owner	1000
1140	Berwick	Owner	5500
1141	Ferroggiaro	Owner	4000
1142	Costello	Owner	4000
1143	Sly	Young	2900
1144	Indoor	Jedlicka	4500
1145	Harband	Schultz	27000
1146	Pouey	Owner	8900
1147	Hill	Owner	1000

DWELLING

(1112) E HOLYOKE 75 S Silver; 1-story and basement frame dwelling.

Owner—J. Brehemy, 656 Colby St.
Architect—Plans by C. H. Westlund, 133 Howard St.

Contractor—C. H. Westlund. \$3200

APARTMENTS

(1113) NW CASA and Retiro; 3-story and basement frame 15 apartments.

Owner—C. P. Murphy, 1475 Chestnut.
Architect—L. O. Ebbetts, 320 Fulton St. \$45,000

DWELLING

(1114) SW ALVARADO and Douglas; addition of 1 story to dwelling.
Owner—J. Mayda, 828 Alvarado St.
Architect—None. \$1000

DWELLING

(1115) W 27th AVE. 150 S Judah; 1-story and basement dwelling.
Owner—F. E. Almqvist, 1630 24th Ave.
Architect—None. \$4000

(1116) 2737 TAYLOR ST.; alterations to store fronts.
Owner—F. Bellante, 2737 Taylor St.
Architect—None.

Contractor—J. Moncello. \$2000

(1117) E. HAWTHORNE 194 S Folsom; alterations to underpinning walls.

Owner—Railway Express Agency, Inc.
Architect—J. H. Humphreys, Wells Fargo Bldg.

Contractor—D. J. & T. Sullivan, 240 Folsom St. \$2000

ALTERATIONS

(1118) W FOLSOM, bet. 18th and 19th Sts. Alterations and general repairs.

Owner—Pacific Gas & Electric Co., 245 Market St., San Francisco.
Engineer—L. C. Steele, 245 Market St., San Francisco.

Contractor—H. H. Larsen, 64 South Park, San Francisco. \$21,900

GOLF COURSE

(1119) NO. 1028 MARKET ST. Indoor miniature golf course

Owner—A. F. Rousseau, 110 Sutter St., San Francisco.
Architect—None. \$1750

DWELLING

(1120) SW PORTOLA AND DEL Mar Aves. One-story and basement frame dwelling.

Owner—Meyer Bros., 727 Portola St., San Francisco.
Plans by D. T. Burke. \$4000

DWELLING

(1121) NE SUSSEX AND DIAMOND One-story and basement frame dwelling.

Owner—G. G. Unsworth, 1979 Eddy St., San Francisco.
Architect—None. \$1000

DWELLING

(1122) S PALOU AVE 75 S Newhall. One-story and basement frame dwelling.

Owner—P. Finn, 1687 Palou St., San Francisco.
Architect—None. \$4000

DWELLING

(1123) NW DOLORES AND JERSEY Two-story and basement frame dwelling.

Owner—N. and T. De Bella, 3569 Mission St., San Francisco.
Architect—None.

Contractor—L. Pastorini, 1438 Van Dyke Ave., San Francisco. \$5000

ALTERATIONS

(1124) S ELLIS 137 W Fillmore St. Alter for indoor golf course and dance hall.

Owner—J. L. Ash, 52 Sixth St., San Francisco.
Engineer—P. H. Kiel, 1247 Harrison St., San Francisco. \$12,500

GOLF COURSE

(1125) SE EDDY AND POLK. Miniature golf course.

Owner—Miss Burke, Hotel Clark.
Architect—None. \$1500

DWELLING

(1126) SW ROCKDALE AND LA Bica. One-story and basement frame dwelling.

Owner—Meyer Bros., 727 Portola St., San Francisco.
Plans by D. T. Burke. \$5000

DWELLING

(1127) S ROCKDALE 30 W La Bica. One-story and basement frame dwelling.

Owner—Meyer Bros., 727 Portola St., San Francisco.
Plans by D. T. Burke. \$4000

DWELLING

(1128) W DIAMOND 45 N Clipper. One-story and basement frame dwelling.

Owner—L. O. and E. S. McCoy, 1034 Diamond St., San Francisco.
Architect—None.

Contractor—H. H. Bugfeld, 3327 Clement St., San Francisco. \$5000

DWELLINGS

(1129) S SANTIAGO 56 E Nineteenth Ave. Three one-story and basement frame dwellings.

Owner—F. M. Stich, 1155 Taraval St., San Francisco.
Architect—Geo. M. Cantrel. \$9000

DWELLING

(1130) E HAMILTON 200 S Felton. One-story and basement frame dwelling.

Owner—W. Bernell, 201 Hamilton St., San Francisco.
Architect—None. \$4000

FACTORY

(1131) SE RUSS AND HOWARD ST. Three-story and basement Class B factory, storage and offices (2nd unit).

Owner—Eng Skell Co., Inc., 208 Mission St., San Francisco.
Engineer—A. C. Griewank. \$65,000

STUDIO

(1132) S FRANCISCO 87 E Mason; one-story, mezzanine and basement frame studio.

Owner—P. O. Tognelli, 3056 Gough St.
Architect—None.

Contractor—C. Lindberg, 1 Taylor St. \$4900

APARTMENTS

(1133) SE PACIFIC and Baker Sts.; three-story and basement class C (6) apartments.

Owner and Builder—W. R. Voorhies, 369 Pine St.
Architect—A. D. Janssen, 5132 Fairfax Ave. \$50,000

ALTERATIONS

(1134) 826 CLEMENT St.; alterations for miniature golf course.

Owner—W. Jacobs, 224 16th Ave.
Architect—None.
Contractor—J. S. Malloch, 666 Mission Street. \$3000

DWELLING

(1135) W 29th AVE. 65 N Ulton; one-story frame dwelling.

Owner—S. Douglas, 2491 29th Ave.
Architect—None. \$2900

ALTERATIONS

(1136) 1364 PAGE ST.; alterations and additions to dwelling

Owner—C. Barrick, 1364 Page St.
Architect—None. \$1000

CAPITAL CITY TILE COMPANY

J. C. PALEN

Manager

914 Seventh Street

Sacramento - - - California

ALTERATIONS

(1137) NW 16th and Church Sts.; alterations to factories.
Owner—American Chile Co., 735 Battery St.
Architect—None.
Contractor—L. W. Coburn, 2048 Market Street. \$5000

DWELLINGS

(1138) S PARADISE 81 E Elk; two 1-story and basement frame dwellings.
Owner—E. Peterson, 2218 15th St.
Architect—None. \$7000

DWELLING

(1139) N ASHTON 80 S Garfield; one-story and basement frame dwelling.
Owner—Mrs. L. Desher, 930 Shields.
Plans by W. Desher. \$1000

DWELLINGS

(1140) SE PERU and Madrid; two 1-story and basement frame dwellings.
Owner—A. Berwick, 1525 Noe St.
Architect—C. M. Baker, 155 Montgomery St. \$5500

DWELLING

(1141) NW BACON and Holyoke; 1-story and basement frame dwelling.
Owners—W. F. Ferroggiaro and K. C. Gainer, 1049 Bacon St.
Architect—G. A. Berger, 309 Valencia Street. \$4000

DWELLING

(1142) W 28th AVE, 100 S Cabrillo; one-story and basement frame dwelling.
Owner—L. Costello, 382 27th Ave.
Architect—None. \$4000

ALTERATIONS

(1143) MARKET and Sanchez Sts.; alterations to store fronts.
Owner—L. H. Sly.
Architect—E. E. Young, 2002 California St. \$2000

APPURTENANCES

(1144) 1955 CHESTNUT St.; appurtenances for miniature golf course.
Owner—Indoor-Outdoor Golf Co., 1955 Chestnut St.
Contractor—C. R. Jedlicka, 1237 Post Street. \$4500

SHOP & LOFT

(1145) N HOWARD 225 W 7th Sts.; two-story and mezzanine shop and loft building.
Owner—D. Harband.
Engineer—A. C. Griewank, 208 Mission St.
Contractor—Schultz Const. Co., 46 Kearny St. \$27,000

LAUNDRY

(1146) S LOMBARD 165 S Steiner; two-story and basement frame laundry and dwelling.
Owner—L. Pouey, 747 Call Bldg.
Architect—R. R. Irvine, 747 Call Bldg. \$8900

APPURTENANCES

(1147) E MISSION 100 S Russia; appurtenances for golf course.
Owner—J. J. Hill, 727 37th Ave.
Architect—E. Anderson, 559 18th Ave. \$1000

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
180	McCoy	Bergfeld	5600
181	R C Archibishop	Bryant	26249
182	Richelleu	O'Mara	7549

COTTAGE

(180) W DIAMOND 45-6 N Clipper.
All work for seven-room and basement cottage.
Owner—L. O. and Ethel S. McCoy, Phelan Bldg., San Francisco.

Architect—None.
Contractor—H. H. Bergfeld.
Filed Aug. 28, '30. Dated Aug. 8, '30.
Frame completed \$1400
Brown coated 1400
Completed 1400
Usual 35 days. 1400

TOTAL COST, \$5600

Bond, none. Limit, Nov. 10, 1930.
Forfeit, none. Plans and specifications filed.

(181) SW ULLOA AND ROCKAWAY Sts. W 206.608 SW 22.475 S 86 E 93.652 S 31.668 E 89.997 N 22.07 NW 22.673. All work for one and two-story and basement frame parochial residence with garage.
Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.

Architect—E. A. Eames, 353 Sacramento St., San Francisco.
Contractor—J. A. Bryant, Ltd., 185 Stevenson St., San Francisco.
Filed Aug. 29, '30. Dated June 16, '30.
Roof on 3/4
1st coat plaster on 3/4
When accepted 3/4
36 days after 3/4

TOTAL COST, \$26,249

Bond, \$26,249. Surety, Aetna Casualty & Surety Co. Limit, 100 days.
Forfeit, \$5. Plans and specifications filed.

PLUMBING & HEATING

(182) SE COR. VAN NESS AVE. and Geary St., plumbing and heating for building.
Owner—Richelieu Hotel Corp.
Engineers—Leland & Haley, 58 Sutter Street.
Contractor—O'Mara & Stewart, Ltd., 218 Clara St.
Filed and Dated, Sept. 2, 1930.
Rough in \$2000
5th of each month 300
TOTAL COST, \$7549
Limit, 70 days.

COMPLETION NOTICES

San Francisco County

Recorded	Accepted
August 30, 1930—N GREENWICH 200-6 E Baker 22x120. O Matzey to Thos R Sharman August 28, 1930	
August 30, 1930—W BRAZIL AVE and Naples NW 25xSW 75 Blk 46	
Excl Hd. Assn. 1 N Oistad to whom it may concern August 27, 1930	
August 29, 1930—N TWENTYNINTH 105 E Castro. Arnold and Margaret Logue to Henry Erickson August 26, 1930	
Aug. 29, 1930—NW VISITACION and San Bruno Aves. L E Ene-mark, Trustee Hastings Trust Estate to The Ruegg Co. August 29, 1930	
Aug. 29, 1930—E LVELL ST. 224 and 249 S Bosworth St. A Berwick to whom it may concern August 29, 1930	
Aug. 29, 1930—SE DUBOCE AVE and Buena Vista Terrace. B Russell to A F Mattock and A H Feasy August 18, 1930	
Aug. 29, 1930—LOTS 34, 35, 36, 37 Blk 2947-A Sub. No. 6, and Lots 27 and 28 Blk 2959 Sub. No. 4, Miraloma Park. Meyer Bros to whom it may concern August 25, 1930	
Aug. 29, 1930—SW VICENTS ST and 21st Ave S 50xW 32-6. Meyer Bros to whom it may concern August 25, 1930	

August 29, 1930—SW HAYES and Pierce W 105-6xS 60-6. Phil Harris to whom it may concern August 26, 1930

Aug. 29, 1930—E TWENTY-EIGHTH AVE 300 N Moraga N 25x E 120. R W Michael Jr to whom it may concern August 29, 1930

Aug. 29, 1930—N PRAGUE AND Persia Ave NW75xNE 50 Blk 90. Excel Hd Assn. Lorenzo Besio to whom it may concern August 27, 1930

Aug. 29, 1930—W CROWN TERRACE in Ashbury Park Tract A S Twin Peaks Blvd 55x88-2 1/2. I M Barbe and Edw M Reilly Jr to Strehlow & La Voie August 27, 1930

August 28, 1930—E 20TH AVE 225 S Santiago. Donald S. Kavanagh to whom it may concern August 28, 1930

August 28, 1930—E THIRTIETH AVE 118-6 N Balboa N 28-1x E 114. H Knighthart to whom it may concern August 27, 1930

August 28, 1930—W HYDE 56-6 S Beach S 27xW 85. Vincenzo and Francesca Crivello to Tony D'Amico August 27, 1930

Aug. 27, 1930—W THIRTY-SECOND AVE 225 N Taraval N 50xW 120. John B Kenny to whom it may concern August 29, 1930

Aug. 27, 1930—S VICENTE 276 W Fourteenth Ave 25x100. Elkington & Sons to whom it may concern August 22, 1930

LIENS FILED

San Francisco County

Recorded	Amount
August 30, 1930—NE HOLYOKE ST. 175NW Burrows. B E Tomlin vs S and R Lepo and J Williams \$33.65	
August 28, 1930—W PLYMOUTH AVE 50 N Montana N 25 x W 75 Blk V May lands R R Hd Assn. J. L. Ash & Co. vs C W Wider & Veterans Welfare Board \$137.50	
August 28, 1930—W 37TH AVE 300 S Lincoln Way S 25 x W 120. Bernard Pegel vs Mabel E Kennedy \$96	
August 28, 1930—N HAIGHT 137-6 E Divisadero E 25xN 137-6. Edward R Martin vs Dolores Davidson \$161	
Aug. 28, 1930—W THIRTY-SEVENTH AVE 306 S Lincoln Way S 25 xW 120 B Pegel vs M E Kennedy \$96	
Aug. 28, 1930—W PLYMOUTH AVE 50 N Montana N25xW 75. J L Ash & Co vs C W Wider and Veterans' Welfare Board \$137.50	
Aug. 28, 1930—W THIRTY-EIGHTH AVE 200 S Geary S 25x E 120. R Hinton vs A and Bessie Jacobson \$285	
Aug. 27, 1930—E ELEVENTH AVE 200 N Noriega N 25x E 120. F M Blessing (as New Mission Sheet Metal Works) vs Ernest Watson \$105	
Aug. 27, 1930—LOTS 30, 31 AND 32 Blk 143, Brown Est. Co. Sub Univ Mid F M Blessing (as New Mission Sheet Metal Works) vs Laverne Booker \$340	
Aug. 27, 1930—E FORTY-SECOND AVE 175 S Balboa S 25x E 120 CL 340. Philip F Marks vs Max and Emma L Boehm and American Trust Co \$300	
Sept. 2, 1930—E 11th AVE 250 N Ortega N 25 x E 120 known as 1856 11th Ave. Frank Menicucci as Arc Electric Co. \$135; J D Murphy as Standard Bldg Material Co. \$169.82; K W Oertel, Paul and Dusine Ackenhell \$145	
Sept. 2, 1930—E 19th St E Douglas E 34 x N 145. Ed Adair vs Herman G Vogel \$145	

BUILDING PERMITS

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
1067	MacGregor	Owner	1975
1068	Reinertsen	Owner	3000
1069	Milreage	Melrose	3580
1070	Groce	Owner	3500
1071	Gaeta	Owner	2000
1072	Nichelman	Carlson	2500
1073	Vila	Owner	3500
1074	Sherwood	Owner	3800
1075	Gaeta	Owner	2000
1076	Power	Owner	4500
1077	Graham	Owner	3000
1078	Pell	Owner	4000
1079	Walton	Smith	4000
1080	Felt	Owner	4000
1081	Longmate	Smith	4000
1082	Union	Keating	8500
1093	Wills	Peacock	1629
1094	Malden	Swanstrom	1000
1083	Broadhead	Owner	4500
1081	Peters	Norgrove	4500
1085	Johanson	Owner	4700
1086	Lapham	Owner	10000
1087	Otto	Owner	4950
1088	De Bo	Owner	1000
1089	Graham	Larsen	3000
1090	Schuster	Owner	20000
1091	Short	Owner	4000
1092	Short	Owner	4000
1096	Ghiselli	Owner	1000
1097	Howard	Owner	3500
1098	Howard	Owner	3500
1099	Wasylyna	Owner	3200
1100	Birch	Owner	1975
1101	Hunt	Henderson	12300
1102	Milreage	Melrose	3625
1103	Williams	Owner	1500
1104	Bernheim	Windsor	14000
1105	Nehningsen	Jensen	1100
1106	Lawrence	Owner	1500
1107	Roman	Icardi	6000
1108	Stewart	Owner	3500
1109	Contractors	Austin	13000
1110	Howard	Stolte	32000

DWELLING
(1067) NO. 943 EVELYN AVE.,
ALBANY. Four-room dwelling.
Owner—C. M. MacGregor, 470 13th St.,
Oakland
Architect—None. \$1975

DWELLING
(1068) NO. 1509 FRANCES ST.,
ALBANY. Five-room dwelling.
Owner—A. B. Reinertsen, 914 Carmel
Ave., Albany.
Architect—None. \$3000

STATION
(1069) NO. 1239 SOLANO AVEUNE,
ALBANY. Service station.
Owner—Milreage Gasoline Co., 45th
and Clement St., Albany.
Architect—None
Contractor—Melrose Steel Co., Inc.,
1200 47th Ave., Oakland. \$3580

DWELLING
(1070) NO. 731 RAMONA AVENUE,
ALBANY. Five-room dwelling and
garage.
Owner—Paul C. Groce, 708 Pierce St.,
Albany.
Architect—None. \$3500

DWELLING
(1071) NO. 1123 DARTMOUTH ST.,
ALBANY. Five-room dwelling.
Owner—Gartana D. Gaeta, 816 Kains
Ave., Albany.
Architect—None.
Contractor—G. D. Gaeta, 816 Kains
Ave., Albany. \$2000

DWELLING
(1072) NO. 1020 SANTA FE AVE.,
ALBANY. Five-room dwelling
and garage.
Owner—G. W. Nichelman, Berkeley.
Architect—None.
Contractor—G. E. Carlson, 917 Madison
Ave., Albany \$2500

DWELLING
(1073) NO. 708 SAN CARLOS AVE.,
ALBANY. Five-room dwelling.
Owner—Joe Vila, 1207 Solano Ave.,
Albany.
Architect—None. \$3500

DWELLING
(1071) NO. 911 EVELYN AVE., **AL-**
BANY. Five-room dwelling and
double garage.
Owner—F. E. Sherwood, 1359 Marin
Ave., Albany.
Architect—None. \$3800

DWELLING
(1075) NO. 1127 DARTMOUTH ST.,
ALBANY. Five-room dwelling.
Owner—Gartana D. Gaeta, 816 Kains
Ave., Albany.
Architect—None.
Contractor—G. D. Gaeta, 816 Kains
Ave., Albany. \$2000

DWELLING
(1076) NO. 949 BRIDGE ROAD, **SAN**
LEANDRO. Five-room frame and
stucco dwelling.
Owner—J. J. Power, 633 40th St.,
Oakland.
Architect—None. \$4500

DWELLING
(1077) NO. 401 FIRST AVE., **SAN**
LEANDRO. Five-room frame and
stucco dwelling.
Owner—C. H. Graham, 1500 Plaza Dr.,
Hayward.
Architect—None. \$3000

DWELLING
(1078) NO. 14 EUCALYPTUS ST.,
BERKELEY. Two-story 6-room
stucco dwelling.
Owner—Marcus A. Peel, 10 Oakvale
Ave., Berkeley.
Architect—None. \$4000

DWELLING
(1079) NO. 1201 INA WAY, **BER-**
KELEY. One-story 6-room plaster
dwelling.
Owner—Mary Walton, 1359 Miramont
St., Berkeley.
Architect—None.
Contractor—J. Harry Smith, 677 Santa
Barbara St., Berkeley. \$4000

DWELLING
(1080) NO. 55 POPPY LANE, **BER-**
KELEY. One-story 6-room stucco
dwelling.
Owner—F. H. Felt, 2050 McGee St.,
Berkeley.
Architect—None. \$4000

DWELLING
(1081) NO. 16 INDIAN ROCK PATH,
BERKELEY. One-story 6-room
plaster dwelling.
Owner—A. E. Longmate, 1525 Parker
St., Berkeley
Architect—None.
Contractor—J. Harry Smith, 677 Santa
Barbara St., Berkeley. \$4000

SERVICE STATION
(1082) 3001 TELEGRAPH AVE.,
BERKELEY; Class C service sta-
tion.
Owner—Union Oil Co., 1071 Mills
Bldg., San Francisco.
Architect—None.
Contractor—The Keating Const., Oak-
land. \$8500

DWELLING
(1083) 2030 UNION ST., **BERK-**
ELEY; 2-story 6-room dwelling,
rustic finish.
Owner and Builder—Frank Broad-
head, 1232 Glenn Ave.
Architect—None. \$4500

DWELLING
(1084) 520 COLUSA AVE., **BERK-**
ELEY; 1-story 6-room dwelling,
stucco.
Owner—Wm. A. Peters, 652 Peralta
Ave.
Architect—None.
Contractor—C. M. Norgrove, 2220
Roosevelt Ave., Berkeley. \$4500

DWELLING
(1085) 7515 NEY AVE., **OAKLAND;**
1-story 6-room dwelling and 1-
story garage.
Owner—K. A. Johanson, 2832 78th
Ave., Oakland.
Architect—None. \$4700

DWELLING
(1086) 900 PARAMOUNT RD., **OAK-**
LAND; 2-story 8-room dwelling.
Owner—A. R. Lapham, 947 Hillcroft
Circle.
Architect—None.
Contractor—Theo. H. Lapham, 546
Kenmore Ave. \$10,000

DWELLING
(1087) 4721 MELDON AVE., **OAK-**
LAND; 1-story 6-room dwelling
and 1-story garage.
Owner—W. C. Otto, 386a Greenwood
Ave.
Architect—None. \$4950

(1088) 4757 FAIR AVE., **OAKLAND;**
alterations and addition.
Owner—A. DeBo, 4757 Fair Ave.
Architect—None. \$1000

DWELLING
(1089) N 43rd ST. 300 E Linden St.,
OAKLAND; 1-story 4-room dwell-
ing.
Owner—G. Frommer, 978 43rd St.
Architect—None.
Contractor—H. A. Lassen, 5532 Ma-
nila Ave. \$3000

APARTMENTS
(1090) NO. 400 PERKINS ST., **OAK-**
LAND. Six-story brick and con-
crete apartments.
Owner—Harry Schuster, 2424 Curtis
St., Berkeley.
Architect—None. \$200,000

DWELLING
(1091) N EL CENTRO at Glendorn,
OAKLAND. One-story 6-room
dwelling.
Owner—C. W. Short, 574 Rosal Ave.,
Oakland.
Architect—None. \$4000

DWELLING
(1092) N EL CENTRO at Glendora,
OAKLAND. One-story 6-room
dwelling.
Owner—C. W. Short, 574 Rosal Ave.,
Oakland.
Architect—None. \$4000

ALTERATIONS
(1093) NO. 476 THIRTEENTH ST.,
OAKLAND. Alterations.
Owner—Carol Wills, 476 13th St.,
Oakland.
Architect—None.
Contractor—John Peacock, 2572
Chester St., Alameda. \$1629

ALTERATIONS
(1094) NO. 1444 TWENTY-THIRD
AVE., **OAKLAND.** Alterations.
Owner—Malden-Rittigstein Co.
Architect—None.
Contractor—Geo. Swanstrom, 1723
Webster St., Oakland. \$1000

ADDITIONS
(1095) NO. 417 OAKLAND AVE.,
OAKLAND. Additions.
Owner—Dr. Harry Wyckoff, Premises
Architect—None.
Contractor—W. H. Swank, 3384 Ar-
kansas St., Oakland. \$1000

ALTERATIONS
(1096) 1312 FOUNTAIN ST., **ALA-MEDA**; frame alterations.
Owner and Builder—M. Ghiselli, 1312 Fountain St., Alameda.
Plans by Owner. \$1000

DWELLING
(1097) 1547A SANTA CLARA AVE., **ALAMEDA**; two-story five-room frame and stucco dwelling.
Owner and Builder—C. C. Howard, 1541 1/2 Santa Clara Ave., Alameda.
Architect—W. W. Dixon, Oakland. \$3500

DWELLING
(1098) 1545A SANTA CLARA AVE., **ALAMEDA**; two-story five-room frame and stucco dwelling.
Owner and Builder—C. C. Howard, 1541 1/2 Santa Clara Ave., Alameda.
Architect—W. W. Dixon, Oakland. \$3500

DWELLING
(1099) 3518 LIBBY COURT, **OAKLAND**; one-story 5-room dwelling.
Owner and Builder—B. Wasylina, 3518 Libby Court, Oakland.
Architect—None. \$3200

DWELLING
(1100) 8 OLIVE ST. 65 E 8th Ave., **OAKLAND**; 1-story 3-room dwelling.
Owner and Builder—A. A. Birch, 8415 Olive St., Oakland.
Architect—None. \$1975

DWELLING
(1101) 6011 ACACIA AVENUE, **OAKLAND**; two-story 8-room dwelling and 1-story garage.
Owner—Mrs. Jas. M. Hunt.
Plans by A. Dudman, 1640 Arch St., Berkeley.
Contractor—H. K. Henderson, 393 40th St., Oakland. \$12,300

SERVICE STATION
(1102) 1890 ALCATRAZ AVENUE, **OAKLAND**; class C service station.
Owner—Mileage Gas Co., California Bldg., Oakland.
Plans by Builders.
Contractor—Melrose Steel Co., 1200 47th Ave., Oakland. \$3625

GREENHOUSE
(1103) 15 GLEN ALPINE RD., **PIEDMONT**; greenhouse.
Owner and Builder—Mrs. C. Williams, 15 Glen Alpine Road, Piedmont.
Architect—None. \$1500

RESIDENCE
(1104) 227 PACIFIC AVENUE, **PIEDMONT**; two-story 8-room frame residence and garage.
Owner—W. H. Bernheim, 266 Wildwood Ave., Piedmont.
Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.
Contractor—Geo. Windsor, 928 Kingston Ave., Piedmont. \$14,000

ALTERATIONS
(1105) 124 CAMBRIDGE WAY, **PIEDMONT**; alterations.
Owner—H. P. Henningsen.
Architect—None.
Contractor—Jensen & Pedersen, 3443 Adeline St., Oakland. \$1100

ADDITION
(1106) 5317 LAWTON AVE., **OAKLAND**; addition to dwelling.
Owner and Builder—C. H. Lawrence, 5321 Lawton Ave., Oakland.
Architect—None. \$1500

CHURCH
(1107) W 82nd Ave. 200 N Atherton, **OAKLAND**; 1-story church.
Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.
Plans by H. A. Minton, 525 Market St., San Francisco.

Contractor—Ernest Icardi, 227A Colingwood St., San Francisco. \$6000

DWELLING
(1108) NW COR. 23rd AVE. and East 29th St., **OAKLAND**; one-story 5-room dwelling.
Owner and Builder—A. E. and S. L. Stewart, 3960 Waterhouse Road, Oakland.
Architect—None. \$3500

WAREHOUSE
(1109) 1235 57th AVE., **OAKLAND**; one-story warehouse.
Owner—Contractors' Machinery Exchange, 1135 57th Ave., Oakland.
Plans by Builder.
Contractor—Austin Co. of California, 720 Ray Bldg., Oakland. \$13,000

AUTO SALES BLDG.
(1110) 2140 DURANT AVE., **BERKELEY**; one-story 7-room class C auto sales building.
Owner—Howard Auto Co., Berkeley.
Architect—F. H. Reimers, Franklin Bldg., Oakland.
Contractor—F. C. Stolte, 3455 Laguna Ave., Oakland. \$32,000

BUILDING CONTRACTS

ALAMEDA COUNTY

No. Owner	Contractor	Amt.
151 City of Berkeley	West	25610
152 Doyle	Stolte	32244

LIBRARY
(151) SW KITREDGE ST. AND Shattuck Ave., Berkeley. All work for furnishing and erecting steel book stacks in Public Library Building.

Owner—City of Berkeley.
Architect—James J. Plachek, 404 Mercantile Bank Bldg., Berkeley.
Filed Aug. 28, '30. Dated Aug. 14, '30
1st and 15th of each month..... 50%
On completion, amount sufficient to total payments of..... 75%
Usual 35 days..... Balance

TOTAL COST, \$25,610
Bonds (2) Performance, \$6402.50; labor and materials, \$12,805. Surety, Hartford Accident & Indemnity Co. Limit, forfeit, none. Plans and specifications filed.

SALES ROOM
(152) SW DURANT and Fulton Sts., Berkeley; general construction on 1-story reinforced concrete automobile sales room.
Owner—Delphine Ferrier Doyle, Frances F and Elisabeth F Ross.
Architect—F. H. Reimers, Franklin Bldg., Oakland.
Contractor—Fred C. Stolte, 3455 Laguna St., Oakland.

Filed and Dated Sept. 2, 1930.
When walls are up..... 25%
When roof is on..... 25%
When completed..... 25%
Usual 35 days..... 25%
TOTAL COST, \$32,244.50
Bond, \$16,122.25 Sureties, New York Indemnity Co. Limit, Nov. 24, 1930. Plans and Spec. filed.

COMPLETION NOTICES

Alameda County

Recorded	Accepted
August 30, 1930—NE KING AND La Salle Sts., Piedmont. A S Weaver to Alex Wiehen. Aug. 29, 1930	
August 30, 1930—CENTRAL AND Encinal Aves., Alameda. Associated Oil Co to The Austin Co..... August 22, 1930	

August 29, 1930—PTN LOTS 23 AND 29 Blk 19, Map No. 6, Regents Park, Albany. Charles E Eakin to whom it may concern..... August 28, 1930

August 28, 1930—PTN LOTS 40 AND 41 Blk 9 map of Blk 9 and a ptn of blks 2 and 8 Thousand Oaks Heights. Thorvald Pedersen to whom it may concern..... August 22, 1930

August 28, 1930—LOT 21 BLK 3 "Highland Manor." Herman J and Josephine Erben to Leo J. Dolan..... August 22, 1930

August 28, 1930—LOT 357 BLK U "Fernside." Noble P. Justice to whom it may concern..... August 27, 1930

August 28, 1930—N CEDAR ST 100 ft E of California St. Edward Berg to Edward Berg to whom it may concern..... August 27, 1930

Aug. 27, 1930—NO. 11 GLEN ALPINE Road, Piedmont. Ernest J Sweetland to whom it may concern..... August 20, 1930

Aug. 27, 1930—NO. 1672 TREBLE Glen Road, Oakland. H C Pendleton to H C Pendleton..... August 27, 1930

Sept. 2, 1930—CAMPUS of the University of California, Berkeley. The Regents of the University of California to E T Lesure..... August 25, 1930

Sept. 2, 1930—CAMPUS of the University of California, Berkeley. The Regents of the University of California to Anderson Company..... August 25, 1930

Sept. 2, 1930—CAMPUS of the University of California, Berkeley. The Regents of the University of California to Reid Bros, Inc..... August 25, 1930

Sept. 2, 1930—CAMPUS of the University of California, Berkeley. The Regents of the University of California to Otis Elevator Co..... August 25, 1930

Sept. 2, 1930—1816 TENTH STREET Berkeley. Geo Spritta to whom it may concern..... August 30, 1930

Sept. 2, 1930—LOT 2 BLK M, Fourth Avenue Terrace, Oakland. Ruth E Taylor to whom it may concern..... August 20, 1930

LIENS FILED

ALAMEDA COUNTY

Recorded	Amount
August 30, 1930—LOT 6 BLK D, Peralta Heights, Oakland. Western Door & Sash Co, \$2411.40; Chris Nelson Co., Ltd, \$732.49; P Barale, \$2600; B Simon Hardware Co, \$1089.50; vs Wm Richardson and J Daneri.....	
August 30, 1930—LOT 21 and Ptn Lots 23 and 25 Blk 9, Berkeley Heights, Berkeley. T P Hogan Co vs O E Cushman and W H Hooper.....	\$40.45
August 30, 1930—NO. 243 ATHOL Ave, Oakland. Herschel & Reinecke vs William Richardson and Joe Daneri.....	\$860
Aug. 29, 1930—LOT 6 BLK D, Peralta Heights, Oakland. Sinclair-Wolfe Co vs Wm Richardson.....	\$62
Aug. 29, 1930—INTR. NW BRUCE and NE E-32nd St., Oakland. Eureka Mill & Lumber Co vs G W Steffins.....	\$2081.96
August 28, 1930—PTN LOT 1 BLK 640A map of Fountain Place. Advance Electric Co. vs Gus Lindquist, W. H. Wellbye.....	\$249.33
August 28, 1930—LOT 25 BLK 414 "Property of Capitol Hotel and Assn." Boiler Tank & Pipe Co. vs H. E. Buckland.....	\$137.50
Aug. 27, 1930—LOT 6 BLK D, Peralta Heights, Oakland. Clinton Mill & Lumber Co vs William Richardson and Jos Daneri.....	\$573.98
Aug. 27, 1930—NO. 1020 STANNAGE Ave., Albany. Tilden Lumber &	

Mill Co, \$277.80; Sunset Lumber Co, \$296.50 vs Gaetano D Gaepa... Sept. 2, 1930—SE 30th and Broadway, Oakland. Judson Pacific Co vs Harold L Falge, Firestone Tire & Rubber Co.....\$4760
August 30, 1930—NO. 243 ATHOL Ave., Oakland J A Fazio, \$3885; Art Tile & Mantel Co, \$2208; J C Henderson, \$190 vs Wm Richardson and Joe Daneri.....\$650
August 30, 1930—NO. 243 ATHOL Ave., Oakland. Bertel Mork Sheet Metal Works vs William Richardson; Jane Doe Richardson and Joe Daneri.....\$650
August 30, 1930—NO. 243 ATHOL Ave., Oakland. A Cardoni vs Wm Richardson; Wm and Addie E Richardson and Joe Daneri.....\$4918.80
August 30, 1930—LOT 6 BLK D, Peralta Heights, Oakland. West Bros Roofing Co, \$52.50; Electric Plumbing Mill, \$3363; McGrath Steel Co, \$749.26; Liberty Ornamental Iron & Wire Works, \$976.50; vs Wm and Addie E Richardson & Joseph Daneri.....

RELEASE OF LIENS

ALAMEDA COUNTY

Recorded Amount
Aug. 28, 1930—LOTS 50 AND 51 BLK B, Fruitvale Villa Tract, Oakland California Mill Co, \$144; Joe Triebert and Frank Massaro, \$143; D L & P L Minogio, \$269.25; West Bros. Roofing Co, \$90; West Coast Window Shade Service, \$60.50; Makin & Kennedy, Inc, \$310.30; W H Gibson, \$38; Tilden Lumber & Mill Co, \$102.76; Sunset Lumber Co, \$41.21 to Louis and Mary Barone and Karl Engman.
Aug. 28, 1930—LOTS 50 AND 51 BLK E, Fruitvale Villa Tract, Oakland. Garrett Mill & Lumber Co to Louis and Mary Barone and B C Goodwin.....\$116.76
Aug. 28, 1930—LOTS 50 AND 51 BLK B, Fruitvale Villa Tract, Oakland. Old Mission Paint Co to Louis and Mary Barone; Carl Engman and E W Beyerle.....\$45.88
August 30, 1930—LOT 14 and ptn lots 10 & 11, Scoville Tract, Berkeley. Smith Lumber Co of Oakland to C O Dull, Joe Daneri.....\$777
August 30, 1930—LOT 462, Joaquin Miller Acres Unit No 2, Oakland. Zenith Mill & Lumber Co to John Collins and wife, Realty Syndicate Company.....\$173.05

OAKLAND BUILDING SUMMARY

A. S. Holmes, chief building inspector of Oakland, reports the issuance of 380 permits during the month of August, 1930, for improvements estimated to cost \$763,925. Following is a segregated report of the Oakland activities for August:

Class'n of Bldgs.	No. Permits	Cost
1S Dwellings	31	\$110,450
1S 2 Fam. Dwell.	1	5,000
1S 6 Fam. Dwell.	2	16,000
2S Dwellings	8	67,200
3S Apartments	2	130,000
1S Store	1	2,750
1S Office	25	12,700
1S Greenhouse	3	4,300
1S Comfort Stations	5	1,000
1S Shop	3	2,950
2S Shop	1	20,000
1S Tile Store	1	3,000
1S Tile Shop	1	500
1S Tile Restaurant	1	500
1S Tile Garage	2	6,900
1S Tile Boiler Room	1	500
1S Brick Office	3	1,800
2S Brick Crm'y. & Gar	1	43,000
6S Brick Apts.	1	200,000
1S Brick & Tile Office	1	3,850
1S Concrete Garage	1	600

1S Concrete Office	1	100
1S Steel Serv. Sta.	1	5,250
1S Steel Comfort Sta.	1	300
Steel Tower	2	400
Steel Canopy	1	500
Hillboards	17	2,800
Electric Signs	50	20,535
Roof Signs	4	2,525
Marquee	1	800
1S Garages & Sheds	58	11,335
Additions	55	35,668
Alters & Repairs	91	50,912
Totals	380	\$763,925

BUILDING PERMITS

SAN MATEO

BUNKERS, sand and gravel, reinforced concrete, \$10,000; Lot 4 Woodside Way, San Mateo; owner, H. E. Casey Co., San Mateo; contractor, A. M. Schulte, 120 Bancroft St., Burlingame.
RESIDENCE, \$9500; Lot 29 Blk 18, No. 534 Georgetown, Baywood; owner, M Sorenson, 16 Dwight Road, Burlingame.

BUILDING PERMITS

BURLINGAME

BUNGALOW, \$7500; Lot 1 Blk 5, Winchester St., Burlingame; owner, A. McLachlan, 2701 Adeline Drive, Burlingame.
BUNGALOW, \$5000; Lot 8 Blk 54, Drake Ave., Burlingame; owner, Chas. Bell, 48 Park Road, Burlingame.

BUILDING PERMITS

SAN JOSE

RESIDENCE, six-room frame, \$4,000; Tenth near Jackson; owner, J. R. Morino, San Jose; contractor, Geo. Luebben, 843 Delmas, San Jose.
ADDITIONS, concrete, to school, \$268,000; owner, San Jose School Dept., San Fernando at 6th Sts., San Jose; architect, W. H. Weeks, 111 Sutter St., San Francisco; contractor, E. Nommensen, Commercial Bldg., San Jose.
RESIDENCE, six-room, frame, \$4590; Bird St. near Auzerai; owner, J. Curci, 444 Gregory, San Jose; contractor, J. Gaiotto, 233 West St. James, San Jose.
OFFICE and rest rooms for miniature golf course, \$1000; San Carlos and Almaden; owner, Oliver & German, 175 S 16th St., San Jose.
ALTER frame residence, \$1800; 1251 Yosemite; owner, Dr. R. S. Kneesh, 1251 Yosemite, San Jose; contractor, S. Di Fiore, 985 Hamline, San Jose.
RESIDENCE, six-room frame, \$5750; Mission St. near 2nd; owner, Gordon Robertson, 998 N 1st St., San Jose; contractor, Ira Brotzman, 5 Garfield Ave., San Jose.
RESIDENCE, 4-room frame, \$2,000; near St. James; owner and builder, E. J. Delmue, 120 N 24th St., San Jose.

ALTER frame residence, \$1,000; 621 Orvis; owner, F. Fuzzio, 621 Orvis San Jose; contractor, P. F. Williams, 2828 Pierce St., San Francisco.

BUILDING PERMITS

REDWOOD CITY

DWELLING and garage, frame, \$3,500; 1166 Clinton St.; owner and builder, J. G. Lehman, San Anselmo.
DWELLING and garage, frame, \$3,200; 1006 Iris St.; owner, Charles Angelini; contractor, F. Silho.
DWELLING and garage, frame, \$3,000; 1416 Oxford St.; owner and builder, F. E. Stevenson.

BUILDING CONTRACTS

MARIN COUNTY

RESIDENCE
SAN RAFAEL. All work for one-story and basement residence. Owner—Harry Albert and Wife. Architect—S. Heiman, 605 Market St., San Francisco.
Contractor—M. H. Vanderbilt.
Filed Aug. 23, '30 Dated _____
Rough coated\$4323
When plastered 4323
When completed 4323
Usual 35 days 4323
TOTAL COST, \$17,292
Bond, \$647. Surety, Commerce Casualty Co. Limit, forfeit none. Plans and specifications filed.

RESIDENCE
TOWN OF ROSS. All work for residence. Owner—Norman B. Livermore. Architect—Bakewell & Weihe, 251 Kearny St., San Francisco. Contractor—Young & Horstmeier.
Filed Aug. 25, '30. Dated _____
On 15th of each month 75%
When completed 25%
TOTAL COST, \$70,845
Bond, \$35,422.50. Surety, United States Guarantee Co. Limit, April, 1931. Forfeit, none. Plans and specifications fld.

CONCRETE. BRICK. ETC.
SAN RAFAEL, concrete, brick, painting, plumbing, etc., on 5-room residence. Owner—M. H. Keyes. Architect—None. Contractor—Ed. R. Beebe.
Filed, Dated Aug. 28, 1930.
When rough frame is up 25%
When rough plastered 25%
When completed 25%
Balance 25%
TOTAL COST, \$535.50
Plans and Spec. filed.

COMPLETION NOTICES

MARIN COUNTY

Recorded Accepted
August 29, 1930—SAN RAFAEL. Tisot & Clark to whom it may concern. August 22, 1930

Member Insurance Brokers' Exchange

FRED H. BOGGS
INSURANCE
490 GEARY STREET

Phone FRanklin 9400

San Francisco

August 29, 1930—SAN RAFAEL, Tis-
sot & Clark to whom it may con-
cern.....August 29, 1930
August 27, 1930—ROSS, Ross School
District to Fred H Field.....
August 22, 1930

BUILDING CONTRACTS

MONTEREY COUNTY

ADDITION
CARMEL, Lots 17 and 19 in Block B;
general construction on 1-story
addition to present residence.
Owner—E. A. H. and Doris E. Wat-
son, Carmel.
Architect—Not Given.
Contractor—Hugh W. Comstock, Car-
mel.
Filed Aug. 27, '30. Dated Aug. 16, '30.
Progress payments on 1st and 35th
of each month.
Usual 55 days.....25%
TOTAL COST, \$2868.93
Limit, 60 working days.

COMPLETION NOTICES

MONTEREY COUNTY

Recorded	Accepted
August 27, 1930—BOUNDED on the west by the Salinas-Los Angeles Highway; on north by Cattle- man's Lane and on east by S P right of way. Monterey County Ice & Development Co to E M Britt, H B Chadhowne and S L Weber.....August 17, 1930	
August 28, 1930—LOT 7 BLK 3, Ma- ple Park. Ernest F Reese to whom it may concern.....Aug. 28, 1930	
August 28, 1930—LOT 2 BLK 1, Ma- ple Park. Bruce E Baird to whom it may concern.....Aug. 27, 1930	
August 29, 1930—SOUTH Side of Katherine Avenue opp Pajaro St, Salinas. J H Graham to whom it may concern.....August 15, 1930	

RELEASE OF LIENS

MONTEREY COUNTY

Recorded	Amount
August 27, 1930—LOTS 1, 2 and 4 Blk 36, Pacific Grove Retreat, Pa- cific Grove, Tynan Lumber Co to California M Healey.....\$243.38	
August 27, 1930—BEING A portion of El Pescadero Rancho, Lot 50, which is shown on the amended map of Pebble Beach. Ray Burn- er Co to J W Perry.....	
August 27, 1930—BEGINNING at a point distant 133 feet N 75° 45' 03" east from the Sby corner of Lot 50 which is shown on the amended map of Pebble Beach, being a portion of El Pescadero Rancho. Stolder-Hinkelheim Co to J W Perry.....\$3794.50	

BUILDING PERMITS

STOCKTON

RESIDENCE and garage, \$3600; No.
440 S-Regent St, Stockton; own-
er, F. P. Dodson.

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded	Accepted
August 25, 1930—LOT 4 BLK 12, Crockett Heights. Esther M Coles to F J Schneider Aug. 15, 1930	
August 29, 1930—LOT 7 BLK 103, West Side Addn No 1, Pittsburg. Salvatore Ferrante to O Russo..... August 27, 1930	
August 27, 1930—ELY HALF of Lot 5 in Blk 28, Pittsburg, and ptn of Lots 2 and 3 Blk 47, Pittsburg. Frank J and Lucy K Golden to V	

Recorded	Amount
August 27, 1930—LOT 8 BLOCK 1, Crockett Heights. Herbert A De- lius to G A Pearson.....Aug. 29, 1930	
August 27, 1930—LOT 24 BLK 24, Richmond Annex. Fay Pierce to whom it may concern.....Aug. 22, 1930	

LIENS FILED

CONTRA COSTA COUNTY

Recorded	Amount
August 27, 1930—104 ACRES of land in the Pacheco Grant. W H Tim- mons vs W F Williamson.....\$511.40	
August 25, 1930—LOTS 1, 2, 3, 4, 41, 42, 43 and 44 Blk 1, Sub of Blk 1 W, Town of Rodeo. Detroit Steel Products Co vs V Valaine and Frank Lawrence.....\$347	

RELEASE OF LIENS

CONTRA COSTA COUNTY

Recorded	Amount
August 27, 1930—LOT 11 BLK 56, Pittsburg. Hutchinson Co, Inc to Vincenzo Todaro and Rizzo Gia- comina.....	

COMPLETION NOTICES

SONOMA COUNTY

Recorded	Accepted
August 29, 1930—LOTS 2, 3, 4, 5, 6 Blk C, Turner & Welch's Addn to Santa Rosa. Agnes L McCarthy to whom it may concern.....	
August 27, 1930—NW COR NASON and Beaver Sts, No 829, Santa Rosa. H T Mitchell to whom it may concern.....August 27, 1930	

LIENS FILED

SONOMA COUNTY

Recorded	Amount
August 27, 1930—52 FT on SOUTH side of Benton St near Morgan St, Santa Rosa. Crester & Wilson vs John and Alice M Arrigoni.....\$65.03	
August 27, 1930—W HALF LOT 10, Ludwig's Subdiv of Villa Farm Tract. Crester & Wilson vs Mr and Mrs Chas Montini.....\$80	
August 28, 1930—E HALF LOT 11, Ludwig's Subdiv of Villa Farm Tract. L A Drake vs Jim Montini and Charles Donovan.....\$39.40	
August 28, 1930—E HALF LOT 11, Ludwig's Villa Farms Tct. Cre- ster & Wilson vs Jim Montini and Charles Donovan.....\$80	

RELEASE OF LIENS

SONOMA COUNTY

Recorded	Amount
August 28, 1930—W HALF LOT 10, Ludwig's Subdiv of Villa Farms Tract. Crester & Wilson to Chas Montini.....\$80	

COMPLETION NOTICES

SAN JOAQUIN COUNTY

Recorded	Accepted
Sept. 2, 1930—LOT 3 BLK 11, Pa- cific Manor. Marvin A Rader to S C Giles.....August 28, 1930	

BUILDING PERMITS

SACRAMENTO

APARTMENT House, \$18,900; 1512-14
N St.; owner and builder, Gene
Pendergast, 1311 22nd St., Sacra-
mento.
RESIDENCE, 5-room, \$5800; 840 47th

St.; owner, G. A. Kaminsky, 1009
Dolores Way, Sacramento; con-
tractor, Jos. Pedrone, 914 S St.,
Sacramento.
REPAIRS, general, \$2600; 226 N St.;
owner, Mrs. I. Baltimore, 226 N
St., Sacramento; contractor, W. R.
Saunders, 2614 I St., Sacramento.

COMPLETION NOTICES

SACRAMENTO COUNTY

Recorded	Accepted
August 30, 1930—LOTS 5 and 6 BLK 5, Isleton. Foster Monez to whom it may concern.....August 23, 1930	
August 27, 1930—53rd and J STS, Sacramento. Sacramento City School District to whom it may concern.....August 18, 1930	
August 29, 1930—LOT 410 W & K Sub 17, Sacramento. J F Pierini to whom it may concern..... August 22, 1930	
August 29, 1930—PTN BLK BC 18 19, Sacramento. California Al- mond Growers Exchange to whom it may concern.....August 27, 1930	

LIENS FILED

SACRAMENTO COUNTY

Recorded	Amount
August 30, 1930—LOT 7 W & K, Tract 34. Capital Lumber Co vs Julia Bergh.....\$195	

COMPLETION NOTICES

FRESNO COUNTY

Recorded	Accepted
August 27, 1930—E ½ OF LOT 28, Bullard Lands Sub No. 1, Fresno. Wayne W Deming to whom it may concern.....August 26, 1930	

OFFICIAL PROPOSALS

NOTICE TO CONTRACTORS

State Office Building at Los Angeles

SEALED BIDS will be received by
Geo. B. McDougall, State Architect,
at the Office of the Division of Archi-
tecture, 1025 Associated Realty Build-
ing, Los Angeles, California, up to 2
o'clock P. M., Tuesday, September 30,
1930, thereafter on said day to be pub-
licly opened and read for the General
Work in connection with the erection
and completion of the State Office
Building at Los Angeles, California,
in accordance with plans and specifi-
cations were prepared by John C.
Austin, Architect, of the firm of John
C. Austin and Fredrick M. Ashley,
Architects.

The State Office Building at Los An-
geles will be a class A structure faced
with granite and terra cotta. It will
be located at the new Civic Center on
property bounded by First, Spring,
Broadway and Court Streets, all in
the City and County of Los Angeles,
California.

Bids will be received for the Gen-
eral Work, also alternative bids as
follows:

Alternative on omitting a terrace,
driveway and retaining walls, more
particularly as described on page 44
in the specifications.

Alternative on substituting terra
cotta with brick backing in place of
granite with brick backing for certain
portions, as more particularly de-
scribed on page 54 of the specifica-
tions.

Alternate on leaving the garage un-
finished as more particularly described
on page 122 of the specifications.

The "General Work" bid will em-
brace all branches of the work, except
as listed below:

Granite Work.

Structural Steel.
Electrical Work.
Elevators.
Plumbing Work.
Heating Work.
Ventilation Work.

Plans and specifications are on file for examination in the office of the Division of Architecture, 1025 Associated Realty Building, Los Angeles, and at the principal California Cities Builders' Exchange Offices.

Plans, specifications, and proposal forms may be secured by qualified licensed Contractors or by Contractors who will qualify by furnishing a verified statement of experience and financial condition as required by the provisions of Chapter 644, Statutes 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Questionnaire forms may be secured from the Division of Architecture, either in Los Angeles or Sacramento.

Bids will not be accepted from a Contractor to whom a proposal form has not been issued and all bids must be on proposal form supplied by the State.

Application for plans shall be made to the Sacramento Office of the Division of Architecture, Public Works Building, Sacramento, and shall be accompanied by a deposit of Fifty (\$50.00) dollars. Check shall be made payable to the Department of Public Works, Division of Architecture. Deposit will be returned upon receipt of the set in good condition, at Sacramento Office of the Division within 30 days after opening bids, otherwise it will be forfeited to the State. All bids must be filed on or before the time heretofore stated and in accordance with the "Rules for Bidding" accompanying the proposal form.

No bid will be considered unless cash, a bidder's bond made payable to the State of California, or a certified check made payable to the "State Engineer, Department of Public Works," in the sum of at least ten per centum (10%) of the amount of the bid is enclosed with the bid.

The Division of Architecture, State Department of Public Works, reserves the right to reject any or all bids and to waive any informality in any bid received.

DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE
GEO. B. McDOUGALL,
State Architect.
B. B. MEEK,
Director of Public Works.

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received by the Department of Public Works, Division of Highways, at the office of the District Engineer, 211 State Building, San Francisco, California, until 2:00 o'clock P. M., on Wednesday, September 17, 1930, at which time they will be publicly opened and read, for performing work as follows:

The erection and completion of a maintenance station in Mendocino County, about 3½ miles north of Ukiah which consists of the following group of buildings and appurtenances: Superintendent's cottage, truck shed, office and store house, loading platform, gasoline and oil house, septic tank, single wood shed, station sign and yard trellis.

The work of this contract comprises excavation, concrete and masonry work, carpentry and mill work; lathing and plastering, sheet metal work, painting, plumbing, heating and electrical installations.

Plans may be seen and forms of proposal, bonds, contract and specifications may be obtained at the above address.

A deposit of twenty-five dollars (\$25.00) will be required on plans and specifications, the deposit to be returned immediately on the return of the plans and specifications in good condition.

No bid will be received unless it is made on a proposal form furnished by the District Engineer. Each bid must be accompanied by cash or a certified or cashier's check made payable to the Director of Public Works, for an amount equal to ten (10) per cent of the amount bid, such guaranty to be forfeited should the bidder to whom the contract is awarded fail to enter into the contract.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
C. H. PURCELL,
State Highway Engineer.
By JOHN H. SKEGGS,
District Engineer, District IV.
Dated: Tuesday Sept. 2, 1930.

NOTICE INVITING BIDS

(Mechanical Equipment—San Joaquin County Hospital)

Notice is hereby given that sealed Proposals will be received by the Clerk of the Board of Supervisors, of the County of San Joaquin, State of California, at the office of said Board until 11 o'clock A. M., Monday, September 23, 1930, for furnishing all labor, material and equipment necessary for the following work, to-wit:

For the Mechanical Equipment Work, and certain work supplementary thereto, in connection with the First Unit of the San Joaquin General Hospital, located near French Camp, in the County of San Joaquin, State of California, all in accordance with the plans and specifications prepared by Frederick H. Meyer, Architect, and adopted and filed by the Board of Supervisors, August 25, 1930, and to

which bidders are particularly referred.

Immediately after 11 o'clock A. M., Monday, September 23, 1930, the Board of Supervisors of the County of San Joaquin will publicly open the bids received in the office of said Board of Supervisors in the County Court House in the City of Stockton, County of San Joaquin, State of California.

All bids must be made on Proposal Forms to be obtained at the office of the Architect, Frederick H. Meyer, or the Associates, Davis-Pearce Co., and presented in sealed opaque envelopes, marked so as to denote the contents and addressed to the Board of Supervisors of this County.

All proposals must be accompanied by United States Currency, Certified Check, Cashier's Check or Bond made payable to the Chairman of the Board of Supervisors in the sum of 10% of the amount of the bid. A bond of 50% of the contract price will be required of the successful bidder to guarantee the faithful performance of said contract and a like bond for the faithful payment and satisfaction of all lawful claims of all persons for labor and material furnished in the prosecution of said contract.

Contractors who desire to bid on the work may obtain a complete set of drawings and specifications covering all the work to be included in this proposal at the office of Frederick H. Meyer, Architect, 525 Market Street, San Francisco, California, or at the office of Davis-Pearce Company, Associate, Builders Building, Stockton, California.

A cash deposit of One Hundred (\$100.00) Dollars will be required on each set of plans and specifications, which deposit will be returned when plans and specifications are returned to the office where deposit was made.

If any contractor decides not to submit a bid, the Architect requests that the plans and specifications be returned immediately.

Progressive payments will be made.

Said work must be done in accordance with the drawings thereon on file in the office of the Board of

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of the New

DAILY PACIFIC BUILDER

The only daily construction newspaper affording complete coverage of the construction activities in Central and Northern California — featuring work contemplated, bids wanted, bids opened, contracts awarded, sub-bids wanted and sub-contracts let on all types of building construction; bridges, dams and harbor works, irrigation projects; machinery and equipment; water works and supplies; business opportunities; building permits; building contracts, mechanics' liens; acceptances, etc., etc.

Keep informed on construction developments in Central and Northern California, and the major projects in Southern California, the states of Oregon, Washington, Nevada and Arizona.

Supervisors, to which reference is hereby made and must be commenced within five (5) calendar days and completed within 300 consecutive days from the date of the contract to be made and entered into therefor, and/or concurrently with the time set as date for completion of the General Contract Work.

The Board of Supervisors reserves the right to reject any or all bids.

By order of the Board of Supervisors, made August 25th, 1930.
(SEAL)

EUGENE D. GRAHAM, Clerk.
By J. H. PLUMMER, Deputy Clerk.

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received at the office of the State Highway Engineer, Public Works Building, Sacramento, California, until 2 o'clock P. M. on September 24, 1930, at which time they will be publicly opened and read, for construction in accordance with the specifications therefor, to which special reference is made, of portions of State Highway, as follows:

Trinity County, between Westerly Boundary and Burnt Ranch (I-Tri-20-C), portions about eight-tenths (0.8) mile in length, to be graded.

Colusa County, between Williams and Maxwell (III-Col-7-B,C), about eight and one-tenth (8.1) miles in length, to be surfaced with a gravel base.

El Dorado County, between Clark's corner and Placerville (III-E-D-11-C), about one and seven-tenths (1.7) miles in length, to be graded and surfaced with untreated crushed gravel or stone.

San Mateo County, through South San Francisco (IV-S.M-68-A), about nine-tenths (0.9) mile in length, to be graded and paved with Portland cement concrete.

Proposal forms will be issued only to those Contractors who have furnished a verified statement of experience and financial condition in accordance with the provisions of Chapter 644, Statutes of 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Bids will not be accepted from a Contractor to whom a proposal form has not been issued by the Department of Public Works.

Plans may be seen, and forms of proposal, bonds, contract and specifications may be obtained at the said office, and they may be seen at the offices of the District Engineers at Los Angeles and San Francisco, and at the office of the District Engineer of the district in which the work is situated. The District Engineer's offices are located at Eureka, Redding, Sacramento, San Francisco, San Luis Obispo, Fresno, Los Angeles, San Bernardino and Bishop.

A representative from the district office will be available to accompany prospective bidders for an inspection of the work herein contemplated, and Contractors are urged to investigate the location, character and quantity of work to be done, with a representative of the Division of Highways. It is requested that arrangements for joint field inspection be made as far in advance as possible. Detailed information concerning the proposed work may be obtained from the district office.

No bid will be received unless it is made on a blank form furnished by the State Highway Engineer. The special attention of prospective bidders is called to the "Proposal Requirements and Conditions" annexed to the blank form of proposal, for full directions as to bidding, etc.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

DEPARTMENT OF PUBLIC WORKS,
DIVISION OF HIGHWAYS.

C. H. PURCELL,
State Highway Engineer.
Dated August 27, 1930.

"Short-term financing to meet the family needs brought about by its temporary impairment of ready cash resources, as frequently happens in business enterprises, has been made possible through the employment of one or more forms of what is known today as consumer credit," Hoopinger stated. In this connection he pointed out the important part played by consumer credit agencies as an aid in home financing. "Often a few hundred dollars cash, when badly needed, will do just as much to save a home as they do to help buy one at the start. There are many instances in which the utilizing of the family credit to secure a few hundred dollars in ready cash has prevented possible foreclosure on a home, and through the paying back of such loans by periodic payments of principal and interest spread over a substantial length of time, just as is found in the instalment payments on building loans themselves, the family has experienced no burden but on the other hand has conserved its capital assets and often actually added to its savings."

The speaker quoted from a survey made by the State Banking Commission in Wisconsin which showed that nearly one-fifteenth of the \$2,000,000 volume of credit extended through the legalized small-loan companies in

that state for the year 1923 went for the purpose of paying taxes, alone. "In Virginia an analysis of similar loans showed that nearly one-third of them were made for such purposes as to buy real estate, pay past due rent, pay past due insurance premiums, pay taxes on home property, make repairs on home, pay for fuel for the winter, etc. In another large industrial state 33.7% of the total number of such loans were found to be employed for such purposes as payments on home and home site, taxes, rent, repairs on home, coal, moving expenses and household miscellaneous."

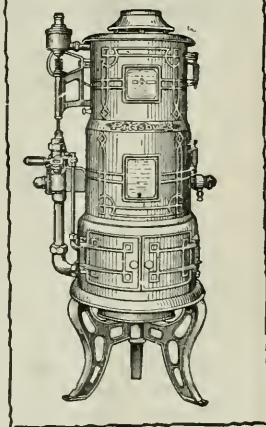
"Co-operation in home financing," the speaker emphasized, "is necessary among all responsible agencies in developing and making effective proper standards of financing, design, materials and workmanship in home building as well as in permanently safeguarding the credit standing of the home owner in all of its phases." "The more such proper standards of quality construction and sound financing in home building and home maintenance can be maintained," the speaker concluded, "the safer will be the investment in the home and the more the prospective home owner's savings will go into a home of his own; and, therefore, the more the savings of our people in general will flow into home ownership instead of into other fields of investment."

S. F. WATER DEPARTMENT ADDS
153 WORKERS

One hundred and fifty-three employees have been added to the San Francisco Water Department since the city took over the system from the Spring Valley Water Company.

This addition, which represents a payroll increase of \$18,635 a month, was revealed by Nelson Eckart, manager of the system.

New construction work, and the speeding up of projects which the Spring Valley Water Company had left unfinished, made the increase necessary.



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Published Every Saturday
Thirtieth Year, No. 37



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Delay In Ordinance Adoption Halts Building

Failure of the Board of Supervisors to enact a proposed ordinance designed to protect banks and other construction investment concerns is holding up an extensive building program in San Francisco, according to John B. Leonard, superintendent of the Bureau of Building Inspection of the Department of Public Works.

The ordinance, providing for a list of certified building experts who would safeguard banks in making construction loans, has been before the supervisors for more than a year.

The board failed to approve it last Tuesday, action being postponed for two weeks.

"We can expect little if any large construction in the city until the ordinance is approved," said Leonard. "The banks want to protect their investments and we can hardly blame them."

"The proposed law authorizes selection of building experts, who would have to take a thorough examination before appointment. These men, for a nominal fee which the contractors would have to pay, would be on the job to compel builders to live up to loan contracts—thus performing the double duty of seeing that specified materials were used and that the banks were not fleeced."

Under existing building law, the banks are at the mercy of unscrupulous contractors, Leonard claims.

"This type of builder obtains \$1,000,000 from a bank to erect a building, by presenting plans which show that he contemplates a piece of construction to warrant such a loan."

"After he gets the money he makes changes in the plans which only an expert can detect. By doing this and using inferior materials he can pocket several hundred thousand dollars, and when the bank is forced to foreclose it finds itself fleeced."

"The inspectors provided in the ordinance, being city officials, would remedy this condition. They would protect the investor and the public at the same time."

Leonard said that the banks are refusing to make construction loans until they are assured of adequate protection.

"Plans for five or six large buildings have been drawn," he added. "Sites for them have been selected. They represent investments of more than \$10,000,000, and provide work for thousands of men. The banks would gladly advance the money if protected, but they will not move until their money is safeguarded. I can't blame them."

According to Leonard, the experts would draw no pay from the city, and enactment of the ordinance would not cost taxpayers a cent.

The Electrical Contractors' and Dealers' Association of San Francisco announces a change of name to the "San Francisco Electrigists."

REVISIONS IN CEMENT SPECIFICATIONS ADOPTED

Revisions in the Standard Specifications and Tests for portland cement, involving an increase in tensile strength requirements and the fixing of tolerances for the various pieces of apparatus used in testing cement, have been adopted by the American Society for Testing Materials following a favorable vote by the society's membership in a canvass held this month.

Eleven items in all were included in the revision, of which nine were concerned with tolerances for testing apparatus. According to the original report of Committee C-1 on cement of the society, lack of definite information on tolerances for testing apparatus in the former standard made it practically impossible to determine whether equipment did or did not meet specification requirements.

Revisions in the strength requirements include a change in the average tensile strength at seven days for the three standard mortar briquets from a minimum of 225 lb. per square inch to 275 lb. per square inch, and a change in the average tensile strength requirement at 28 days from a minimum of 325 lb. per square inch to 350 lb. per square inch.

These revisions in strength requirements will bring the minimum values more in line with the general strength level maintained by portland cement plants throughout the country. According to the committee's report, a survey of tests by 116 plants made during the latter half of 1928, indicated that only a small percentage of the samples tested failed to meet the new standard tensile strength requirements at the seven day and 28 day periods.

Specifications for high early strength portland cement were accepted for publication as tentative by the society's Committee E-10 on Standards, at its February 1930 meeting. Tentative specifications are the same as the newly revised specifications for portland cement, except that a maximum sulfuric anhydride content of 2.5 per cent instead of 2.0 per cent is permitted and that tensile strength requirements shall be 275 lb. per square inch at one day, and 375 lb. per square inch at three days. In addition, the purchaser has the option to require a test at 28 days in which the average tensile strength obtained shall be higher than the strength at three days.

Copies of the revised specifications for portland cement, and of the tentative specifications for high early strength portland cement, may be purchased from C. L. Warwick, Secretary-Treasurer of the American Society for Testing Materials, 1315 Spruce Street, Philadelphia, Pa.

National Ornamental Iron and Bronze Co., Inc., 431 Ninth street, San Francisco, has been admitted to membership in the San Francisco Builders' Exchange.

Educate Public To Building, Says George

In the current issue of the National Association of Builders' Exchanges bulletin, Wm. H. George, of San Francisco, president of the national association, answers questions on "Costs" and "Taxation." They follow:

(1. Question). Why is there somewhat of a stagnation in the construction industry at the present time?

(Answer). Because during the boom which the country has just passed through, building requirements generally were anticipated and we are now overbuilt.

(2. Question). If it is true that there is, however, coming up right along, special construction for special purposes that are needed by various industries, the state and country, why is it that banks and private parties controlling capital are reluctant to loan money for this kind of construction?

(Answer. A). Because they have not been educated to understand the soundness of this kind of investment.

(B). Because taxes are so high that they are afraid that if depression comes improvements will not rent for enough to pay taxes and reasonable interest on the investment.

(3. Question). What can be done to improve the tax question?

(Answer. A). Educate the public to protest against expansion of governmental activities of all kinds which require money and tax eaters.

(B). Send men to public office who will demand less government and more efficiency, more help to business and less chastising of business. Less tax eaters and less taxes."

UNIFORMITY OF AMERICAN PRODUCT SELLS ABROAD

A prominent engineer and corporation executive in a discussion in a meeting held some time ago in connection with The American Society of Mechanical Engineers stated that, although American structural steel costs more abroad than European steel, it was possible to construct buildings, using the American product, at a smaller total cost on account of its higher uniformity which permits the factor of safety required to compensate for irregularities in composition, dimensions, etc., to be somewhat reduced. The same man reported the case of an Englishman who spoke with some irritation of the high prices charged by American manufacturers for a certain steel which he used in machine production processes, and when asked why he did not buy a locally made steel to save this extra money, explained that he preferred to pay the higher price for American steel because of its great uniformity of composition and quality markedly reduced manufacturing costs and simplified tooling and inspection difficulties throughout the plant.

THE BUILDING INDUSTRY—IS THERE ANY? ASKS OUTSIDER

By Walter W. Hoops, Vice-President, Carroll Dean Murphy, Inc., in
"Printers' Ink"

There is a real challenge to advertising in the conditions—and also the opportunities—existing today in the building industry. I am referring here especially to the market for the more modest homes ranging in cost from \$10,000 down. The demand for "a home of our own" is universal; everybody wants one. Moreover, the majority of people thus aspiring to ownership have the capacity to pay. The producing power of the American wage-earner, the greatest of its kind in the world, is the force with which these aspirations can be backed up.

By all the rules of merchandising, therefore—rules that apply resultfully in the marketing of trade-marked commodities in general—home-building should now be progressing in rather an active way notwithstanding the cylinder depression which, combined with last fall's stock market crash, now presents something of a problem to current business. Yet we have the strange spectacle, comparing present conditions with those of 1926, of home-building being off possibly 75 per cent and employment in building lines cut fully in half.

One could say of any industry that there is "something the matter"—that, ideally, conditions could and should be better here and there. But that sort of viewpoint is not what I have in mind. Within the building industry there is a real issue, a definite problem, a vitally distressing situation.

What is going to be done about it and wherein is the challenge to advertising? The obvious answer is that a plan should be worked out, in a big national way, whereby the aspiring home-owner can make his purchase with at least an approach to the business procedure that obtains when he gains possession of any other worthwhile thing in which he may be interested. It is true that such operations have been going on in a limited way for the last two years. But they are sporadic and lack cohesion; they should be national in scope and thus make the building industry an industry in fact as well as in name—which it isn't right now.

The Plan of the Mail-Order Houses

The leading mail-order houses, for example, have launched a plan which provides, roughly speaking, that the home buyer shall be financed to the extent of 75 per cent of his purchase. This plan is meeting with startling success, despite the plainly apparent deficiencies and handicaps under which it labors. Even though the mail-order houses, except in a few isolated instances, have no local outlets and cannot take advantage of the selling prestige attached to nationally advertised materials for the reason that they do not handle them, they have done so far this year as high as 40 per cent of the small-home building in several cities. . . .

And right there is the challenge. The salability of nationally advertised trade-marks in building materials can be united with organizing genius. That this has not been done up to now is due primarily to the fact that the deplorable conditions about which I am speaking are subjects on which there is little agreement either within the industry or among its critics. This lack of agreement and correct visualiza-

tion is due to the utter lack of organization in building. President Hoover himself has become much concerned about the astounding building situation—so much so that he called a Building Survey Conference which met recently in Chicago. The net result of that conference was a resolution that a small committee be appointed to do further surveying and then to name a larger committee to represent all important elements in the business. But those in closest touch with conditions have no great hopes from this move beyond a possible loosely operating number of groups which will lack unified purpose because the building industry is not one industry but many.

What do we mean when we speak of the building industry? All who take part in building? That would mean the village carpenter who comes to repair your front porch, the small house contractor, the apartment house and skyscraper contractor. It would mean the great lumber, cement and other building material companies of all sizes down to the little manufacturer of sash pulleys, and the local concrete block plant. It would mean all the sub-contractors of all sizes in various trades. Also real estate subdividers and speculative house builders who consider themselves a part of the building industry. Any attempts to organize such varied activities and interest into anything which will cohere would appear impossible if it were desirable.

Group Consciousness

But the building industry is sub-organized by groups and has keen group consciousness. The manufacturers of similar lumber species have each their own group—redwood, oak, maple, white pine, yellow pine—and they are put together in the National Lumber Manufacturers' Association, which seeks to make lumber the preferred building material. Face brick, common brick, cement, lime—all of these are group conscious, organized, seeking preference for their products.

The lumber dealers have a national organization and so have the more important contractors—more group consciousness. This group idea is sound and natural as far as it goes. What it proves it that there is no such thing as a building industry—in the sense we mean when we say automobile industry. It is in fact a contract or job business.

If 95 per cent of all automobiles were built to order, if each one were built according to its owner's fancy, if it were built by local contract automaker who built five to ten a year, if he purchased his parts from the local parts dealers, if he took 10 per cent to 15 per cent down payment, if he got the rest of the financing from two different sources locally, if he gave the customer from five to 15 years to pay—but what's the use? If the automobile industry were operated that way it wouldn't be an industry. It wouldn't be organized. It would be the same crazy quilt of independent jobs that we see in the so-called building industry.

Furthermore, the automobile would not be the wonder of the world for the ever increasing value put into it. Well, you just can't think of the

automobile industry so disorganized. Yet we have to face the fact that the so-called building industry is just such a non-industry and that many of the difficulties to which it is recurrently subject arise because it is what it is.

If we were going to do any constructive thinking we must separate this vast variety of operations on some basis that puts like with like. So let us narrow the inquiry down to the construction of homes under \$10,000, which includes about 85 per cent of all homes built.

Of all kinds of construction, home building is currently the most depressed below previous records. For two years it has been thought to be at low ebb, but now it is lower than ever. The reason stated is lack of mortgage money, which on the surface is true. The underlying reason is a past over supply of mortgage money, over lending and speculative building, with no control of output or sales policy.

This cycle of easy money and much building, followed by tight money and little building, has been going on for many years, but the money ease and the resulting stimulation of the last peak were far greater than ever before. Thus the valley of depression is correspondingly more severe. It seems indeed strange that this valley of depression should have lasted so long. Never before have the American people had so much money with which to build homes as in these last two years. Never before have they had so much to put into savings banks, buildings and loan associations and life insurance. Yet they cannot borrow enough to build the homes they want. Yes, it seems strange until you realize how it was brought about.

When mortgage money was easy, lenders and their agents could not find enough good loans. The capital had to find employment, so it went into poor loans, which, since everybody was taking them, somehow or other managed to look good. Now so many of these poor loans have been proved to be so very poor that capital has lost confidence in appraised values of homes, and even good, sound loans are going begging for capital that refuses to believe.

Mortgage Money and the Stock Market

It has been popularly supposed that the supply of mortgage money in 1928 and 1929 was limited principally by more attractive opportunities in the stock market. Last summer, for instance, it was said that mortgage money was hard to get because much greater interest was forthcoming on call money in Wall Street. But this is true only to a limited extent. Insurance companies are the great source of mortgage money for home construction and they are not at all speculative in their operating plans. The chief problem of these companies during the last two years has been to find desirable mortgages. The truth is that the very ease of mortgage money supplied largely through the sale of collateral trust bonds and building and loan association stock has caused the misuse of this money by speculative dealers.

What made so many of these loans

poor loans? Take one example. A contractor is building a house for you. Mortgage money is easy and there is a vacant lot near by. He decides to build a house on his own account while building yours, because he can borrow almost the entire cost—the friendly lot owner going into the deal with him. As soon as the two houses are up and you are living in yours, he begins to figure he ought to make more than a contractor's profit on the other one. Soon you have a new neighbor who paid \$2000 more than you for, let us say, an identical house and lot. This establishes a new scale of "values." Selling houses at such profits looks like a good business, so the contractor finds a speculator who is willing to go into building several houses.

Suppose we had a building industry with several independent units organized from top to bottom, as we have in that, famously organized automobile industry, which was once largely an aggregation of parts makers.

Suppose these great national corporations are engaged in marketing complete homes everywhere in the United States. Operating through dealers; arranging economical financing; controlling construction and prices to insure value, volume to insure market; building quality houses through the use of nationally advertised materials. Such houses of real value, with the inflated speculative element absent, would not want for mortgage money; there is plenty of it to be had under those circumstances.

All the factors necessary to start several such firms are already in existence. The laborers and contractors and sub-contractors to execute the jobs—enough of them everywhere to insure keen bidding and close prices. Lumber dealers are everywhere handling all kinds of building materials. Each ready and willing to act as the focal point in his locality—the outlet. If you please, for one of these proposed large corporations. And there are enough lumber dealers nighly everywhere to make outlets for several such corporations and to secure competition between them.

There are hundreds of millions of dollars a year available from insurance companies seeking high grade, rock bottom mortgages on modest homes. There are hundreds of thousands of investors willing to buy collateral trust bonds, based on such mortgages when the character of the operations is made known.

Then why is this not being done? In the first place the idea has only crystallized in the last year. During the last six months it has become more or less understood by some manufacturers of building materials in some of the groups mentioned above. But by and large, the true reason the idea has developed no further is because of the too prevalent idea that it is somebody else's job.

Here, then, is a great opportunity for a few leading manufacturers of building materials to get together on this, purely on the basis of self interest, because, it could be operated to require the sale of the products. It is an opportunity for the investment banker to be the father of the finest mortgage bonds ever issued, based on the security which is our industries—the earning power of American workers. It is an opportunity for a life insurance president to make his company's loans, not all to seekers for money who always try to borrow the utmost, but to individual home owners to whom he has insured

good value by fathering the plan. It is an opportunity for advertised items in the building material line to cash in on a larger part of the salability, the consumer good-will, that has been created for them.

What the situation plainly needs is the will to study, master, grasp and promote the thing. Once in operation it will be recognized by all as being simple, natural and obvious. Wanted: a leader.

Home "Speculative" Projects Are Needed

In so far as business recovery depends upon expansion in building, it hinges chiefly on revival of residential construction—that means an expanding market for homes, says The Business Week. The rapid rise of public works and utilities construction this year, to the highest levels on record, has not compensated for the lag in residential building. The idea that a building boom and accompanying business revival may be generated by these kinds of construction has been exploded by a fairly definite test this year—perfect in most respects except that some preliminary planning might have put projects in process a bit earlier.

It was residential building that lifted business out of the 1921 slump. It is still houses that count. Residential building so far has run 48% behind last year, according to Dodge's figures, non-residential only 13% behind, public works and utilities 21% ahead of 1929.

There are some faint signs of pick-up. Residential contracts, measured in terms of index numbers which take account of seasonal fluctuations, have risen in the past few months, slipping back a little in July, but remaining above the low point reached early this year. There is every evidence that residential building has passed the low point. It must be remembered that it has at least two years of steady and rapid decline behind it.

Real estate activity as measured by number of transactions has been declining ever since 1925. Small house building reached its peak in 1925 and has been declining ever since. Residential building of all types for the entire country has been falling since early 1928. After a depression of such duration and severity it is to be expected that the liquidation of residential oversupply will be completed by the end of this year. The National Association of Real Estate Boards says the ratio of supply and demand in single-family and apartment houses is already healthy and normal.

Indications are that the revival of residential building will not come through houses erected singly, but through what is loosely and often unjustly called "speculative" building. Expenditures for this type, according to Dodge, have fallen off only 1% between the peak and low point of this building decline, for hotels 33%; for apartments 56%; for large scale house development projects 56%. It is in the last two classes that the depression has been worst, and that the recovery must and probably will come. They include normally about two-thirds of the total investment in residential building.

The depression may have resulted in improving the character of financing of building projects and real estate developments, putting them into stronger hands, eliminating the shoe-string operators, at least temporarily; but there is no reason to believe that

any great expansion of residential building can come without the large scale speculative production of housing for sale or rent in the form of real estate developments or apartment houses. It is into these channels that money flows easiest. Moreover, these types of building lend themselves best to lower-cost large scale production methods and so to a wider market demand.

It is in this field that technological improvements in materials and methods of construction to cut costs are being developed most rapidly. Whether the factory-built and locally assembled single house or the mechanically constructed apartment will win out remains to be seen; in any case, it appears that another boom in residential building must be a matter of large scale production and sale, at lower cost.

ARCHITECTS MAY SUPERVISE WORK THROUGH OTHERS

An architect may supervise work through others employed for that purpose and personal appearance on the job is not necessary in the opinion of Judge Leon R. Yankwich of the superior court of Los Angeles County, who gave judgment in favor of W. Douglas Lee against Fred Horowitz, attorney and owner of the fashionable Chateau Marmont apartment house in Hollywood, says Southwest Builder and Contractor.

Mr. Lee, who is an architect, and also a builder, had a contract for the construction of the concrete shell of the building for which he was to receive \$74,500. In addition to that, he was to supervise construction of the building. For this portion of the work he was to receive \$14,000. He sued for \$27,314.61, alleging that \$12,065 was due him on the building of the shell, \$10,958.15 on the supervision, and \$4290.85 for extras.

Horowitz contested the claim. He contended that Lee had broken his contract for supervision by not being on the job at least once a day, as required by the contract. He also claimed damages for faulty supervision.

The case was originally tried by Judge Edward W. Engs of Oakland, sitting in the Los Angeles superior court. He heard the evidence for several days, but died without deciding the case. It was therefore necessary to retry it. The retrial occurred before Judge Yankwich and lasted nine days. The plaintiff was represented by Patterson, Bailey & Montgomery. The firm of Willebrandt, Horowitz & McCloskey represented Horowitz.

Judge Yankwich gave judgment for the plaintiff in the sum of \$23,939.59. He allowed Lee the full contract price of supervision. This is taken as a ruling that, although an architect may not be personally present on the job, he is nevertheless entitled to compensation if the supervision is done under his direction. This on the theory that it is a substantial performance. Judge Yankwich allowed Horowitz \$3201.21 on his counter-claim for damages alleged to have been suffered through defective construction resulting from failure or defective supervision.

Judge Yankwich's ruling is taken to mean that one who is hired to supervise construction may exercise supervision through others. So doing, he substantially complies with his agreement. It is also taken to mean that the owner may recover from the supervisor for any defects in the work done by the sub-contractors, where it appears that they might have been avoided by more careful supervision.

THE OBSERVER

What He Hears and Sees on His Rounds

At a meeting of the Interstate Merchants' Council held in Chicago, 2,200 middle west retailers heard experts advocate aggressive campaigns to spur sales. Different speakers emphasized the fact that extensive advertising would get business whether there is a depression generally or not.

"Advertising has made this country as progressive as it is today," said V. B. Russell of the Dennison Manufacturing Company, who gave one of the addresses on the program. "It is the guiding star for mass production that has made it possible for the great middle class to live like kings. Advertising might be compared to light houses, the guiding light over poor business to a better day, and if we follow that guidance wholeheartedly we shall have very little to worry about."

"If you had a small boy and the bully of the streets were attacking him, would you wait until the fight was over or get into the scrap? You would assist him when he needed it of course. The moral is, don't desert your business when hard luck has pounced upon it, but bring to it the reinforcements of vigorous advertising and promotion."

Wm. H. George, president of the National Association of Builders' Exchanges and president of the San Francisco Builders' Exchange, has been selected by President Hoover to serve on the "Planning Committee" of a group selected to study home building. The conference is to be organized by a planning committee composed of representatives of the principal national interested groups.

Secretary of Commerce Robert P. Lamont is to be chairman and John M. Gries, who for several years was chief of the Division of Building and Housing in the U. S. Department of Commerce, will serve as executive secretary.

The conference will deal with such questions as finance, design, equipment, city planning and transportation.

The date of the conference will be determined by the planning committee. Funds have been provided privately to cover the entire research and other activities of the conference.

Architectural interest in Philadelphia will shortly center largely in the new 24-story Architects' Building now rapidly nearing completion and probably the most pretentious building of its kind in the United States. Completed it will represent an investment of close to \$2,500,000.

The building is owned by the Architects' Building Corporation, Inc., among whose stockholders are most of the local architectural firms. John Hall Rankin is chairman of the board and associated with him are Walter Thomas, vice-chairman; Geo. I. Lovatt, committee on materials; Philip H. Johnson, committee on supervision, and Victor D. Abel, executive in charge.

All but two floors of the building have been rented. The local chapter of the American Institute of Architects will have headquarters, including a library, on the top floor. The nine upper floors have been leased exclusively as architects' offices. At least one floor will be used for material exhibits.

That there is always a better way to do the job and that workmen are showing keen interest in trying to find that better way is indicated by a report of the General Electric Company showing that for the first six months of this year \$56,974 was paid to employees for suggestion of plans to improve their jobs. For the first half of the present year a total of 17,474 suggestions were made and 5616 were adopted, as compared with 13,200 suggestions offered the first six months of 1929 and an adoption of 3953 for which \$49,586 was paid employees.

California is beginning to climb out of the financial depression which has characterized the past few months throughout the country, according to a report made at the governor's council meeting by Will C. Wood, director of the state department of finance.

During the month of August, bank deposits, and particularly savings bank deposits, have continued their upward trend, the report said.

"While it is too early to draw the conclusion that business will show any decided improvement during the next two or three months, we have good evidence that there is a better tone and a more optimistic feeling among business men generally," Wood declared.

New applications filed for permits to sell securities continued to show an increase over the average number of applications during July, the investment director said.

Those plumbing contractors who think that the California State law requiring all contractors to have a state license, has no teeth, will be interested in knowing that a registered master plumber, T. O. Baldwin of Los Angeles, was fined \$100 for contracting work when he did not have a state license.

In the investigation made by the department of Professional and Vocational Standards, it developed that Mr. Baldwin had been contracting work without a state license, and before securing a license had sold a water heater to an owner on a lease contract. In addition to the fine, his license, secured subsequent to the alleged offense, was revoked pending adjustment of a claim by the manufacturer of the water heater.

The state law stipulates that diversion of funds, abandonment of work or failure to complete work, fraudulent departure from or disregard of plans and specifications, without consent of owner, wilful disregard and violation of state or municipal code or the safety laws or the labor laws of the state is unlawful and punishable by a fine not to exceed \$500 or imprisonment in the county jail for a term not to exceed six months, or by both fine and imprisonment.

Latest practices and methods in the matter of finding successful locations for industries will be brought before the two-day regional conference of the Industrial Property Division of the National Association of Real Estate Boards, to be held in Detroit, Mich., October 27 and 28.

Just what use can the industrial location expert make of the new census figures? Fred A. Gossnell, field supervisor of the Bureau of Census Distribution of the United States Department of Commerce, has calculated ways in which the newly compiled government statistics can be used in the selection of locations for industrial plants. Mr. Gossnell will report the results of his study of this matter before the conference in his address on "Using Census Figures as an Aid in Selecting Locations."

The man who would be successful in locating industries must have a complete understanding of the factors which govern the fortunes of industries, and those factors are not simple, stable influences, but are the constantly developing and changing and improving processes on which industry is dependent. Professor L. C. Sorrel, of the University of Chicago, will discuss in detail two of these factors at the Detroit meeting. Professor Sorrel will speak on "Recent Changes in Transportation and Marketing Affecting Plant Location."

C. E. Ward, New York City, industrial commissioner for the Erie Railroad Company, will address the meeting on "The Development of Industrial Property From a Railroad Point of View."

The Detroit conference will be attended not only by industrial realtors, but also by industrial location specialists from railroad companies, public utilities concerns and chambers of commerce.

A recent discovery of far-reaching importance and interest to home owners and prospective builders makes available grainless all-wood floors that may be worked into any pattern and finished in a variety of colors, tile or natural wood effects to beautify every room in a house according to the owner's individual tastes, said Brown Katzenbach, vice-president of the Masonite Corporation, in a talk before the meeting of interior decorators in Chicago.

"The trend in modern home building," said Mr. Katzenbach, "is to have 'natural' floors throughout the entire house that are both decorative and easy to keep clean, which eliminate the necessity of using expensive coverings. Such floors, within the reach of the average home builder's pocketbook, are now available through the discovery that by the application of an inwood finish to pressed wood boards, any design of colored pattern or natural wood effect may be obtained. The finish has a penetrating property that makes it an integral part of the grainless wood base and seals the surface against wear and dirt, obviating the necessity of frequent renewal of surface covering. Architects and builders say this discovery is one of the most important developments in house construction in years, as the combination gives an exceptionally durable, attractive and economical floor covering that can be laid at a nominal cost."

HINT FOR DRAFTSMEN

All draftsmen know that a pencil which drops or rolls off the drawing table almost invariably strikes point first, necessitating resharpening. To overcome this tendency, remove the metal tip holding the eraser from a pencil of that type and fill it partly with lead. This tip, when slipped on to the end of a drawing pencil, will cause the heavy end to strike the floor first and obviate much breakage. The same idea can easily be applied to lettering pens, ruling pens and similar instruments which may be damaged by falling.—Morton Schwalm, Philadelphia, Pa.

ALONG THE LINE

R. H. Thomson, who served as city engineer of Seattle, Wash., under a number of administrations previous to 1912, has been named to succeed William D. Barkhuff, who was killed in an automobile accident last month. Since leaving the service of the city, Mr. Thomson has been engaged in private practice.

Link-Belt Co., Chicago, Ill., announces the appointment of William Piez as European correspondent, with headquarters at Paris, France.

Ephraim Field, architect, formerly located at 318 American Bank Building, Oakland, announces the removal of his offices to 1535 Shattuck Avenue, Berkeley.

HERE — THERE —
EVERYWHERE

The American Society of Heating and Ventilating Engineers, a national organization, recently granted a charter for the formation of a Southern California chapter of the society. Headquarters are at Los Angeles.

The membership of the new chapter at present exceeds fifty. The officers of the new chapter are: O. W. Ott, president; E. L. Ellingwood, vice-president; H. B. Keeling, secretary; Leo Hungerford, treasurer.

The International Congress of Architects will be asked to hold its 1931 meeting in the United States, it is announced by the American Institute of Architects. The opening sessions are planned for Washington in connection with the annual convention of the institute. Later the congress would convene in New York, and, as a part of the architectural program of the World Exposition, in Chicago.

Five city officials will represent Alameda at the annual State convention of the California League of Municipalities at Long Beach the week of October 7. They are: City Manager C. E. Hickok, City Attorney Edward J. Silver, City Clerk William E. Varcoe, City Engineer Burnett Hamilton and City Physician Arthur Hieronymus.

PROSPERITY'S INDEX

The index of prosperity. In the opinion of Irving Fisher, Professor of Economics at Yale, horsepower used per worker is the best index of a nation's prosperity.

"Steam and electricity," he says, "more than all else, have increased the worker's pay, shortened his working day, increased his leisure time and revolutionized the world economically, socially and politically. In the short period between 1919 and 1925, inclusive, primary power per worker increased by 36.5 per cent, and this largely explains the even greater increase in productivity per wage worker—53.6 per cent between 1919 and 1927. In the United States, where power is most highly developed, wages are the highest in the world. In China, Mexico, India and other countries where power is least developed, wages are lowest."

TRADE NOTES

Weyerhaeuser Sales Co. (lumber), has opened a district sales office at 260 California Street, San Francisco, with W. E. Barwick in charge. A district office to cover the Southern California and Arizona territory has also been opened in the Chamber of Commerce Building, Los Angeles, with W. H. Morrison as district manager.

California Pacific Lumber Co., Ltd., of Los Angeles, with offices in the Citizens National Bank Bldg., Los Angeles, has been formed to conduct a wholesale business in Southern California, handling soft woods from the Pacific Northwest. Robert Forgie is president and manager; W. J. Nichols, secretary and treasurer. F. B. Cobb, the third owner, is a director.

Vista Del Rey Plumbing and Heating Supply Co., operated by E. Raymond Gardiner, has opened new quarters at the Junction of Lake street and the Castroville highway in Seaside, Monterey county. The company will engage in a general plumbing and heating business.

Construction of a new plant on a ten acre site on the Waterloo Road at Stockton, will be started within two months, it is announced by R. E. Le Tourneau, president of the Le Tourneau Manufacturing Company, builders of earth-moving and road building equipment. The new plant will be of steel welded construction and will cost \$40,000.

Work is nearing completion on the new \$100,000 plant of the Calrock Asphalt Company on the Santa Cruz-Davenport Highway, six miles northwest of Santa Cruz, and crushing operations will be started within sixty days. J. E. Hays is manager of the Calrock Company.

TERMITE PUBLICATION ISSUED
BY U. OF C.

A new publication on termites has just been issued by the experiment station of the college of agriculture, University of California. It is known as Circular No. 318 and is titled "Termites and Termites Damage." The result of two years' intensive research on termites and investigations as to the best methods of repairing structures damaged by termites and of preventing their attacks by proper building methods, it gives the most complete and authoritative information on these subjects published to date.

In addition to laboratory and field research the practical experience of architects, building inspectors, industrialists, and others concerned with housing problems was used to make the publication as up to date as possible. It abounds in illustrations which makes information readily available to all.

The circular is divided into three parts: (1) biological information; (2) the use of chemicals in termite-proof construction and repair work, and (3) construction methods.

Copies of the circular may be obtained from the college of agriculture of the University of California at Berkeley.

Additional information on termite damage may be obtained from the termite investigations committee at 215 Market street, San Francisco.

TRADE LITERATURE

Hay Foundry & Iron Works, Newark, N. J., has issued an elaborate illustrated brochure commemorating the completion of 100 years in business under the management of the same family. This contains illustrations of many modern buildings for which the company has erected the structural steel frames.

General catalog 20, issued by the Victor L. Phillips Co., Kansas City, Mo., is an exceptionally elaborate and attractive 608-page illustrated book describing in detail all items of the large line of construction equipment handled by this distributor. Besides this descriptive material, the back of the catalog contains a number of pages of useful information, including tabular freight rates from the various warehouses of the company to points in its territory.

"Modern Methods of Ash Handling" is the title of a new 24-page catalog illustrating several methods of handling ashes by pipe line, as well as by other types of conveyors, issued by the Brady Conveyors Corp., 20 West Jackson Boulevard, Chicago, Ill.

An article describing the new water-supply system for Fort Lauderdale, Fla., by F. J. Keis, which appeared in Engineering News-Record for February 20, 1930, has been reprinted by the De Laval Steam Turbine Co., Trenton, N. J., for general distribution.

Tinius Olsen Testing Machine Co., 500 North 12th St., Philadelphia, Pa., has issued a folder describing the Olsen Testing Machines for road materials.

ELECTRICAL APPLIANCE SALE
8.8% AHEAD OF 1929

Despite general business depression, sales of electrical appliances for the first half of the year were greater than in the same period last year.

Indicative of the gains made in the entire appliance field are the reports of the principal electric light and power companies to Electrical Merchandising on their appliance sales for the first six months. These reveal a total sales increase of 8.8% over the same period in 1929. The utility companies do about one-third of the total appliance business.

Somewhat of a surprise, also, in view of general conditions, is the fact that chief gains were made by the more expensive appliances; the smaller ones did not hold up so well. Refrigerators showed a 6% increase; ranges, 45%. Growing popularity of the ironer is indicated by a 34% increase; washers, 10%. Vacuum cleaners alone, of the major appliances, showed a falling off—4%.

OPENS S. F. BRANCH

Bates Valve Bag Corporation, with headquarters in New York City, has recently established branch sales offices in San Francisco at 1014 Thelan Building. The company manufactures "Bates" multi-wall paper bags for plaster and cement. The company has just completed the construction of a branch factory in Seattle. G. A. Culom is manager of the San Francisco offices.

Building Officials To Meet At Long Beach

Focusing the attention of city building officials and every branch of the construction industry on better building and building legislation, the 9th annual meeting of the Pacific Coast Building Officials' Conference will be held at Long Beach September 29 to October 4, inclusive.

Program and entertainment features announced by H. E. Plummer, president of the Conference and chief inspector of buildings, Portland, Ore., point to a gathering of exceptional interest and practicality. Convention headquarters will be at the Virginia Hotel. Following the usual custom, all general sessions and committee meetings are open to anyone desiring to attend.

Activities of the Pacific Coast Building Officials' Conference are centered around the maintenance and promotion of the Uniform Building Code prepared and published by the Conference. This code has been adopted and is in satisfactory operation in 81 municipalities, 72 of which are on the Pacific Coast. Interest in the code is increasingly widespread because of the number of cities using it and the additional number considering its use.

Open discussions of the code will occupy more than two days' time at the convention. This will include three informal breakfast discussions on enforcement, an afternoon presentation of six papers covering the entire code with a discussion following each, and parts of three days devoted to open discussions of proposed code additions and changes under the guidance of six code changes committees headed by building inspector chairmen.

A number of well qualified men have consented to present papers, among which are mentioned: A. C. Horner of San Francisco, "The establishment of limits for fire zones;" Henry D. Dewell of San Francisco, "Factors of safety in wood construction;" Leonard S. Smith, formerly of the University of Wisconsin, "Some neglected phases of our housing problem;" James F. Collins, director state department of professional and vocational standards, "Cooperation between building departments and the state in the licensing of contractors;" H. G. Ufer of Los Angeles, "Methods used by Underwriters Laboratories, Inc., in making standard fire tests;" R. L. Dunlap, fire prevention engineer Los Angeles county, "Fire prevention as related to theater construction;" Norman W. Kelch of Los Angeles, "Reinforced brick masonry;" and Jas. M. Evans of Los Angeles, "General problems encountered by an electrical inspector." Arrangements are being made for other papers of similar interest.

Entertainment has been planned for the wives of delegates. Group entertainment for all in attendance will include a spectacular night trip through a steel mill and an all-day excursion to the world-renowned Catalina Island.

Recognizing the practical value of the sessions, an increasing number of men is attracted each year to the conventions of the Pacific Coast Building Officials' Conference. Judging from the way reservations are being received this year, Conference Secretary David H. Merrill, whose headquarters are at Long Beach, estimates that this year's attendance will far exceed that of any previous year.

Ransome Concrete Machinery Co., Dunnellen, N. J., has issued Bulletin No. 125, describing the new Ransome 27-E Master Paver. This paver is the only one on the market using the double-skip pivot.

PACIFIC COAST BUILDING PERMITS SLUMP IN AUGUST

Following is a report of August, 1936, building permit activities in the Pacific Coast area as reported by building department executives in the cities listed, together with the valuation of permits granted in August, 1929, for comparative purposes:

CALIFORNIA

City	No.	August, 1936 Cost	August, 1929
Alameda	100	\$ 102,515	\$ 187,460
Alhambra	57	163,325	255,200
Bakersfield	50	63,695	82,360
Berkeley	160	161,847	235,039
Beverly Hills	90	536,150	742,235
Burbank	27	67,175	210,280
Burlingame	16	74,010	161,380
Chula Vista	18	20,665	38,565
Colton	9	6,100	19,400
Compton	23	26,865	93,095
Coronado	25	29,715	45,665
Emeryville	4	1,270	49,025
Eureka	19	36,200	31,284
Fresno	129	96,855	110,912
Fullerton	17	11,807	21,739
Glendale	105	375,140	307,880
Hayward	13	35,508	18,844
Huntington Park	40	79,475	139,500
Inglewood	32	61,175	25,725
Long Beach	449	1,201,535	840,910
Los Angeles	2,608	6,494,577	5,511,772
Los Gatos	17	11,830	10,300
Lynwood	17	46,800	96,327
Modesto	23	56,990	40,207
Monrovia	19	18,611	17,390
Montebello	8	5,435	35,350
National City	12	4,135	16,485
Oakland	380	763,925	915,635
Oceanside	15	4,475	5,500
Ontario	11	20,450	20,920
Orange	8	7,000	18,250
Palo Alto	50	89,155	184,400
Palos Verdes Estates	1	16,000	69,565
Pasadena	325	431,911	713,251
Petaluma	10	64,675	26,480
Piedmont	12	19,452	252,577
Pomona	65	81,374	65,985
Redlands	22	44,680	43,885
Redwood City	30	87,850	58,090
Richmond	16	74,010	66,955
Sacramento	154	219,029	347,456
San Bernardino	54	670,170	190,744
San Diego	365	511,376	1,860,062
San Francisco	569	1,242,128	3,095,638
San Gabriel	18	55,271	24,080
San Jose	51	389,055	298,740
San Leandro	15	72,380	128,380
San Marino	20	232,415	150,457
San Mateo	34	165,325	278,400
San Rafael	14	35,525	35,600
Santa Ana	79	351,936	162,235
Santa Barbara	107	479,775	384,040
Santa Cruz	6	125,619	27,590
Santa Monica	83	177,523	131,525
Santa Rosa	17	24,159	28,167
South Gate	39	55,050	116,785
South Pasadena	16	16,435	51,176
Stockton	36	106,005	129,110
Torrance	12	12,695	51,650
Vernon	10	26,487	236,125
Ventura	12	39,200	62,850
Watsonville	17	50,000	62,300
Willow Glen	16	66,500	
Total	6,771	\$16,519,444	\$19,639,442

ARIZONA

Phoenix	65	\$ 130,718	\$ 412,232
Tucson	90	220,593	766,165
Total	155	\$ 351,311	\$ 1,178,397

IDAHO

Boise	88	\$ 39,878	\$ 38,715
Lewiston	12	17,650	48,384
Nampa	21	112,008	14,190
Total	121	\$ 169,536	\$ 101,289

NEVADA

Reno	50	\$ 248,575	\$ 313,125
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OREGON

Albany	6	\$ 62,860	\$ 10,490
Astoria	29	7,151	9,793
Corvallis	19	7,700	7,650
Eugene	79	65,484	50,532
Marshfield	10	20,020	50,400
Portland	595	1,039,010	865,050
Salem	50	16,907	530,336
Total	788	\$ 1,219,132	\$ 1,524,251

UTAH			
Logan	8	\$ 23,800	\$ 20,500
Ogden	19	39,700	56,950
Salt Lake City	68	251,770	555,970
Total	95	\$ 315,270	\$ 633,420
WASHINGTON			
Aberdeen	41	\$ 6,555	\$ 46,480
Bellingham	60	43,310	67,357
Everett	75	33,415	69,775
Hoquiam	36	4,980	10,670
Longview	13	8,130	10,986
Seattle	521	1,567,225	1,922,295
Spokane	208	287,261	818,358
Tacoma	268	352,605	387,750
Vancouver	31	10,240	19,295
Walla Walla	21	29,530	67,925
Wenatchee	23	26,135	59,465
Yakima	55	132,350	3,504,836
Total	1,352	\$ 2,501,736	\$ 6,894,760
Grand Total	9,332	\$21,325,004	

WASTE IN PRELIMINARY ESTIMATES WOULD BE AVOIDED WITH USE OF QUANTITY SURVEY

(By Louis LaBeaume, Director American Institute of Architects, at Fifth Annual Convention of American Institute of Quantity Surveyors in St. Louis, Mo., April 15, 1930)

The architect, of course, regards himself in moments of prosperity and active occupation as a very important member of the community and a very important member of the building industry. He has the idea that his training and his talents equip him to graphically set down on paper the requirements of the client with regard to his home, his factory or office building, or his church. He takes himself, as a rule, very seriously. Sometimes justifiably so, sometimes less justifiably so.

The architect's progress during the last half century in this country has been considerable and his prestige in the public eye has increased not a little.

Architects, Taking an Increased Attitude of Co-operation, With the Contractor and Sub-Trades

As the years have gone by, the architect has come to take his profession more and more seriously, and to take an increasing attitude of co-operation toward the contractor and the sub-contractor and the various persons whose efforts go to make up the finished building.

The architect may conceive a building on paper, and plan it wisely; he may design it beautifully, but it is only the program of a building until it is put into action by the forces of the building trades. It is true that it can give satisfaction as a prepared design, just as a play may give satisfaction by being read in the study, but the play only takes on its real value when its different characters are interpreted intelligently by the actors and properly directed by the stage manager. As the whole scheme of the play must be intelligently, sympathetically carried out by the persons on the stage so also all of these forces in the building industry are co-operative with the architect; and the wise architect realizes that it is only by the co-operation of these forces that a just and satisfactory result can be obtained.

The architect has come into a professional position only probably within the last two hundred years. But the great buildings of the past were designed by architects as far back as the Pantheon. Architects had charge of the work, but their relations were somewhat different from the professional attitude of the architect today. They were master masons, they were builders themselves in those days, and in many instances designed the building on the site, surrounding themselves with a corps of workmen,

craftsmen, carvers, glass makers, and metal workers, and they all worked together. Often some of the beautiful detail of the buildings in the past was in a measure improvised on the site by the carver, the sculptor, or the artisan in charge of the special bit of work. Today, much of that detail is designed on paper, although the architect still realizes that he must have the sympathetic cooperation of expert workmen in carrying out the work. He writes a specification, and definitely outlines what the work should be, what its character and qualities should be. But he may be ever so definite in that specification and yet be very much disappointed in the result.

The American Institute of Architects, of which I have the honor to be one of the directors, is seeking closer and closer cooperation with the contracting forces. It respects and honors all of the craft engaged in the building industry and wants to weave them into closer cooperation with the architect.

The New York Chapter and other chapters have been working assiduously to come into closer contact with actual craftsmen on the building, so that the brick mason and the stone mason and the carpenter and the various craftsmen on the building will feel that they are not doing a perfunctory work, not simply laying one brick on top of another, but really breathing some of the spirit of the design into their work so that they may take the same pleasure in the execution of the work which the architect sometimes takes in the designing of it and which clients sometimes take in possession of it (sometimes, not always).

Sinful Waste, Because of Present Day Repetition in Preparing Estimates

The Institute has been interested in the subject which is of such importance to you and all of us, namely, that of quantity survey, realizing that there is a terrible waste in the construction industry. There is a terrible waste in nature for that matter, and I am not so niggardly, not so parsimonious to decry all waste, I like to be wasteful at times myself; nevertheless, there is sinful waste in the repetition of work involved in preparing estimates for buildings.

The building industry in this country is only recently coming to put itself on a sound business basis, and

we all know the scant respect which, let us say, the ignorant public forty years ago had for the term, contractor.

I have as much confidence in my contractor as I have in my own father, trust him with a key to my safe deposit box. I have the box, I say that as a figure of speech. The reason for superintending a building is not to guard against dishonesty. It is simply to guard ourselves against our own mistakes and to interpret, with the contractor, the true intent of the drawings, not to set a guard against fraud or dishonesty on the part of building contractors.

I often hear today the lament that the good old days of honest workmanship have passed. I resent that, too, because I know of ever so many men in all of the building trades who respond to the appeal of good workmanship, and take just as much pride in their work as any of the builders who worked on the cathedrals in the past. It is sometimes true that their opportunity for glorious, artistic expression may not be so great. I know brick masons, I know painters, and cabinet makers who take just as pride in their work and are just as much artists in their way as we artists who pride ourselves on being the great designers of the building. Personally, my contact with those men has added to the joy of my own work and gives me the kind of pleasure I want to get out of my work. So much for the architect's relation to the building industry.

The architect is a business man. Under our form of building, he has to be. He has to be the fiduciary agent of his clients, he has to make the contracts for the actual execution of the work, he has to make a businesslike contract with everything set down in black and white, and though the owner sometimes regards him as his personal cat's paw or agent, I mean the ignorant owner, to get the best and as much as he can, the attitude of the modern architect is that of mediator, who tries to be as just and as fair to the owner, and he is on the job to see that each one gets his just due and that the letter of the bond is fulfilled. For that reason alone, if there are no other reasons for the existence of the architect, I am convinced in my own mind that the threat that is sometimes made against the architectural profession, to-wit: That the engineering fraternity and contracting fraternity would usurp the prerogative of the architect and furnish the owner with specifications and then "poppycock." There are a few every now and then who can be persuaded by a contractor or an engineer into believing that they are going to have their building designed, eliminating the architect and pay just for the building, but that scheme won't work if, granting the engineer and the contractor could draw the architectural profession entirely within their control and employ the architect as draftsman and designer and then go to the people of the United States and say, "We are designers," they would never get anywhere. So much for the architect.

Americans Like to Take a Chance, Don't Want to Know the Truth

You Quantity Surveyors are all engaged in the zealous mission to eliminate the elements of chance from the building industry. We architects share your enthusiasms for that mission, but we beg you to remember that the American people are a set of gamblers. They like to take a chance and they don't want to know the

truth. That is the psychological barrier you will have to leap over before you get that idea firmly planted in their minds.

No Question About the Economical

Value of Quantity Survey

There is no question about the economy wisdom, of a complete quantity survey, but just as some owners now think that they get a set of plans for nothing, some of them, they are evading the cost of the figures of a job, and if I should go to my richest friend in this town and tell him I wanted him to pay for taking off the items on the job, I would have to do a lot of missionary work before penetrating the ivory which encases this money-making apparatus. Of course, owners know in a general way that when nine contractors figure on a job, they are all spending their time and money, which goes into the cost of their overhead, and they know when one of them gets that job he is charging in his overhead the cost that has been accumulated by the nine jobs that he has lost before, but they don't like to face that fact. They want to wait for somebody else to come to that conclusion. That is your difficulty.

England Knows the Economic Value of Quantity Survey

Now, it would be an ideal thing, I think, for the public to recognize the waste that goes on in the building industry and to try to eliminate it by the program that you have in view, and I am sure the American Institute of Architects is committed to that ideal and I think they will cooperate with you in informing the public of the justice of that process. You know what we think of the English temperament, it is conservative. The English are a wise, hard-headed people and they know the economy of the quantity survey. When it comes to business, why business is business with them, and they realize the advantage of the elimination of the elements of chance in building.

Advices the Elimination of Gamble in Construction Industry

Now then, our contractors, some of them are not as sympathetic in all respects as they might be. Some fellows have a little sporting element in putting in a bid still. I think myself the sooner they get over that particular form of gambling, the better. Keep your gambling outside your business, have business as one thing and pleasure as another thing. We architects are trying to eliminate the element of gambling in our business.

We are in sympathy with this movement, to eliminate waste and chance. Think of the waste in the building operation when you have 23 bidders on a school house.

In all lines of industry wasteful competition is being eliminated as rapidly as possible. All the big men in industry are centering their attention on wasteful competition, and the only point is this: If you can eliminate wasteful competition and give the public the benefit of the saving, then you have accomplished something. The trouble with some of the combinations is they eliminate competition and keep the price up.

Quantity Survey Should Be the Public Interest

Now, we believe and I think you can get the public to believe in the quantity survey when it is shown to be in the public interest. All that the public will want to know is that the electrical contractor, or the plumbing contractor, or the brick or the mill men are not monarchs of all they survey.

Safety of Building

Loan Associations Told By Deputy Commissioner

California building and loan associations hold a unique record for safety, unparalleled by any other type of financial institution, according to a statement by Roy Dorothy, Deputy Building and Loan Commissioner, to Harry S. Wanzler, Sacramento, president, California Building and Loan League. No investment certificate holder in a California association has ever lost a dollar of his money since the reserve requirements for this type of investment were written into the California laws in 1907. The three most important factors of safety contributing to this splendid record are: First, the type of security required by law back of its loans—namely, first liens on real estate; second, the guarantee stock element; and, third, state supervision.

The statutes provide that for every loan made, the association must take a note secured by a first lien on real estate, usually on homes. Our statutes also provide for the issuance of guarantee stock which stock specifically guarantees all other stockholders and creditors against loss, and this guarantee stock must be kept unimpaired.

One of the most important provisions of law for the protection of the public's funds invested in building and loan associations is that requiring a thorough examination of the books, accounts and securities of every association in the state at least once each year. Not only do our examiners ascertain the true financial condition of each association annually, but the Division now employs a staff of appraisers who visit a large number of properties upon which the associations have made loans and determines the actual physical condition and value of the properties held as security. If it appears from these appraisals that any loans are excessive, the association is required to set up reserves to take care of possible losses on such loans.

As a further protection to the investing public, our laws make it a felony for any official or director of a building and loan association to make loans to himself, or to be personally interested in any loans made, even to the extent of accepting a commission thereon. Also all officers, directors and employees of associations having access to cash or securities are required to give good and sufficient bonds to the association, and all such bonds are required to be filed in the office of the Commissioner.

Furthermore, every association is required by law to make an annual written report at the close of its fiscal year, setting forth the true financial condition of the association, which report must be verified by the oath of its president and secretary. In addition to this report, there is a detailed called report required four times each year.

The Division of Building and Loan Supervision, which is by law charged with the duty of enforcing the laws and regulations under which building and loan associations operate, now employs thirty persons especially trained in this work, including expert examiners and appraisers. The expenses of the Division are met from funds contributed by the associations themselves, through annual assessments based on assets and levied by the State Building and Loan Commissioner under powers conferred by law.

CURTAINS PRODUCTION

Roy Barto, president of the Cadwallader-Gibson Co., Los Angeles, reports the production of Philippine mahogany

at the company's mills in the Philippines has been curtailed more than 60 per cent. Other large mills in the islands are making similar reductions and the small mills are closed, due to lack of orders.

LICENSE DEPARTMENT

Because many contractors failed to renew their licenses and the revenues of his office were thereby reduced, the Registrar of Contractors has been compelled to release a number of investigators from the field force, it was stated in the report of W. F. Collins, director of the Department of Professional and Vocational Standards, to the Governor's Council at Sacramento, August 28.

LOW PRODUCTION CONTINUES

Continuing the low production schedule maintained since late in May, a group of 350 mills reporting to the West Coast Lumbermen's Association for the week ending August 23 operated at 46.77 per cent of capacity. This compares with 47.21 per cent of capacity for the preceding week and an average of 63 per cent from January 1 to June 1.

ENGINEERING SOCIETIES EMPLOYMENT SERVICE

Further information regarding positions listed in this column is obtainable from Newton D. Cook, Room 715, 57 Post Street, San Francisco. (Phone Sutter 1684).

R-3303-S ENGINEER, not over 35, graduate in chemical or mechanical engineering, with 4-7 years' experience as designer or estimator and a record indicating considerable initiative and executive ability. Salary \$200-250 per month. Permanent for right man. Apply by letter. Location, Northern California.

R-3316-S SAFETY INSPECTOR, experienced in accident and compensation insurance work. Permanent. \$150-200 month and travelling expenses. Headquarters, San Francisco.

R-3309-S ENGINEER, mechanical or electrical, not over 30 years, with 3 to 5 years' experience on hydroelectric plant operation for service and testing work. Must have mechanical skill, agreeable personality and be willing to travel. Salary about \$175 month and expenses in the field. Apply by letter. Headquarters, San Francisco.

K-312-W-1562-S SAFETY ENGINEER, technical graduate, mechanical or electrical. Should have had a varied engineering experience in industrial safety problems and understand the rating of risks for casualty insurance. Work will include many public relations. Salary \$8000 year. Apply by letter. Location, New York and some traveling.

R-3287-S PUMP DESIGNER, capable of working out problems without supervision. Previous experience in the design of centrifugal pumps necessary. Temporary. Salary open. Location, San Francisco.

R-3311-S DRAFTSMAN, first class mechanical or electrical with experience on high pressure steam plant layouts or substations. Salary \$200-225 month for experienced men only. Location, San Francisco.

R-3246-S RESEARCH CHEMIST, technical graduate with some experience in paint testing, for similar work in industrial laboratory. Salary \$175-200. Apply by letter with references and photo. Location, San Francisco.

ARCHITECT DENIED LONG TERM CONTRACT BASIS ON INCOME TAX

An architect rendering services under contracts extending over a period of more than one year and receiving part payment in advance is not entitled to report his income on the long-term contract basis, according to a ruling of the general counsel of the Bureau of Internal Revenue. The position of the architect is held to be different from that of a contractor who does not know until the work is actually completed whether he has sustained a loss or made a profit. Following is the text of the ruling, which is styled "General Counsel's Memorandum 7998:

Charest.—An opinion is requested as to whether the taxpayer is entitled to report income from his contracts as an architect, from the years 1925 to 1927, on the completed contract basis under the provisions of article 36 of Regulations 69.

The taxpayer is an architect and his business includes the drawing of plans to be used in the construction of buildings and the furnishing of the necessary supervision to secure the following of such plans by the builder. The taxpayer does no building or constructing himself. Beginning in 1924 he was engaged on a substantial extent as an architect for buildings taking more than one year to construct. Under his contracts drafting and supervisory services were required for periods extending over more than one year.

Payment of Fees

Under the contracts the taxpayer received 60 per cent of the fee upon the completion of the drawings, which included the specifications and general working drawings, exclusive of details. At the time that this 60 per cent of the fee was received less than 60 per cent of the costs allocable to such contracts had been incurred or paid. In a number of instances only 50 per cent of the costs had been paid or incurred when 60 per cent of the fee was received, and in one instance only 40 per cent of the costs had been incurred or paid.

The taxpayer contends that the income thus reflected for the first year is excessive, because there is not charged against the income a fair share of the cost of earning the same, while the income reflected for the subsequent year or years is unduly depressed because more than a fair share of the cost of earning that portion is charged against it. The taxpayer does not contend, however, that the costs incurred during the later period are incapable of fairly accurate ascertainment at the outset.

In other words, the taxpayer does not contend that he was compelled to make more drawings than he contemplated when the contracts were entered into, or that supervision was more extensive and hence more costly than he expected. By choice the taxpayer contracted to be paid in advance when he bargained for and received 60 per cent of the fee at a time when only 50 per cent or less of the cost had been incurred or paid.

Regulations Are Cited

The taxpayer, beginning with the year 1925, has kept his books upon the completed contract basis and has made income tax returns on that basis, claiming the right to do so by virtue of article 36 of Regulations 69. That article provides in part as follows:

Long-term contracts are taxable for the period in which the income is determined, such determination depending upon the nature and terms of the particular contract. As used herein the term "long-term contracts" means building, installation or construction contract covering a period in excess of one year. Persons whose income is derived in whole or part from such contracts may, as to such income, prepare their returns upon the following bases:

(b) Gross income may be reported in the taxable year in which the contract is finally completed and accepted if the taxpayer elects as a consistent practice so to treat such income, provided such method clearly reflects the net income.

Architect or Contractor

The taxpayer contends that his contracts were "long-term contracts" upon the ground that they were construction contracts covering a period in excess of one year. The taxpayer also contends that he drew the plans and supervised the erection of the buildings, and that he was accordingly the contractor of the buildings. It is the view of this office that the taxpayer did not build or construct anything, but simply drew the plans and supervised the work of construction in so far as necessary. The person who had the construction contract was the building contractor.

It is true that the services performed by the taxpayer under the contracts were coincident with the actual work of building, but the work done by the taxpayer could not be called building or construction work. It was rather in the nature of personal services. The case of *In re Harrington* (1 Fed. (2nd), 749), which held that engineering contracts might be reported on the completed contract basis, was decided under article 36 of Regulation 45, in which the only requirement was that the person so reporting be engaged in "contracting operations." It was conceded by the court, however, that under subsequent regulations in which a more restricted definition of long-term contracts is given, the engineering firm could not have reported its income on the completed contract basis.

One of the reasons why permission to report on a completed contract basis is given in the case of building, installation and construction contracts is the fact that there are changes in the price of articles to be used, losses and increased costs due to strikes, weather, etc., penalties for delay, and unexpected difficulties in laying foundations which make it impossible for any construction contractor, no matter how carefully he may estimate, to tell with any certainty whether he has derived a gain or sustained a loss until a particular contract is completed. This situation, however, does not obtain in the case of architects. None of the foregoing vicissitudes affect them.

If after plans have been drawn the owner desires to have them materially changed, thus causing the architect additional work and expense, the custom is to charge an additional fee to cover the same, and the additional fee is generally provided for by contract. The fact that there may be some disproportion in the net income reported each year, due among other things to the fact that the architect is paid partly in advance of services

rendered, does not justify a resort to the completed contract method of reporting income. As the contracts in the instant case only involved the drawing of plans and the supervision of construction to accord therewith, it cannot be held that the taxpayer's income was derived from building, installation or construction contracts within the meaning of the regulations.

It is, therefore, the opinion of this office that the taxpayer is not entitled to report his income as an architect on the completed contract basis.

BUSINESS REVIVAL "JUST AROUND CORNER"

A Consolidated Press dispatch from New York, dated Sept. 4, says:

Signs of a return to an active market were found on every hand in Wall Street today. One firm reports that in the past two weeks business has increased 10 per cent, most of which was accounted for by inactive accounts that have come to life again. Most of the new business, the firm reports, is on the buying side of the market, with a considerable slice of an investment nature.

Another house reported that of its new business over 90 per cent is in industrial stocks and over half in shares selling below \$50.

Two large houses, which were complaining a fortnight ago that they were showing a deficit, now declare they will show a profit on August owing to business done in the last week.

This pickup in activity is reflected in an increased number of want ads appealing for statisticians, customers' men, telephone clerks, page boys and other brokers and personnel.

One of New York's largest department stores announced today that 1,000 men and women will be added to its staff in the next month.

SAN JOSE FIRMS SHARE IN SCHOOL EXPENDITURES

The expenditure of \$1,240,000 voted for school expansion in San Jose this year allowed only \$123,553 to be spent in contracts to companies outside of Santa Clara county.

A large majority of the bond money, or 65 per cent, was spent directly in San Jose. Of nearly a million and a quarter dollars allowed for school housing, \$585,874 in contracts went to local contractors. Another 25 per cent, or \$239,067, was awarded in contracts to county contractors not residing in San Jose.

Walter L. Bachrodt, superintendent of schools, stated that these figures show local contractors to be more than equal to outside companies, many of which are larger organizations. He stated that due to comparatively low building cost, the school department was able to realize an extra \$100,000 worth of work on the schools that would not have been available five years ago.

BAKERSFIELD ARCHITECT IS INTERVIEWED IN N. Y.

Clarence Cullmore, Bakersfield architect, who, with his wife, recently returned from a three-month tour of Europe, had the pleasure of giving Paris his idea of California and American architecture. In the Paris edition of the New York Herald, issue of August 17, Mr. Cullmore was given six inches of space to express his ideas of architecture in the United States and particularly the Spanish type, so prominent in California. He did justice to both.

Building News Section

APARTMENTS

Sub-Bids Being Taken.

APARTMENTS Cost, \$150,000
SAN FRANCISCO. Pacific Ave. and Baker St.
 Three-story steel frame and concrete semi-fireproof apartments (six 6-room apts.)
 Owner and Builder—W. R. Voorhies, Inc., 369 Pine St.
 Plans by A. D. Janssen, 369 Pine St.

Sub Bids Being Taken.

APARTMENTS Cost, \$60,000
SAN FRANCISCO. NE North Point and Broderick Sts.
 Three-story frame and stucco apts. with brick basement (15 3-room apts.)
 Owner and Builders—Robinson & Johnston, 871 31st Avenue.
 Plans by Lawrence Ebbets, 320 Fulton Street.

Will have steam heating system, Kewanee boilers, composition 10-year roof and terra cotta tile, kelinator refrigeration, canvass walls and ceilings.

Plans Being Prepared.

APARTMENTS Cost, \$60,000
SAN FRANCISCO. Buchanan St. near Washington St.
 Three-story frame and stucco apts. with brick basement (12 3-room apts.)
 Owner and Builder—T. I. Strand, 822 26th Ave.
 Plans by Lawrence Ebbets, 320 Fulton Street.

Will be modernistic type of architecture.

Sub Bids Being Taken.

APARTMENTS Cost, \$40,000
SAN FRANCISCO. S Jefferson St. W Broderick.
 Three-story and basement frame and stucco apartments (6 5-rm. apts.)
 Owner and Builder—Ben Liebman, 1555 Francisco St.
 Plans by Lawrence Ebbets, 320 Fulton Street.

Automatic oil burning system, separate showers, brick basement, steel sash, etc.

Plans Completed.

APARTMENTS Cost, \$20,000
MARTINEZ, Contra Costa Co., Cal.
 One-story and basement frame and stucco apartments.
 Owner—Jas. F. Croll, Martinez.
 Architect—F. H. Slocombe, 85 Cambridge Way, Piedmont.
 Project will not go ahead for about two months.

Plans Being Figured.

ALTERATIONS Cost,
OAKLAND. Alameda Co., Cal. Madison and Lake Sts.
 Alterations and additions to one-story frame apts. (add porch, etc.)
 Owner—San Jose Bldg. & Loan Assn., 16th and San Pablo, Oakland.
 Architect—W. E. Schirmer, 700 21st St., Oakland.

Preparing Plans.

APARTMENTS Cost, \$500,000
LOS ANGELES. Calif. Sunset Blvd. near Kings Road.
 Sixteen-story reinforced concrete apts. (168 rooms).
 Owner—Wm. I. Moffett.
 Architect—L. A. Bryant, 6513 Hollywood Blvd., Los Angeles.

Plans Being Completed.

APARTMENTS Cost, \$150,000
OAKLAND. Alameda Co., Cal. Crescent Ave. near Santa Clara.
 Three-story frame and stucco apartments with Class C concrete garage.
 Owner and Builder—R. E. Mayer, 1129 McKinley St., Oakland.
 Architect—Douglas Stone, Great Western Power Bldg., Oakland.
 Bids will be taken in two weeks.

Contract Awarded.

APARTMENTS Cost, \$15,000
SAN FRANCISCO. E Mission Street N Excelsior St.
 Three-story and basement frame and stucco apartments (4 apts.)
 Owner—Steve Torrance.
 Plans by L. O. Ebbets, 320 Fulton St.
 Contractor—M. P. Jorgensen, 2225 No. Point St.

Segregated Bids To Be Taken in One Week.

APARTMENTS Cost, \$50,000
OAKLAND. Alameda Co., Cal. 35th St. near Telegraph Ave.
 Three-story frame and stucco apts. with concrete basement.
 Owner—Nelson Bros., 13th and E 36th Sts., Oakland.
 Architect—Chester Treichel, American Bank Bldg., Oakland.

Preparing Plans.

APARTMENTS Cost, \$275,000
LOS ANGELES. Cal. 1861 Cherokee Avenue.
 Ten-story and basement class A reinforced concrete apts. (60 rooms).
 Owner—Kass & Ruben, 650 S Grand Avenue, Los Angeles.
 Architect—Marcus P. Miller, Board of Trade Bldg., Los Angeles.

Plans Being Figured.

APARTMENTS Cost, 16,000
SAN FRANCISCO. Cabrillo Street E Thirty-second Avenue.
 Two-story frame and stucco apartments (four 3-room apts.)
 Owner—Mrs. Bluet.
 Architect—Richard Irvine, Call Bldg., San Francisco.
Mill Work and Lumber—Greater City Lumber Co., 3123 Mission Street.
 Financing arrangements are being handled by W. B. Jefferson (Greater City Lumber Co.), 3125 Mission St.

A Demonstration of the

SKILSAW PORTABLE ELECTRIC HAND SAW

Will solve your cutting problems.
 (Four Models, 1/2 to 1 h. p.)

ELECTRIC HAMMERS ELECTRIC DRILLS GRINDERS, BUFFERS

PETER H. NELSON

Labor Saving Portable Electric Tools.

1248 Mission St. Underhill
 San Francisco 7662

Contracts Awarded

REMODELING Cost, \$25,000
SAN FRANCISCO. 709 Gary Street.
 Remodel five-story class B apartments
 Owner—Louis Friedman Estate.
 Architect—S. Heiman, 605 Market St.
 Contractor—Louis J. Cohn, 1 DeHaro Street.

Plumbing, Heating & Ventilating—F. J. Klimm, 456 Ellis St.

Refrigeration—Norge Refrigerator Co., 111 O'Farrell St.

Elevators—Spencer Elevator Co., 166 Seventh St.

Bids are now being taken by architect for painting.

Grading—Ariss-Knapp Co., Inc., 961 41st St., Oakland.

Forms—N. M. Schuster, 2424 Curtis St., Berkeley.

Rein. Steel—Gunn Carle & Co., 444 Market St., San Francisco.

Structural Steel—Herrick Iron Works, 18th and Campbell, Oakland.

Lumber—Tilden Lumber Co., foot of University Ave., Berkeley.

Concrete—Schnoor Bros., 5905 Claremont Ave., Oakland.

Plumbing—W. H. Picard, 5656 College Ave., Berkeley.

Brick Work—Kroll & Co., 3327 23rd Ave., Oakland.

Sub-Contracts Awarded.

APARTMENTS Cost, \$175,000
OAKLAND. Alameda Co., Cal. No. 400 Perkins Street.
 Six-story and basement steel frame and brick apartments (60 apts.; 2 3 and 4 rooms).
 Owner and Builder—Harry Schuster, 2424 Curtis St., Berkeley.
 Architect—Willis Lowe, 334 Hobart

Bids Opened.

ALTERATIONS Cost, \$—
SAN FRANCISCO. Sutter and Jones Streets.

Alterations to sixth floor of apts.
 Owner—University of California, Berkeley.

Plans by Eng. Dept. of Owner.
 Following is a complete list of the bids received:

D. L. Blenfield, 334 30th Ave., San Francisco, \$28,000; 90 days.

Clinton-Stephens Const. Co., San Francisco, \$28,743; 50 days.

Barrett & Hilp, San Francisco, \$30,804; 65 days.

E. T. Lesure, Oakland, \$31,200.

C. H. McCullough, Oakland, \$31,460.

Vogt & Davidson, San Francisco, \$32,889; 130 days.

Bids held under advisement.

Plastering Contract Awarded.

APARTMENTS Cost, \$37,500
SAN FRANCISCO. Greenwich St. and Franklin St.

Three-story frame and stucco apartments.

Owner—Mrs. Sara Schwalke, 1590 Greenwich St.

Plans by Contractor.

Contractor—Laughlin Const. Co., room 421 Mills Bldg.

Plastering—Jessie Shay, 725 Tehama Street.

As previously reported painting contract awarded to W. G. Thompson, 336 Church St.; stairs to P. O. Lund, 2745 16th St.; wiring to F. F. Goodman, 350 Waller St.; electric refrigeration to Frigidaire Corp., 16th and Harrison Sts.; mill work to Portman Planing Mills, 1618 Mission St.

Preparing Plans.

APARTMENTS Cost, \$200,000
LOS ANGELES, Cal. Beverly Blvd.
and Gramercy Place.
Nine-story and basement reinforced
concrete class A apts. (52x114-ft.)
Owner—Stanley Gawecki.
Architect—Leland A. Bryant, 6513 Hol-
lywood Blvd., Los Angeles.

Contract Awarded.

APARTMENTS Cost, \$200,000
LOS ANGELES, Cal. 1745 N Gramer-
cy Place.
Seven-story class A reinforced con-
crete apts. (87x166-ft.; 220 rooms).
Owner—Edith A. Kassing, 1745 North
Gramercy Place, Los Angeles.
Architect—E. W. Greene, 1612 Cosmo
St., Los Angeles.
Contractor—A. J. Showalter, 1354 N
Harper Ave., Los Angeles.

Plans Being Completed.

APARTMENT-HOTEL Cost, \$150,000
OAKLAND, Alameda Co., Cal. Lake-
side District.
Six-story and basement steel frame
and brick class C apartment-hotel
(100x115 ft.; 162 rooms; 2-3- and
4-room apts.)
Owner—Withheld.
Architect—L. H. Ford, 1435 Harrison
St., Oakland.
Segregated bids will be taken in one
week.

BONDS

MADERA, Madera Co., Calif.—Peti-
tions have been presented to the
county supervisors seeking bond is-
sue for \$100,000 to finance erection
of new county hospital.

SAN DIEGO, Cal.—November 4 bal-
lot will include proposal to vote bonds
of \$1,000,000 for new city and county
building on tidelands. Proposed build-
ing would house all departments of
both the city and county governments.

CHURCHES

Sub Contracts Awarded.

REMODELING Contract Approx., \$25,000
SAN FRANCISCO, California and
Franklin Streets
Remodel Sunday school basement.
Owner—First Church of Christ
Scientist.
Architect—Henry H. Guttererson, 526
Powell St., San Francisco.
Contractor—Moore & Madsen, 557
Market St., San Francisco.
Painting—D. Zellnsky, 165 Grove St.
Cabinet Work—Brass & Kuhn, 1917
Bryant St.
Plastering—Ed. Severenson, 928 Da-
rien Way.

Contract Awarded.

CHURCH Cont. Price \$16,339
DUNSMUIR, Siskiyou Co., Cal.
Two-story and basement concrete
church.
Owner—Roman Catholic Bishop, Sacra-
mento.
Architect—Harry Devine, California
State Life Bldg., Sacramento.
Contractor—R. Pedroncelli, Dunsmuir.

Contract Awarded.

CHURCH Cost, \$150,000
LOS ANGELES, Cal. 34th near Uni-
versity Ave.
Class A reinforced concrete and brick
church (85x130-ft.)
Owner—University Methodist Church.
Architect—C. R. Johnson, University
of Southern California, Los Ange-
les.
Contractor—Wm. Simpson Const. Co.,
Architects' Bldg., Los Angeles.

FACTORIES AND WARE-
HOUSES

Contract Awarded.

PLANT Cost, \$.....
KING CITY, Monterey Co., Cal.
One-story fireproof addition to pro-
duction plant (60x30-ft.; Mfg Milk
Products).
Owner—The Lactol Corp., 203 Cal-
ifornia St., San Francisco.
Plans by Eng. Dept. of Owner.
Contractor—Hugh Thompson, King
City.

Contract Awarded

HANGAR Cont. Price, \$3192
STOCKTON, San Joaquin Co., Calif.,
Municipal Airport.
Frame and galvanized hangar (4 plane
capacity; 50x60-ft.)
Owner—City of Stockton.
Plans by Lyle Payton, city engineer,
City Hall, Stockton.
Contractor—H. E. Vickroy, 1122 N.
Commercial St., Stockton.

Plans Prepared.

BAKERY Cost, \$——
SANTA BARBARA, Cal. E Mason St.
Masonry bakery (116-ft. frontage).
Owner—Geo. K. Freeman.
Architect—Henry W. Howell, 19 East
Canon Perido St., Santa Barbara.
Lessee—Western Bakeries.

Preparing Plans.

FACTORY Cost approx. \$10,000
RICHMOND, Contra Costa Co., Calif.
Extension of 13th St.
One-story brick sheet metal factory.
Owner—Richmond Paint Products Co.,
E. Duffy, president, 1401 Barrett
Ave., Richmond.
Architect—Withheld.
Bids will be taken in about 60 days.

Contract Awarded.

PRECooling PLANT Cost, \$——
RIVERSIDE, Riverside Co., Calif.
Two-story and basement reinforced
concrete pre-cooling plant (90x70
feet).
Owner—Casa Blanca Packing House.
Architect—None.
Contractor—Gay Engineering Corpora-
tion, 2650 Santa Fe Ave., Los An-
geles.

Plans To Be Prepared.

FACTORY Cost, \$——
OAKLAND, Alameda Co., Cal. 81st
Ave. near 14th Street.
One-story reinforced concrete factory.
Owner—Blue Bird Potato Chips, Inc.,
68th Ave. and Beck, Oakland.
Architect—Not Selected.

LOS GATOS, Santa Clara Co.,
Calif.—R. J. Swan of the San Jose
Flying Club plans immediate con-
struction of a factory in Los Gatos
for the building of gliders.

Sub Bids Being Taken.

SHOE & LOFTS Cost, \$30,000
SAN FRANCISCO, N Howard W 7th
Street.
Two-story and mezzanine floor con-
crete shop and loft.
Owner—D Harband.
Engineer—A. C. Griewank, 208 Mis-
sion St.
Contractor—Schultz Const. Co., 46
Kearny St.
Sub bids are wanted on rein. steel,
structural steel and plumbing.

Plans Being Prepared.

ADDITIONS Cost approx. \$150,000
OAKLAND, Alameda Co., Cal.
Brick and concrete additions to ter-
minal depots.
Owner—Drayage Service Corp., 1640
18th St., Oakland.
Plans by Eng. Dept. of Owner.

Plans Being Completed.

CREAMERY Cost, \$——
SAN FRANCISCO, 18th and York Sts.
(137-6x200-ft.)
Two-story and basement class B con-
crete creamery (foundation laid
for two additional stories to be
added later).
Owner—Challenge Creamery and But-
ter Assn., 307 Montgomery St.
Architect—Dodge Riedy, Pacific Bldg.
Bids will be taken in two weeks.

Plans Being Completed.

WAREHOUSE Cost, \$125,000
SAN FRANCISCO, 11th and Bryant
Streets.
Two-story reinforced concrete central
storage warehouse (flat slab con-
struction).
Owner—City and County of San Fran-
cisco.
Architect—Dodge Riedy, Pacific Bldg.
Bids will be taken in about 3 weeks.

Correction In Owner's Address.

MFG. BLDGS. Cost, \$150,000
SALINAS, Monterey Co., Cal.
Group of rubber manufacturing bldgs.
Owner—American Rubber Producers,
Inc., Alisal Road, Salinas.
Plans by Eng. Dept. of Owner.
Contractor—F. Reese, 158 Central
Ave., Salinas.

Main building will be one-story con-
crete, wood frame and corrugated iron
(102x100 feet). Sub-bids will be taken
shortly.

Contract Awarded.

LAUNDRY Cost, \$12,000
SAN FRANCISCO, S Lombard St. E
Steiner St.
Two-story and basement frame laun-
dry (flat above).
Owner—L. Pouey, 747 Call Bldg.
Architect—R. R. Irvine, 747 Call Bldg.
Contractor—Louis Franceschi, 125 Cer-
vantes Street.
Will have concrete floor and founda-
tions.

Bids Being Taken.

INDUSTRIAL BLDG. Cost, \$——
SAN FRANCISCO, SE Russ St. and
Howard St.
Three-story reinforced concrete in-
dustrial building.
Owner—Eng-Skell Co., 208 Mission St.
Engineer—A. C. Griewank, 208 Mis-
sion Street.

Bids are now being received on deep
well, turbine pump and boiler, steel
sash and electric work. Plans may be
figured by contractors at the office of
Mr. Griewank.

As previously reported, pile driving
awarded to M. B. McGowan, Call
Building.

Sub-Contracts Awarded.

REHABILITATION Cost, \$30,000
SAN FRANCISCO, 18th and Shotwell
Streets.
Rehabilitation of warehouse.
Owner—Pacific Gas & Electric Co., 245
Market St.
Plans by Eng. Dept. of Owner.

Contractor—H. H. Larsen, 64 South
Park.

Steel Sash—U. S. Metal Products Co.,
330 10th St.

Miscellaneous Iron—Sullivan Iron Wks

780 Brannan St.
Electrical Work—Minkel & Lucas, 1335
Folsom St.

Bids To Be Taken In One Week.

ROCK WORK Cost, \$60,000
(steel and concrete work)
LIVERMORE, Alameda Co., Cal.
Additional work at rock crusher plant.
Owner—Kaiser Paving Company.
Engineer—L. H. Nishkian, 525 Mar-
ket St., San Francisco
There will be considerable new ma-
chinery installed. Work on a portion
of the plant is now under construction
by Schuler & MacDonald, Oakland.

Plans Being Figured—Bids Close Sept. 17, 2:30 P. M.
EXTENSION Cost, \$20,000.
SAN FRANCISCO. Mills Field Municipal Airport.
 Extension to hangars under Contract No. 19.
 Owner—City and County of San Francisco.
 Engineer—Bureau of Engineering, 3rd floor, City Hall.
 Certified check 10% payable to the clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering on deposit of \$10, returnable.
 Previously reported to be opened Sept. 10.

WOODLAND. Yolo County, Calif.—Warehouse of Sutter Basin Corporation at Seymour, near Woodland, destroyed by fire Sept. 8. The loss is estimated at \$100,000, including stock. The building loss is placed at \$25,000.

FLATS

Contract Awarded.
FLATS Cost, approx. \$15,000 each
SAN FRANCISCO. Lyon Street near Clay St.
 Three two-story frame and stucco flats.
 Owner—Geo. Lieve, 115 Montgomery Street.
 Architect—Hyman and Appleton, 68 Post St.
 Contractor—H. O. and W. R. Lindemann, 617 27th Ave.
 Construction will be started shortly.

Contract Awarded—Sub-Bids Being Taken.
FLATS Cost, \$12,500.
SAN FRANCISCO. Marina Blvd. and Pierce St.
 Three-story frame and stucco flats (two 6-room flats).
 Owner—Edward Baron.
 Architect—Wm. I. Garren, deYoung Building.
 Contractor—C. Dudley DeVelbiss, 369 Pine Street.
 Sub-bids are wanted on concrete work, brick work, lumber, plumbing, sheet metal, plastering, electric work, mill work, roofing, tile and hardwood floors.

GARAGES AND SERVICE STATIONS

EL CERRITO, Contra Costa Co., Cal.—Until September 23, new bids will be received by city trustees to furnish and install a gasoline pump. Previous bids rejected. Specifications on file in office of city clerk.

Plans Being Figured.
GARAGE Cost, \$15,000.
PETALUMA, Sonoma Co., Cal.
 One-story reinforced concrete garage.
 Owner—Westertrop Bros., Petaluma.
 Architect—W. H. Weeks, 111 Sutter St., San Francisco.

Plans Completed.
GARAGE Cost approx. \$30,000.
BERKELEY, Alameda Co., Cal. Oxford St.
 One-story Class C concrete garage and service station.
 Owner—Regents of University of California, Berkeley.
 Architect—W. H. Ratcliff, Jr., Chamber of Commerce Bldg., Berkeley.
 Lessee—Richfield Oil Company.
 Bids will be advertised for shortly.

Contract Awarded—Sub Bids Being Taken.
SERVICE BLDG. Cost, \$50,000.
SAN FRANCISCO. SW 11th and Howard Streets.
 One-story Class C tire service building.

Owner—Goodrich Silvertown, Inc., 1660 Pine Street.
 Plans by Eng. Dept. of Owner.
 Contractor—Lindgren & Swinerton, Inc., 225 Bust Street.

Sub Contracts Awarded.
ALTERATIONS Cost, \$50,000.
SAN FRANCISCO. No. 860 Howard Street.
 Alterations and additions for reinforced concrete auto sales building.

Owner—Pacific Gillespie System, Inc., 852 Howard St., San Francisco.
 Architect—Eng. Dept. of Owner.
 Lessee—Mustar Wait Motors (Ford Agency), 270 7th St.
 Contractor—Villadsen Bros., 417 Market St., San Francisco.

Concrete—Ready Mix Concrete Co., 575 Berry St.
Brick—Wm. Rainey, 323 Clementina St.
Reinforced Steel—Truscon Steel Co., Call Bldg.

As previously reported, excavating by Meyer Rosenberg, 1755 San Bruno Ave., San Francisco; wrecking done by Vassallo & Gammilloni, 1762 Newcomb St., San Francisco.

Contract Awarded.
SERVICE STATION Cost, \$10,000.
OAKLAND, Alameda Co., Calif. SE 50th Ave. and Foothill Blvd.
 One-story brick service station.
 Owner—Union Oil Co. of California, Mills Bldg., San Francisco.
 Architect—None.
 Contractor—William C. Keating, 4209 Mountain Blvd., Oakland.

GOVERNMENT WORK AND SUPPLIES

Plans Being Prepared.
WAREHOUSE, ETC. Cost, \$—
SAN FRANCISCO. Fort McDowell.
 Quartermasters garage, salvage warehouse and shop buildings.
 Owner—U. S. Government.
 Architect—Constructing Quartermaster, Fort Mason.

Plans To Be Prepared.
QUARTERS Cost, \$250,000.
SAN FRANCISCO. Presidio and Letterman General Hospital.
 Forty officers' and non-commissioned officers' quarters (brick or hollow tile construction).
 Owner—U. S. Government.
 Architect—Constructing Quartermaster, Fort Mason.

SAN FRANCISCO—Bids will be asked in about one week by the Constructing Quartermaster, Fort Mason, for repairing dock at Fort Scott. Further mention will be made of this work when the date for opening bids is set.

Preparing Working Drawings.
WARD BLDGS. Cost, \$115,000.
SAN FRANCISCO. Presidio Reservation (Letterman General Hospital)
 Two 2- and 3-story reinforced concrete ward buildings (Wards Nos. 10 and 11).
 Owner—U. S. Government.
 Architect—Constructing Quartermaster, Fort Mason.
 Will contain electric elevator, etc.
 Bids will be called for at the end of the year.

SAN FRANCISCO.—Bids will be asked in about one week by the Constructing Quartermaster, Fort Mason, to furnish and erect a 50,000-gallon steel water tank with a 55-ft. steel tower to replace the present steel water tank at Fort Miley. Further mention will be made of this work when bids are asked.

Bids To Be Taken In One Week.
SOCIAL HALL \$15,000 appropriated
SAN FRANCISCO. Presidio Reservation (Letterman General Hospital, Addition D)
 One-story reinforced concrete social hall (with serving kitchen; 31x30-ft.; tile roof).
 Owner—U. S. Government.
 Architect—Constructing Quartermaster, Fort Mason.

SAN FRANCISCO.—Constructing Quartermaster, Fort Mason, is preparing plans for a reinforced concrete seawall to be constructed at Fort McDowell. Will be 500-ft. long and from 10-ft. to 20-ft. in height.

SAN FRANCISCO.—Constructing Quartermaster, Fort Mason, is completing plans for a drainage system on the Skyline Blvd. at Fort Miley to prevent slides on Government property. It has not been determined whether bids for this work will be asked for or the work undertaken by Government forces.

ALAMEDA. Alameda Co., Cal.—Congress has finally passed the bill appropriating \$743,000 to finance construction of improvements at the Air Base. Construction will involve air depot shops to cost 243,000. Preparation of the landing field, grading, seawall, railroad tracks, roads and drainage will cost \$500,000. Construction will not be undertaken by the Government until the city of Alameda votes to donate the site to the Government for Air Base purposes.

SAN FRANCISCO—All bids received were rejected by Constructing Quartermaster, Fort Mason, to extend street lighting system and install new street lighting standards at Letterman General Hospital. Following bids were received:

(1) lights; (2) installing; (3) job complete.

P. Grassi & Co., 1945 San Bruno Ave. (1) \$39; (2) \$—; (3) \$—.
 City Improvement Co. (1) \$1638; (2) \$3011; (3) \$4649.

Butte Elec. Mfg. Co. (1) \$1810 (type of lights); \$2238 (dif. type of lights); (2) \$2290; (3) \$4300 (complete with one type of lights); (4) \$4100 (complete with other type of lights).

Westinghouse Elec. & Mfg. Co. (1) \$1833; (2) \$—; (3) \$—.
 A. C. Rice, (1) \$1950; (2) \$2350; (3) \$4300.

Globe Electric Co. (1) \$2157; (2) \$2330; (3) \$4265.
 Brayer Electric Co. (1) \$2219; (2) \$2946; (3) \$5165.

H. C. Reid & Co. (1) \$2253; (2) \$2126; (3) \$4300.
 Severin Electric Co. (1) \$2900; (2) \$—; (3) \$—.

Whether new bids will be called for or not is indefinite at this time.

ANACAPA ISLAND, Cal.—Until September 18, 2:00 P. M. bids will be received by Superintendent of Light-houses, 18th District, 425 Customhouse San Francisco, for excavation, construction of upper and lower landings; concrete stairs to and from landings; reinforced concrete retaining wall at upper landing; construction of permanent and temporary roadways; construction of concrete rainshed complete with piping system; installation of service pipe lines; erection of tank foundations and of two 50,000 gallon redwood tanks, and installation of two complete derricks at landing platforms, one 5-ton and one 4-ton, complete. The two 50,000 gallon redwood tanks and the two complete derricks have already been purchased by the Government, are now on hand and will be furnished to successful

holder, f.o.b. Anacapa Island. The work is to be performed at extreme easterly end of Anacapa Island, in the Santa Barbara Channel, off the Coast of Southern California, approximately 12 miles southwest of Hueneme, California. A deposit of \$10 (cash or check) will be required for plans and specifications. Checks to be made payable to the Superintendent of Lighthouses. Deposit will be returned upon surrender of plans and specifications.

SAN RAFAEL, Marin Co., Calif.—	
Congress has appropriated \$1,256,000 to finance construction in connection with the Army Bombing Base to be located in Marin County, near San Rafael. The appropriation will finance the following construction:	
Officers' quarters	\$200,000
Non-Commissioned officers' quarters	78,000
Barracks	240,000
Hangars	160,000
Warehouse	45,000
Headquarters and Operating Buildings	
Radio Station, etc.	25,000
Gas Storage Plant	10,000
Oil Storage and Paint Bldg.	5,000
Additional Hangar	45,000
Shops	100,000
Runways	50,000
Preparation of field, railroad tracks and drainage	258,000

POINT REYES, Cal.—Following bids received by Public Works Officer, Mare Island Navy Yard, for a septic tank, repairs to plank road and a fire protection system at the U. S. Naval Radio Compass Station at Pt. Reyes: Jos. Piasecki, 345 Haight St., San Francisco	
C. L. Joubert	\$1,303
Roy Lind, San Francisco	1,550
McCarthy & Johannis, S. F.	1,712
Carl N. Koller, Crockett	2,280
Clinton Stephenson Const. Co., San Francisco	2,280
Bids held under advisement.	
(2841) 1st report Aug. 22, 1930.	

EUREKA, Humboldt Co., Cal.—Following bids received by Public Works Officer, Mare Island Navy Yard, for fire protection pipe lines and hose couplings and a septic tank at the U. S. Naval Radio Compass Station at Eureka:	
Roy Lind, 54 Stanton St., San Francisco	\$ 970
McCarthy & Johannis, S. F.	997
F. J. Maurer & Sons, Inc., Eureka	1,425
Bids held under advisement.	

POINT MONTARA, Cal.—Following bids received by Public Works Officer, Mare Island Navy Yard, for completion of picket fence, added fire protection, replacement of coal shed and enclose porches at the quarters of the radio personnel at the Naval Radio Compass Station at Point Montara:	
Roy Lind, 54 Stanton St., San Francisco	\$1,097
McCarthy & Johannis, S. F.	1,250
Carl N. Koller, Crockett	1,850
J. S. Hannah, San Francisco	1,850
Bids held under advisement.	

MARYSVILLE, Yuba Co., Cal.—Until September 18, 3 p. m., under Proposal No. 31-70, Specifications No. 2405, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, to place four retards on south bank of the Yuba River above the retards placed in 1928 at the Dantoni Orchard and below the lower end of the gold dredging tailing piles, about 8 miles above the town of Marysville. Specifications obtainable from above.

HAWTHORNE, Nev. (By Special Wire).—P. L. Burr, 320 Market St.,

San Francisco, at \$61,854 submitted low bid to Bureau of Yards and Docks, Sept. 10, under Specification No. 6156, to construct irrigation system at Naval Ammunition Depot, Hawthorne, Nev. A complete tabulation of the bids received will be published in these columns shortly. The work consists of a lawn sprinkler system and water supply mains, and includes earth-work, concrete, steel and iron work, and all piping, valves, fittings, sprinkler heads, and accessories necessary to install the sprinkling system.

SAN DIEGO, Cal.—M. H. Golden, 404 California Bank Bldg., San Diego, submitted low bid to the Bureau of Yards and Docks, Washington, D. C., Sept. 3 at \$101,000 for constructing an extension to a reinforced concrete pier at the Naval Operating Base (Air Station), San Diego. Merritt-Chapman & Scott Corp. was next bidder at \$108,000.

WASHINGTON, D. C.—Bids are being received by Bureau of Supplies & Accounts, Navy Department, Washington, D. C., to furnish and deliver miscellaneous supplies and equipment as noted in the following schedules, further information being available from the Navy Department Officer, 100 Harrison St., San Francisco:

Bids Open Sept. 16

Western yards, portable and radial electric drills and grinders; sch. 4054. Western yards, radio transmitting equipments and spare parts; sch. 4055. Mare Island, 1 typesetting machine; 1 do; sch. 4060.

Mare Island, turbo-generator sets and spare parts; sch. 4061.

Bids Open Sept. 23

Western yards, six 24-in. searchlights and spare parts; sch. 4053. Puget Sound, 4 gasoline storage tanks, 3,900-gal. capacity each; sch.

SAN DIEGO, Cal.—As previously reported, M. H. Golden, California Bank Bldg., San Diego, at \$101,000 submitted low bid to Bureau of Yards and Docks, Navy Department to construct extension to station pier at San Diego, under Specification 6239. Following is a complete list of the bids received:

M. H. Golden, California Bank Building, San Diego, Calif., \$101,000. Merritt-Chapman & Scott Corp., P. O. Box 698, San Pedro, Calif., \$108,000. Wurster Construction Co., Spreckles Theatre Building, San Diego, Calif., \$108,678. Bodenhamer Construction Co., 4886 Mansfield Ave., San Pedro, Calif., \$115,775.

Robert E. McKee, 1128 Central Building, Los Angeles, \$117,000. Charles & F. W. Steffen, Spreckles Theatre Building, San Diego, Calif., \$126,500.

Manly H. Slocum, 2064 Dudley St., Pasadena, Calif., \$134,500. Gist & Bell, Arcadia, Calif., \$144,000. Pan-Pacific Piling and Construction Co., 530 W. 6th St., Los Angeles, Cal., \$155,862.

HALLS AND SOCIETY BUILDINGS

Bids Opened—Held Under Advisement CLUB HOUSE Cost, \$100,000. SANTA CRUZ, Santa Cruz Co., Cal. Pasatiempo Golf Club site. One-story brick club house. Owner—Santa Cruz Development Co. (H. A. Howe in charge), Scotts Valley Highway, Santa Cruz. Architect—Clarence Tantau, Shreve Bldg., San Francisco.

Construction Started. LODGE Cost, \$7500. SACRAMENTO, Sacramento Co., Cal. Camp Sacramento. One-story frame and stucco Lodge building. Owner—City of Sacramento. Architect—Chas. Dean, Realty Bldg., Sacramento. Mr. Carlsen is in charge of construction and can be seen on the premises.

Plans To Be Prepared. AUDITORIUM Cost, \$500,000. RENO, Nevada. Class A auditorium. Owner—Not Given. Architect—Carl Werner and S. Helman, associated, 605 Market St., San Francisco.

The Scottish Rite, Knight Templars and Blue Lodge have consolidated in one unit, and the building committees are now working out plans for the construction of a \$500,000 building. The building previously reported for the Scottish Rite Masonic Temple Association will be abandoned.

Construction to Start Immediately. STORE & LODGE Cont. Price, \$31,779. GILROY, Santa Clara Co., Calif. N. Monterey St.

Two-story concrete store and lodge building (190x55-ft.). Owner—Mainero Bros., Gilroy. Architect—Albert F. Roller, Crocker First National Bank Bldg., San Francisco.

Lessees—Elks Club (2nd story); B. Barshinger (1st story). Contractor—Wm. Radtke, Gilroy.

Construction Under Way. GUN CLUB Cost, \$35,000. LOS BANOS, Merced Co., Cal. One-story frame gun club. Owner—George Bowles, 2313 Washington St., San Francisco. Architect—Edw. T. Foulkes, 357 12th St., Oakland. Contractor—Ralph McLean, Hearst Bldg., San Francisco.

HOSPITALS

Plans Being Completed. ADDITIONS Cost, 160 000. SAN FRANCISCO Potrero Ave. bet. 20th and 23rd Sts. (San Francisco Hospital).

Class A additions on roof of four ward buildings (brick walls, the roof). Owner—City and County of San Francisco.

Architect—Alfred I. Coffey and Martin J. Rist, associated, Phelan Bldg.

Bids will be taken in about three weeks.

Bids Opened. HOME Cost, OAKLAND, Alameda Co., Cal. East 29th St. Two-story Class C concrete home for aged.

Owner—Salem Lutheran Benevolent Assn., Oakland. Architect—Henry H. Gutterman, 526 Powell St., San Francisco. Low Bidder—Fred J. Westlund, 354 Hobart St., Oakland.

Following is a complete list of bids: Fred J. Westlund, Oakland \$ 90,980. Alfred Olsen, Oakland 92,355. A. Cedarborg, Oakland 96,934. Joel Johnson, San Francisco 96,972. S. G. Johnson, Oakland 97,713. Thollander Construction Co., San Francisco 99,566. David Nordstrom, Oakland 106,311. Dyer Const. Co., Oakland 109,000. Emil Person, Oakland 109,452. Sommarstrom Bros., Oakland 199,888. Monson Bros., San Francisco 111,900. Bids held under advisement.

UKIAH, Mendocino Co., Calif.—Local interests are seeking to have the Knapp Foundation (G. O. Knapp, Crescent City) to erect a two-story reinforced concrete hospital in Ukiah similar to those now in course of construction for the Knapp interests at Crescent City, the general contractor for which was awarded the Mercer-Fraser Co. of Eureka. Plans for the Crescent City hospital were prepared by Martin Sheldon, architect, 950 Market St., San Francisco.

STOCKTON, San Joaquin Co., Cal.—Lewis & Green, Bank of Italy Bldg., Stockton, who are figuring the plans on the San Joaquin County Hospital, desire sub-bids on all portions of the work. Bids are to be opened Sept. 29, 11 A. M. Plans were prepared by Architect Fred. H. Meyers, 525 Market St., San Francisco; Davis-Pearce Co., Grant and Weber Sts., Stockton, consulting architects.

Contract Awarded.
NURSES' HOME Cost, \$—
SAN BERNARDINO, Cal. Highland and Waterman Aves.
Three-story reinforced concrete nurses home.
Owner—Sisters of Charity Hospital.
Architect—J. E. Loveless, Robertson Blvd., Beverly Hills.
Contractor—Frank J. Solt, California Hotel, San Bernardino.
Construction will not be started until the three buildings now under construction are completed.

HOTELS

Preparing Plans.
HOTEL Cost, \$3,500,000
LOS ANGELES, Cal. 6201 W Sixth St. (outside city limits).
Forty-story steel frame class A hotel
Owner—A. W. Rode and C. E. Cooper, 5466 Wilshire Blvd., Los Angeles.
Architect—Kenneth Macdonald, 316 Spring Arcade Bldg., Los Angeles.

Construction to Start About Oct. 1st.
HOTEL Cost, \$100,000
SAN RAFAEL, Marin Co., Cal. Laurel Place and Nye St.
Two-story 200-room brick hotel (North African type).
Owner and Builder—C. R. Danziger, 1860 Jackson St., and 222 Kearny St., San Francisco.
Architect—F. H. Shocombe, 58 Cambridge Way, Piedmont.
Financing arrangements are now being made.

Preliminary Plans Being Prepared.
HOTEL Cost, \$76,000
FORTUNA, Humboldt Co., Cal. Hotel (50 rooms).
Owner—Corporation to be organized to finance.
Architect—Newton Ackerman, 101 W 4th St., Eureka.

POWER PLANTS

PASADENA, Cal.—Two bids received by city directors to furnish boilers for municipal power plant were returned to bidders unopened, pending the outcome of a suit by the Consolidated Steel Corp.

FRESNO, Fresno Co., Cal.—Application has been filed by Fresno Irrigation District, J. Allen Hall, secretary, Griffith-McKenzie Bldg., Fresno, Fresno County, for the appropriation of 750 cu. ft. per second from San Joaquin River in Fresno and Madera counties and 200,000 ac. ft. per annum storage for irrigation of 241,300 acres of land, and 3600 cu. ft. per second for power development. Work will involve: power plant, to develop 76,000 h.p.; diversion dam, to

be concrete, 120 ft. high and 1470 ft. long; storage dam, concrete to be 247 ft. high and 3400 ft. long and located at Friant, Geo. L. Swendsen, Griffith-McKenzie Bldg., Fresno, is the chief engineer.

EUREKA, Humboldt Co., Cal. Mercer-Fraser Co., 2nd and Commercial Sts., Eureka, awarded contract by Pacific Gas & Electric Co., 245 Market St., San Francisco, for reconstructing circulating system at their steam plant at Eureka. Work involves reinforced concrete work, miscellaneous iron, reinforced steel, etc.

FRESNO, Fresno Co., Cal.—See "Irrigation Projects," this issue. Power development in connection with Fresno Irrigation district.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

Bids Received.
LIBRARY Cost, \$—
BERKELEY, Alameda Co., Cal. SW Shattuck Ave. and Kittredge St.
Furnish and install furnishing and technical equipment for new Main Public Library.
Owner—City of Berkeley, Florence E. Turner, City Clerk.
Architect—James W. Plachek, Mercantile Trust Bldg., Berkeley.
New bids will probably be called at a later date. Following were the bids received:
R Brandeise & Co., 2141 Bryant St., San Francisco.....\$24,105
M. G. West Co., San Francisco 25,615
C. P. Weber Co., S. F. 30,000
Remington Rand Co., S. F. 30,000
Braas Kuhn Co., S. F. 30,295
Gunn Furniture Co., S. F. 31,332

Plans Being Figured—Bids Close Sept. 25, 8 P. M.
FIREHOUSE Cost, \$8000
YREKA, Siskiyou Co., Cal.
Firehouse.
Owner—City of Yreka, U. F. Brown, city clerk.
Architect—Not Stated.
Segregated bids are wanted for a
(a) general contract;
(b) electric wiring;
(c) plumbing;
(d) hot water heating.
Certified check or bidder's bond 10% required with bid. Plans on file in office of city clerk.

Contract Awarded.
CITY HALL Cost, price, \$12,875
HAYWARD, Alameda Co., Cal.
Completion of three-story reinforced concrete city hall.
Owner—City of Hayward.
Architect—E. P. Whitman, Hayward.
Contractor—F. J. Westlund, 625 40th St., Oakland.

The contract for this structure, embracing the ground floor and two stories, is now being completed under contract with Fred J. Westlund, 625 40th St., Oakland, who was awarded the work on a bid of \$65,840. It will contain offices for the police department, city attorney, city clerk, city engineer, supt. streets and tax collector, water department, health center and recorder or police judge, besides a city jail and a city council meeting room.

SAN JOSE, Santa Clara Co., Cal.—County supervisors have provided funds in the 1930-31 budget to finance installation of an elevator in the county courthouse. Henry A. Pfister is county clerk.

SAN JOSE, Santa Clara Co., Calif.—City of San Jose will receive \$185,000 from the estate of Viola K. Dunne with which to finance erection of a civic auditorium, the purpose specified in the will of the maker.

RESIDENCES

Contract Awarded.
RESIDENCE Cost, \$10,000
BERKELEY, Alameda Co., Cal. 560 Arlington Ave.
One-story frame and stucco residence (7 rooms).
Owner—Angelo Arecco, 2819 Linden St., Oakland.
Architect—S. G. Jackson, 1098 Ranleigh Way, Oakland.
Contractor—Fred Hamilton, 1095 Chatham Road, Berkeley.

Preliminary Plans Being Prepared.
REMODELING Cost, \$50,000
MILL VALLEY, Marin Co., Cal.
Remodel 2-story rustic residence.
Owner—R. J. Wisler, Mill Valley.
Architect—George Cantrell, 45 2nd St., San Francisco.

Preliminary Plans Being Prepared.
RESIDENCE Cost, \$20,000
SAN JOSE, Santa Clara Co., Cal.
Two-story and basement frame and stucco residence (10 rooms).
Owner—Name Withheld.
Architect—Ralph Wyckoff, San Jose
National Bank Bldg., San Jose.

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RESIDENCE Cost, \$6500
SAN ANSELMO, Marin Co., Cal.
One-story and basement frame and
stucco residence.
Owner—Clara Quigley, 18 Broadmoor,
San Anselmo.
Architect—George Cantrell, 45 2nd St.,
San Francisco.
Contractor—W. N. Quigley, 18 Broad-
moore, San Anselmo.

Contract Awarded.
RESIDENCE Cost, \$—
RICHMOND, Contra Costa Co., Calif.
Nevin Avenue.
Two-story frame and stucco residence
Owner—Y. Nelson, Nevin and San
Pablo Aves., Richmond.
Plans by James T. Narbett, 466 31st
St., Richmond.
Contractor—Valene & Lawrence, Ro-
deo.

Plans Being Figured—Bids Close Sept.
15, 3 P. M.
RESIDENCE Cost, \$15,000
SAN JOSE, Santa Clara Co., Cal.
Two-story and basement frame and
stucco residence.
Owner—M. Postleworth, 44 S 15th St.,
San Jose.
Architect—Binder & Curtis, 35 W San
Carlos St., San Jose.

Contract Awarded.
PARISH HOUSE Cost, \$20,198
OAKLAND, Alameda Co., Calif. St.
James Road.
Two-story frame and stucco parish
house.
Owner—Corpus Christie Parish.
Architect—W. E. Schirmer, 700 21st
St., Oakland.
Contractor—Thomas Furlong, 460 Je-
rome, Piedmont.

Owner Taking Sub Bids
RESIDENCE Cost, \$12,000
SAN FRANCISCO, Westgate Drive,
near Darien Way.
Two-story frame and stucco residence
(11 rooms, 3 baths).
Owner and Builder—S. R. Anderson,
1433 7th Ave.
Plans by D. E. Jaekle, Call Bldg.

Contract Awarded.
RESIDENCE Cost, \$50,000
PASADENA, Los Angeles Co., Calif.
100 Los Altos Drive.
Two- and three-story frame and stucco
residence (14 rooms, art stone
entrance, brick loggia, etc.)
Owner—V. R. G. Wilbur, 25 13th Place
Long Beach.
Architect—Wm. R. Erskine and J. L.
Delario, Pasadena.
Contractor—J. C. Clemence, 935 Poppy
St., Pasadena.

Sub-Contracts Awarded.
RESIDENCE Cost, \$60,000
ROSS, Marin Co., Cal.
Two-story brick residence.
Owner—Norman Livermore, 85 2nd St.,
San Francisco.
Architect—Bakewell and Weihe, 251
Kearny St., San Francisco.
Engineer—Atkins and Parker, Hobart
Bldg., San Francisco.
Contractor—Young & Horstmeier, 461
Market St., San Francisco.
Reinforcing Steel—Soule Steel Co., Ri-
alto Bldg., San Francisco.
Mill Work—Lannom Bros. Mfg. Co.,
5th and Magnolia Sts., Oakland.
Electric—North Bay Electric Co., San
Rafael.
Heating—O'Mara & Stewart, 218 Clara
St., San Francisco.
Slate and Composition Roofing—Alta
Roofing Co., 976 Indiana St., San
Francisco.

Contract Awarded.
RESIDENCE Cost, \$7,000
BERKELEY, Alameda Co., Calif. 44
Florida Avenue.

One-story frame and stucco residence
(5 rooms).
Owner—Mr. Weston.
Plans by E. R. Converse, 1088 53rd St.,
Oakland.
Contractor—E. R. Converse, 1088 53rd
St., Oakland.

Contract Awarded.
RESIDENCE Cost, \$10,000
OAKLAND, Alameda Co., Cal. West
Turnley S Sequoyah Ave.
Two-story frame and stucco residence
(7 rooms and garage).
Owner—Ethel L. Church, 2nd Avenue
and E 14th St., Oakland.
Architect—None.
Contractor—Theo. R. Dienger, 1009
Excelsior, Oakland.

Plans Being Figured.
RESIDENCE Cost, \$20,000
SAN JOSE, Santa Clara Co., Cal.
Two-story and basement frame and
stucco residence.
Owner—T. W. MacQuarrie, 309 S 8th
St., San Jose.
Architect—Binder & Curtis, 35 W San
Carlos St., San Jose.

Contract Awarded.
RESIDENCE Cost, \$14,000
HILLSBOROUGH, San Mateo Co.
Two-story and basement frame and
stucco residence (9 rooms).
Owner—Borja Kitchen, Hillsborough
Drive, Hillsborough.
Architect—Gardner Dailey, 425 Mason
St., San Francisco.
Contractor—A. F. & C. W. Mattock,
210 Clara St., San Francisco.

Preliminary Plans Being Prepared.
RESIDENCE Cost, \$—
SAN FRANCISCO, Camino Del Mar
and Lake Sts.
Large residence.
Owner—Chas. J. Carter.
Architect—Ed. Musson Sharpe, 525
Market St.
Agent—Allen & Co., 163 Sutter St.

Owner Taking Sub-Bids.
RESIDENCE Cost, \$4500
OAKLAND, Alameda Co., Cal. Vicin-
ity of Hopkins and Maple Sts.
One-story and basement frame and
stucco residence (5 rooms).
Owner—P. S. Taylor, Hopkins and
Maple Sts., Oakland.
Architect—L. F. Hyde, 372 Hanover
St., Oakland.

To Be Done By Day's Work By Owner
RESIDENCE Cost, \$20,000
OAKLAND, Alameda Co., Calif. NE
Glenbrook Drive and Broadway
Terrace.
Two-story frame and stucco residence
(12 rooms and garage).
Owner and Builder—Sam Stelndel, 38
Northampton Ave., Berkeley.
Architect—None.

Planned.
RESIDENCE Cost, \$300,000
SANTA BARBARA, Cal. El Mirador.
Large residence.
Owner—J. J. Mitchell, Cold Springs &
Mountains Drive, Montecito.
Architect—Edwards & Plunkett, 20 E
Figueroa St., Santa Barbara.

Plans Being Prepared.
RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Cal.
One-story frame and stucco residence.
Owner—Ernest Coxhead.
Architect—Coxhead and Coxhead,
Hearst Bldg., San Francisco.

SCHOOLS

Contract Awarded.
SCHOOL Contract price, \$6899
MURROC, Kern Co., Cal.
One-story frame and stucco school (4
classrooms).
Owner—Murroc School District, John C.
Calvin, clerk.
Architect—Edwin J. Symmes, Haber-
felde Bldg., Bakersfield.
Contractor—F. H. Dequine, Wasco, \$6-
899.

Wood frame, stucco exterior, shingle
roof, O. P. flooring, Smith heater,
plaster interior.
Complete list of bids follows:
F. H. Dequine, Wasco, \$6899
J. C. McGowan, Lancaster, 7450
C. L. Stanley, Bakersfield, 7850
J. C. Burke, Bakersfield, 7943
L. H. Moon, Bakersfield, 7992
Currie & Duglar, Bakersfield, 8247
R. A. Stearns, Delano, 8230
R. E. Lewis, Corcoran, 8555
Adolph Hansen, Bakersfield, 8625
E. A. Root, Los Angeles, 9450

Preliminary Plans Approved.
KINDERGARTEN Cost, \$—
SANTA BARBARA, Calif. Harding
School Site.
Frame and stucco kindergarten with
tile roof.
Owner—Santa Barbara Board of Edu-
cation.
Architect—Soule, Murphy & Hastings,
116 E Sola St., Santa Barbara.

Preliminary Plans Approved.
SCHOOL Cost, \$—
SANTA BARBARA, Calif. McKinley
School Site.
Masonry school (15 classrooms).
Owner—Santa Barbara Board of Edu-
cation.
Architect—Soule, Murphy & Hastings,
116 E Sola St., Santa Barbara.

Plans Being Figured—Bids Close Sept.
23rd.
SCHOOL Cost, \$—
CARMEL, Monterey Co., Cal.
Primary unit for school.
Owner—Sunset School District.
Architect—Swartz & Ryland, Spazier
Bldg., Monterey.

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Contract Awarded.

SCHOOL WORK Cont. price, \$4060
MILPITAS, Santa Clara Co., Cal.
One classroom, store room, cloak room
and renovation and painting of
grammar school.
Owner—Milpitas School District, Jos.
A. Spangler, clerk.
Architect—Not Given.
Contractor—N. S. Nielsen, San Jose.
(2828) 1st report Aug. 21; 2nd, Sept.
5, 1930. 15

Bids Opened.

SCHOOL Cost, \$20,000
WESTLEY, Stanislaus Co., Cal.
One-story class C brick or concrete
elementary school (4 classrooms;
Spanish type).
Owner—Grayson School District.
Architect—Davis-Pearce Co., Grant &
Weber Sts., Stockton.

Following is a complete list of bids:
M. Varozza, Modesto.....\$21,000
P. Uebels, Ripon.....21,450
R. Brown, Westley.....21,448
S. Eyre, Tracy.....21,954
Pennyson.....21,730
C. H. Dodd, Stockton.....22,282
George Roeck, Stockton.....22,196
H. H. Henning, Stockton.....22,230
F. P. Guyon, Stockton.....22,444
A. Cotton.....22,598
Ecker & Stegmiller.....22,632
J. Ward.....23,043
I. Toothacre, Stockton.....23,352
H. E. Vickroy, Stockton.....23,595
The Minton Co., Mt. View.....23,817
A. Jeffreid.....23,963
Neil & Wirtner, Modesto.....23,989
J. Cavanaugh, Stockton.....24,744
Liner & Allen.....27,550

Bids held under advisement.

Contracts Awarded.

CAFETERIA Cost, \$20,000
SAN JOSE, Santa Clara Co., Cal.
One-story reinforced concrete cafeteria
for Woodrow Wilson School.
Owner—San Jose City School District.
Architect—W. H. Weeks, Bank of
Italy Bldg., San Jose.

General Work

Wm. M. Myer, Blaney Ave.,
San Jose.....\$18,950

Heating

C. A. Merritt & Son, 584 So. 1st
St., San Jose.....\$770

Plans Being Completed.

ADDITION Cost approx. \$10,000
MOSS LANDING, Monterey Co., Cal.
One-story frame addition to present
school (2 classrooms).

Owner—Moss Landing School District.
Architect—W. H. Weeks, Hunter-
Dulin Bldg., San Francisco; 1736
Franklin St., Oakland, and Bank
of Italy Bldg., San Jose.

Bids will be called for shortly.

Contemplated.

SCHOOL Cost, \$—
SAN FRANCISCO. 33rd Avenue and
California St.

Private school (height and type of
structure not determined).

Owner—Miss Burke's School.
Architect—Miss Julia Morgan, Mer-
chants' Exchange Bldg.

Work has been started by Fay Imp.
Co. on the playground. Proposed
building is in a very preliminary
stage.

Contract Awarded.

SCHOOL Cont. price, \$25,336
HILLSBOROUGH, San Mateo Co., Cal.
One-story frame and stucco auditor-
ium addition and three covered
passageways connecting buildings
(tile roof).

Owner—Hillsborough School District.
Architect—Willis Polk Co., 277 Pine
St., San Francisco.

Contractor—Jack & Irvine, 74 New
Montgomery St., San Francisco.

Warm air and natural gas furnace
heating is provided; also tile roofing.

Contracts Awarded.

SCHOOL Cost, \$250,000
SAN JOSE, Santa Clara Co., Cal.
Two-story reinforced concrete junior
high school (Herbert Hoover Jr.
High School).

Owner—San Jose City School District.
Architect—W. H. Weeks, Bank of
Italy Bldg., San Jose.

General Work

Neves & Hart, 891 Harrison
St., San Jose.....\$119,700

Heating

A. J. Peters, 455 E. Washing-
ton St., San Jose.....\$19,435

Plumbing

Carl T. Doell, 467 21st St.,
Oakland.....\$17,536

Orn. Iron

San Jose Iron Works, 535 West
San Carlos St., San Jose.....\$2991

Sheet Metal

Superior Met. Products Co., 44th
and Market Sts., Oakland.....\$3635

Painting

C. Lynds, 578 West Santa Clara
St., San Jose.....\$5600

Plastering

Chas. & J. Terranova, 1212
Willard St., San Francisco \$18,966

Glass

W. P. Fuller & Co., 90 S. Second
St., San Jose.....\$1642

Tile

Art Tile & Mantel Co., 221 Oak
St., San Francisco.....\$5950

Roofing

J. Bush, St. Claire Bldg., San
Jose (Tile Roofing).....\$2419

W. J. Porter, San Jose (Com-
position Roofing).....\$3075

Electrical Work

Roy Butcher, 1020 Sherwood St.,
San Jose.....\$8758

The bids on shades were rejected,
and the hardware bid's were held under
advisement.

Bids Opened.

HEATING PLANT Cost \$—
ROSEVILLE, Placer Co., Cal.
Install low-pressure steam heating
plant for high school.

Owner—Roseville Union High School
District, E. C. Bedell, clerk.
Engineer—Albert A. Coddington, 222
Keary St., San Francisco.

Eleven bids have been taken under
advisement. The bids ranged from
\$9650 to \$13,200. Alternate bids were
considered, one calling for a cast iron
boiler instead of a steel boiler, and
another specified terra cotta pipe.

Low bids, however, were submitted
by Rudolph Vlach of El Cerrito, bid-
ding \$9660, with additional charge of
\$593.99 for cast iron boiler and \$200
additional for terra cotta pipe. Lupen
and Hawley, Sacramento, bid
\$9812 with additional \$300 for c.i.
boiler and \$75 deduction on terra
cotta pipe installation.

Bids Opened—Held Under Advisement

SCHOOL WORK Cost, \$—
MILPITAS, Santa Clara Co., Cal.

One classroom, store room, cloak room
and renovation and painting of
grammar school.

Owner—Milpitas School District, Jos.
A. Spangler, clerk.

Architect—Not Given.
Announcement will be made in a few
days.

Contract Awarded.

ADDITION Cost, \$14,000
ARVIN, Kern Co., Cal. Arvin School.
Four-room addition to school.

Owner—Arvin School District.
Architect—Edwin J. Symmes, Haber-
felde Bldg., Bakersfield.

Contractor—W. A. Croft, 1605 Brund-
age Lane, Bakersfield.

Steam Heating—Gundlach Plumbing &
Heating Co., \$1165.

Bids Rejected—Project Temporarily

Abandoned.
SCHOOL IMPS. Cost, \$—
CARMEL, Monterey Co., Cal.

Alterations and additions to manual
arts building and alter contours of
ground, building of walks and steps
adjacent to building and altering
tennis courts and construction of
new tennis court at high school.

Owner—Sunset School District.
Architect—Swartz & Ryland, Spazier
Bldg., Monterey.

Lowest bid was submitted by Hugh
Cormstock, of Carmel.

Sub-Contracts Awarded.

ADDITION Cost, \$120,000
BERKELEY, Alameda Co., Cal.

Classroom additions to Longfellow
School (class C construction, brick
work and steel joists in auditor-
ium).

Owner—Berkeley School District.
Architect—James W. Plachek, Mer-
cantine Bank Bldg., Berkeley.

Contractor—Chas. D. Vezey & Sons,
3220 Sacramento St., Oakland.

Excavation—Ariss-Knapp Co., 961 41st
St., Oakland.

Reinforcing Steel—W. S. Wetenhall
Co., 17th and Wisconsin Sts., San
Francisco.

Cast Stone—J. Wicks, 2737 E 25th St.,
Oakland.

Structural Steel—California Steel Co.,
2nd and Harrison Sts., Oakland.

Lumber—Sunset Lumber Co., 400 High
St., Oakland.

Patent Sash Hdwe.—Universal Win-
dow Co., 1916 Broadway, Oakland.

Plastering—A. D. Aston, 1144 Glen-
dora, Oakland.

Painting—Chas. Mathews, Oakland.

Linoleum—Anderson's Carpet House,
519 13th St., Oakland.

Sheet Metal—Superior Metal Products
Inc., 44th and Market Sts., Oak-
land.

Wiring—Matson-Seabrooke Co., 4115
Broadway, Oakland.

Plans Being Figured—Bids Close Sept.
20th.

SCHOOL Cost, \$100,000
ONTARIO, San Bernardino Co., Calif.

Chaffey High School Site.
Reinforced concrete high school (nine
classrooms, four laboratories).

Owner—Chaffey Union High School
District.

Architect—Allison & Allison, Califor-
nia Reserve Bldg., Los Angeles.

Plans Being Completed.

SCHOOL Cost, \$15,000
JAMESTOWN, Tuolumne Co., Cal.

One-story class C concrete grammar
school (3 classrooms).

Owner—Jamestown Grammar School
District.

Architect—Davis-Pearce Co., Grand &
Weber St., Stockton.

Bids will be taken in about three
weeks.

Bids Opened.

BASKET BALL COURT Cost, \$—
COURTLAND, Sacramento Co., Cal.

Construct basket ball court.

Owner—Bates Joint Union School Dis-
trict, L. C. Peck, clerk.

Architect—W. E. Coffman, 437 Forum
Bldg., Sacramento.

The only bid received was submit-
ted by M. R. Peterson, 4530 Parker
Ave., Sacramento. Bid held under ad-
visement for a few days.

Plans Being Completed.

SCHOOL Cost, \$150,000
ANTIOCH, Contra Costa Co., Cal.

(15-acre site), D Street.
Two-story brick high school.

Owner—Antioch Live Oak High
School District.

Architect—Weber Sts., Stockton.

Bids will be taken in about three
weeks.

Plans Being Figured—Bids Close Sept. 16, 4 P. M.
GYMNASIUM Cost, \$6000
 VALLEJO, Solano Co., Cal.
 Completion of gymnasium at Senior High School in Fleming Ave.
 Owner—Vallejo High School District, Elmer L. Cave, secretary, Board of Education.

Architect—W. A. Jones, room 14 City-County Bldg., Vallejo.

Project involves installation of showers and laboratories, etc., in gymnasium. Certified check 5 per cent, payable to R. F. O'Hara, president of the Board of Education, required with bid. Plans obtainable from architect on deposit of \$5, returnable.

Heating Contract Awarded.
SCHOOL Cost, \$—
 CERRES, Stanislaus Co., Calif. Lau-

reno Street
 One-story brick veneer grammar school with tile roof.

Owner—Ceres Grammar School Dist.
 Architect—W. H. Weeks, 111 Sutter St., San Francisco.

Contractor—Ernest Green, Sycamore St., Modesto.

Heating—Ed Wolfe, Turlock, \$4,475.
 As previously reported electric work awarded to H. A. Trueblood, 1316 9th St., Modesto, \$3,423.

Commissioned To Prepare Plans.
JUNIOR COLLEGE Cost, \$—
 SANTA ROSA, Sonoma Co., Cal.

Class A Junior College group.
 Owner—Santa Rosa Junior College District.

Architect—W. H. Weeks, 111 Sutter St., San Francisco.

The project will be constructed on the unit system, the first unit to cost \$35,000 for which funds are now available. Will be of the English or Gothic type of architecture. Complete project will include the construction of a swimming pool on the 20-acre site available for the college.

BANKS, STORES & OFFICES

Contract Awarded.
STORE Cost, \$5000
 STOCKTON, San Joaquin Co., Calif.

229 W Harding Way.

One-story frame and stucco store.
 Owner—Henry Backes, 316 E Weber St., Stockton.

Architect—None.
 Contractor—John Hackman, Sonora Road and Walker Lane, Stockton.

Construction Started.
STORE Cost, \$.....
 MT. EDEN, Alameda Co., Cal.

Remodel Present Store.
 Architect—Mr. Dennis.

Architect—Vulfe & Higgins, Realty Bldg., San Jose.

Contractor—George J. Asmussen, Grove Valley, Hayward.

To Be Done By Day's Work.
ALTERATIONS Cost, \$12,000
 FRESNO, Fresno Co., Cal. 334 North Broadway.

Alterations and additions to building.
 Owner and Builder—H. W. Huffman, 334 North Broadway, Fresno.

Architect—None.

Preliminary Plans Being Prepared.
STORE Cost, \$—
 OAKLAND, Alameda Co., Cal. 19th and Telegraph Ave.

Department store.
 Owner—H. C. Capwell.

Architect—Albert Evers, 525 Market St., San Francisco.

Present buildings on site will be wrecked.

Plans Being Prepared.
BUILDING Cost, \$200,000
 LONG BEACH, Los Angeles Co., Cal.

Two-story public utilities building.
 Owner—City of Long Beach.

Plans by Long Beach Eng. Dept.

Contract Awarded.
STORES Cost, \$8000
 SAN FRANCISCO. W Stockton St. N Jackson.

Two-story and basement class C stores
 Owner—G. W. Mensor, 601 40th Ave.
 Engineer—Ellison & Russell, 712 Pacific Bldg.

Contractor—De Luca & Son, 666 Mission St.

Contract Awarded.
REPAIRS Cost, \$7000
 WOODLAND, Yolo Co., Cal.

Repair the damage to store.
 Owner—Aogue Department Store.

Architect—None.
 Contractor—C. Dudley De Velbiss, 369 Pine St., San Francisco.

(2711) 1st report Aug. 12, 1936. 16 September 11, 1936

Contract Awarded.
OFFICES & STORES Cost, \$2,000,000
 PORTLAND, Ore. Sixth and Stark Streets.

Twenty-six-story and basement class A steel frame offices and stores (150x100-ft.; stone exterior).

Owner—Commonwealth Realty Co.
 Architect—A. E. Doyle & Associates, Pacific Bldg., Portland.

Contractor—L. H. Hoffman, Public Service Bldg., Portland.

Owner Taking Bids.
STORE Cost, \$—
 RICHMOND, Contra Costa Co., Cal.

San Pablo Ave. and Sacramento.

One- and two-story brick store.
 Owner—Joseph Fara, Richmond.

Plans by James T. Narbett, 466 31st St., Richmond.

Contract Awarded.
REMODELING Cost, \$—
 SANTA CRUZ, Santa Cruz Co., Calif.

Pacific and Locust Sts.
 Remodel bank.

Owner—Farmers and Merchants National Bank, Santa Cruz.

Architect—W. H. Weeks, Hunter-Du-lin Bldg., San Francisco.

Contractor—Brandlein and Co., 2141 Bryant St., San Francisco.

Bids Opened—Held Under Advertisment
STORE Cost, \$15,000
 SAN MATEO, San Mateo Co., Calif.

Third Avenue
 One-story and basement reinforced concrete store (40x35-ft.)

Owner—Martin Stelling, Jr., 155 Montgomery St., San Francisco.

Architect—Bertz, Winter and Maury, 210 Post St., San Francisco.

Additional Contracts Awarded.
BANK Cost, \$250,000
 KLAMATH FALLS, Ore. Sixth and Main Streets.

Two-story and basement class A bank and (18) offices.

Owner—First National Bank.
 Architect—H. H. Winner & Co., 530 Market St., San Francisco.

Cabinet Work—Fink & Schindler Co., 228 13th St., San Francisco.

Marble—Eisele & Dondoro, 2395 Third St., San Francisco.

Bronze and Metal—Peerless Orn. Iron & Bronze Co., 1528 Folsom Street, San Francisco.

As previously reported, granite contract awarded to California Cut Stone & Granite Co.; structural steel to Judson Pacific Co., 609 Mission St., San Francisco; terra cotta to N. Clark & Son, 116 Natoma St., San Francisco.

Plans Being Figured.
STORE Cost, \$—
 SAN FRANCISCO. 2718 Mission St.

Three-story concrete store.
 Owner—S. H. Kress Co., 621 S Broadway, Los Angeles.

Plans by Eng. Dept. of Owner.
 Barrett & Hilp, 918 Harrison St., and J. L. McLaughlin Co., 251 Kearny St., are among the contractors figuring the plans.

Plans Complete.
NEWSPAPER BLDG. Cost, \$170,000
 LOS ANGELES, Cal. 1545 N Wilcox Avenue.

Two-story and basement class A reinforced concrete newspaper building with terra cotta front (115x127-ft.)

Owner—Ira C. Copley and Southern California Newspaper Assn., 510 S Spring St., Los Angeles.

Architect—F. D. Rutherford, Mills Bldg., Santa Monica.

Contract Awarded.
STORE, ETC. Cont. price, \$19,640
 NEWMAN, Stanislaus Co., Cal.

One-story brick and hollow tile store and warehouse (50x125-ft.)

Owner—A. M. Souza.
 Architect—Hardman & Russ, Berkeley Bank Bldg., Berkeley.

Contractor—Roy Kruger, Gustin.

Date Of Opening Bids Postponed Until Sept. 26, 1:30 P. M.

ADDITION Cost, \$—
 MONTEREY, Monterey Co., Cal.

Shop addition, tennis courts, grading girls' playground at high school.

Owner—Monterey High School Dist.
 Architect—Swartz & Ryland, Spazier Bldg., Monterey.

This work will comprise the first unit of improvements to be undertaken under the recently authorized bond issue.

Contract To Be Awarded.
FILM EXCHANGE Cost, \$100,000
 SAN FRANCISCO. Eddy and Hyde Streets.

Two 2-story reinforced concrete Film Exchange buildings.

Owner—Bell Bros., Mills Bldg.
 Architect—O'Brien Bros. and W. D. Peugh, 315 Montgomery St.

Contractor—Cahill Bros., 206 Sansome.

Steam heating system, concrete film vaults, etc. Construction will start in one week.

Preparing Plans.
STORE & OFFICES Cost, \$2,000,000
 LOS ANGELES, Cal. Sixth and Olive Streets.

Thirteen-story and basement class A steel and concrete store and offices (132x150-ft.)

Owner—Western National Company.
 Architect—Eudolph Falkenrath, Jr., Chamber of Commerce Bldg., Los Angeles.

Plans Being Revised.
STORE Cost, \$20,000
 BERKELEY, Alameda Co., Cal. Shattuck Avenue and Allston Way.

Two-story brick and steel store.
 Owner—Name withheld.

Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.

Bids will be called for shortly.

Preliminary Estimates Being Taken.
REMODELING Cost, \$40,000
 SAN FRANCISCO. Stockton St. and Maiden Lane.

Remodel present 3-story building for confectaurant.

Owner—Dr. Felix Lengfeld.
 Plans by L. and E. Emanuel, 2665 Jones St.

Lessee—Poster & Orear.
 Estimates are being received by L. and E. Emanuel.

Contract Awarded.
STORE Cost, \$9000
 HALF MOON BAY, San Mateo Co., Calif.

One-story frame and stucco store with steel trusses.

Owner—Miss Pritchler.
 Architect—Chas. E. J. Rogers, Phelan Bldg., San Francisco.

Contractor—Emanuel Dutro, Half Moon Bay.

Sub-Contracts Awarded.
STORE Cost, \$425,000
SAN JOSE, Santa Clara Co., Cal. 1st and San Carlos Sts.
 Three-story class C reinforced concrete department store.
 Owner—Hale's, 5th and Market Sts., San Francisco.
 Architect—Binder & Curtis, 35 W San Carlos St., San Jose, and Swanson & Lane, Chicago, Ill.
 Contractor—Dinwiddie Const. Co., Crocker Bldg., San Francisco.
Terra Cotta—Gladding-McBean & Co., 660 Market St., San Francisco.
Plastering—Chris Berg, 719 45th Ave., San Francisco.
Elevator—Spencer Elevator Co., 166 7th St., San Francisco.
Sprinkler System—Mechanical Contracting Co., 33 Shipley St., San Francisco.
Steel Pans—Concrete Engineering Co., 1280 Indiana St., San Francisco.
Ornamental Iron—Liberty Orn. Iron Works, 21st and Filbert Sts., Oakland.
Glass—W. P. Fuller & Co., 301 Mission St., San Francisco.
Roofing—Bush Roofing Co., San Jose.
 As previously reported, excavation awarded to Earl Heple, 494 Delmas St. San Jose; rock, sand and gravel to Central Supply Co., San Jose; cement to Borchers Bros., 336 N 1st St., San Jose; plumbing to Wm. F. Serpa, 497 N 13th St., San Jose; electric work to Butcher Elec. Co., 1020 Sherwood St., San Jose; pile driving to Raymond Concrete Pile Co., Hunter-Dulin Bldg., San Francisco.

SANTA ROSA, Sonoma Co., Calif.—E. L. Finley, publisher of the Santa Rosa Republican and Democrat, has purchased the two-story reinforced concrete building in Mendocino Ave., occupied by the Coffee Club and will remodel the structure for a newspaper publishing plant and offices.

THEATRES

Preparing Plans.
THEATRE Cost, \$300,000
PHOENIX, Arizona. First and Washington Sts.
 Two-story class A reinforced concrete theatre (150-200-ft.; to seat 1,700).
 Owner—Fox West Coast Theatres, Inc.
 Architect—S. Charles Lee, Petroleum Securities Bldg., Los Angeles.

Plans Being Prepared.
REMODELING Cost, \$—
FRUITVALE, Alameda Co., Cal. 3720 E 14th Street.
 Remodel theatre (enlarge foyer).
 Owner—Golden State Theatres, Inc.
 Architect—Reid Bros., 105 Montgomery St., San Francisco.
 Bids will be called for at a later date.

Plans Completed.
THEATRE Cost, \$200,000
MERCED, Merced Co., Cal. Seventh and J Sts. (150x150-ft.)
 Two-story class C steel frame and reinforced concrete theatre, stores and office building (theatre to seat 1700).
 Owner—Golden State Theatres, Inc., 988 Market St., San Francisco.
 Architect—Reid Bros., 105 Montgomery St., San Francisco.
 Plans have been turned over to owners who will decide on whether bids will be called for or not. It is planned to start construction about Oct. 1st.

Completing Plans.
THEATRE Cost, \$300,000
WEST LOS ANGELES, Cal. Westwood Village.
 Reinforced concrete class A theatre (to seat 2,000).

Owner—Janss Investment Co.
 Architect—P. P. Lewis, 1063 Westwood Blvd., Los Angeles.
 Lessee—Fox West Coast Theatres Inc.

SAN FRANCISCO.—Following bids received by city purchasing agent, 270 City Hall, to furnish stage fittings and draperies for Presidio Junior High School.

Armstrong Studios, Inc., 255 Golden Gate Ave., \$3,000.
 American Studios, Inc., \$4,250 Alt. 1, \$3,715.
 Bids held under advisement.

WHARVES AND DOCKS

SAN FRANCISCO.—Bids will be asked in about one week by the Constructing Quartermaster, Fort Mason, for repairing dock at Fort Scott. Further mention will be made of this work when the date for opening bids is set.

SAN FRANCISCO.—Until Sept. 24, 2 P. M., bids will be received by State Harbor Commission, Ferry Bldg., to install four cargo aprons for Pier No. 1. Certified check 5% payable to Mark H. Gates, secretary, required with bid. Plans obtainable from Frank G. White chief engineer for the commission, room 18, Ferry Bldg.

MISCELLANEOUS CONSTRUCTION

LOS BANOS, Merced Co., Cal.—Until October 1, 3 P. M., bids will be received by V. G. Bryant, city clerk, for general repairs and reconstruction and on repainting pavilion and toilet building in city park. Bids will be taken separately on repairs and reconstruction and on painting. Certified check 10% payable to city clerk required with bid. Plans obtainable from clerk.

LIVERMORE, Alameda Co., Cal.—M. G. Callaghan, secretary, Rodeo Association, to furnish labor and materials for painting the new grand stands at the Rodeo Grounds. Separate bids will be considered to furnish paint only. Specifications obtainable from secretary.

BERKELEY, Alameda Co., Calif.—Dolan Wrecking Co., 1650 Mission St., San Francisco, awarded contract by Regents of the University of California, for wrecking building on Fulton St. paying the Regents a premium of \$310.

Symon Brothers Wrecking Co., 1435 Market St., San Francisco, awarded contract by Regents of the University of California for wrecking group of 12 buildings on the University campus, paying the Regents a premium of \$900.

Plans Being Figured.
STABLES Cost, \$—
WOODSIDE, San Mateo Co., Cal. Stables.
 Owner—John Rosekrans.
 Architect—Bakewell and Weihe, 251 Kearny St., San Francisco.
 Bids are being taken for a general contract. Following contractors are figuring the plans:
 Bessett Building Co., Burlingame.
 R. W. Follmer, Palo Alto.
 Grant L. Miner, Palo Alto.
 Henry Post, Palo Alto.
 A. F. Mattock, 210 Clara St., San Francisco.
 Chas. Stockholm, Russ Building, San Francisco.
 Alfred S. Gough, 10 Washburn St., San Francisco.

SANTA BARBARA, Cal.—Until September 18, 12 noon, bids will be received by Geo. D. Geib, city clerk, to

furnish twenty Giant, or equal projectors in connection with flood lighting system for Pershing Park. Further information obtainable from clerk.

Segregated Bids Being Taken By the Owner.
ALTERATIONS Cost, \$25,000
SAN LEANDRO, Alameda Co., Calif. 407 Estudillo St.
 Alterations and additions to mortuary building.
 Owner—H. V. Leramur, 407 Estudillo St., San Leandro.
 Architect—Chester Treichel, American Bank Bldg., Oakland.

Contract Awarded.
SIGNAL TOWER Cost, \$4930
MARTINEZ, Contra Costa Co., Calif. Reinforced concrete signal tower.
 Owner—Southern Pacific Railroad Co., 65 Market St., San Francisco.
 Plans by Eng. Dept. of Owner.
 Contractor—Spivock & Spivock, Hobart Bldg., San Francisco.

OAKLAND, Alameda Co., Cal.—Following bids received by John H. Kimball, secretary, East Bay Municipal Utility District, 512 6th St., to furnish approximately 1350 lin. ft. of six foot chain link fence with posts and gates, as provided under Proposal No. 241: (Alta 1), omission of top rail.
 Chain Link Fence Co., \$1753; (1) \$1,537.

Trask & Squier Co., San Francisco, (1) \$1700.
 California Orn. Iron & Fence Co., Oakland, (1) \$1895.
 California Wire Cloth Co., Oakland, (1) \$1,895.
 Standard Fence Co., San Francisco, (1) \$1895.
 Maxwell Hardware Co., Oakland, \$2,083; (1) \$1895.
 Michel & Pfeffer Iron Works, San Francisco, \$2083; (1) \$1895.
 West Coast Wire & Iron Works, San Francisco, \$2083; (1) \$1895.
 Talman Fence Co., San Francisco, \$2083; (1) \$1895.
 Bids held under advisement until Sept. 10.

Contract Awarded.
GOLF COURSE Cost, \$12,500
SAN FRANCISCO, S Market St. bet. 14th St. and Van Ness Ave.
 Miniature golf course.
 Owner—A. Stern, Alexander Bldg.
 Architect—R. De Witt Norris, William Taylor Hotel.
 Contractor—A. J. Stern, Alexander Building.

Reinforcing Steel Contract Awarded.
GRAND STAN, ETC. Cost, \$1,250,000
SAN FRANCISCO, Fifteenth St. and Potrero Avenue.
 Baseball Park, class A steel and concrete grandstand, 1000 ft. long.
 Owner—San Francisco Baseball Club, 15th and Valencia Sts.
 Engineer—H. J. Brunner, Sharon Building.
 Contractor—Lindgren-Swinerton, Inc., 225 Rush St.
Reinforcing Steel—Pacific Coast Steel Corp., 215 Market St.
 As previously reported, lumber contract awarded to Christensen Lumber Co., 5th and Hooper Sts.; lawn sprinkler system to The Turner Co., 329 Tehama St.; excavation to Sibley Grading & Teaming Co., 165 Landers St.

Preparing Plans.
TOWER Cost, \$—
LOS ANGELES, Cal. Western Ave. near Wilshire Blvd. (4-acre site).
 Observation tower (600 ft. in height and 100 ft. square at base; stores, shops and cafe will be provided).
 Owner—Los Angeles Tower Co., Ltd., Pershing Square Bldg., Los Angeles.
 Architect—A. Godfrey Bailey, Hillstreet Bldg., Los Angeles.

MISCELLANEOUS SUPPLIES AND MATERIALS

ANTIOCH, Contra Costa Co., Cal.—Anchor Post Fence Co. of California, 460 5th St., San Francisco, at \$3,197.14 awarded contract by city clerk to furnish all materials and labor for building protection fence 8,763 ft. in length around Antioch Municipal reservoir.

Following is a complete list of bids: Anchor Post Fence Co., S. F. \$3,197 Calif. Orn. Iron Fence Co., S. F. 3,444 Standard Fence Co., S. F. 3,923

EL CERRITO, Contra Costa Co., Cal.—Until September 29, new bids will be received by city council to furnish and deliver oil and gasoline as required by various municipal departments. Previous bids rejected. Specifications on file in office of clerk.

BUSINESS OPPORTUNITIES

Michigan Seamless Tube Co., South Lyon, Michigan, manufacturing cold drawn seamless steel tubing, desires to secure a reliable, well-established sales representation in San Francisco and surrounding territory.

David W. Stallard, Matteson-Forgarty-Jordan Co., 307 North Michigan Ave., Chicago, Ill., desires manufacturer's agent to represent his line of notions in this city and surrounding territory.

OFFICIAL PROPOSALS

September 5, 1930
STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received at the office of the State Highway Engineer, Public Works Building, Sacramento, California, until 2 o'clock P. M. on October 1, 1930, at which time they will be publicly opened and read, for construction in accordance with the specifications therefor, to which special reference is made, of portions of State Highway, as follows:

San Mateo County, between San Mateo and Redwood City (IV-S.M.-88-C), about seven and three-tenths (7.3) miles in length, to be surfaced with bituminous treated crusher run base.

Los Angeles County (VII-L.A.-60-F) a bridge across Alamitos Bay near Long Beach, consisting of fifteen 19-foot timber spans with concrete deck and one 41-foot 4-inch steel beam removable span.

Los Angeles County, at Castaie Creek VII-L.A.-4-A), about one (1.0) mile in length, to be graded and paved with Portland cement concrete.

Proposal forms will be issued only to those Contractors who have furnished a verified statement of experience and financial condition in accordance with the provisions of Chapter 644, Statutes of 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Bids will not be accepted from a Contractor to whom a proposal form has not been issued by the Department of Public Works.

Plans may be seen, and forms of proposal bonds, contract and specifications may be obtained at the said office, and they may be seen at the offices of the District Engineers at Los Angeles and San Francisco, and at the office of the District Engineer of the district in which the work is situated. The District Engineers' offices are located at Eureka, Redding,

Sacramento, San Francisco, San Luis Obispo, Fresno, Los Angeles, San Bernardino and Bishop.

A representative from the district office will be available to accompany prospective bidders for an inspection of the work herein contemplated, and Contractors are urged to investigate the location, character and quantity of work to be done, with a representative of the Division of Highways. It is requested that arrangements for joint field inspection be made as far in advance as possible. Detailed information concerning the proposed work may be obtained from the district office.

No bid will be received unless it is made on a blank form furnished by the State Highway Engineer. The special attention of prospective bidders is called to the "Proposal Requirements and Conditions" annexed to the blank form of proposal, for full directions as to bidding, etc.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

C. H. PURCELL,

State Highway Engineer.

Dated September 3, 1930.

September 8-15-22-29)

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received by the Department of Public Works, Division of Highways, at the office of the District Engineer, 211 State Building, San Francisco, California, until 2:00 o'clock P. M., on Wednesday, September 17, 1930, at which time they will be publicly opened and read, for performing work as follows:

The erection and completion of a maintenance station in Mendocino County, about 3 1/4 miles north of Ukiah which consists of the following group of buildings and appurtenances: Superintendent's cottage, truck shed, of-

fice and store house, loading platform, gasoline and oil house, septic tank, single wood shed, station sign and yard trellis.

The work of this contract comprises excavation, concrete and masonry work, carpentry and mill work; lathing and plastering, sheet metal work, painting, plumbing, heating and electrical installations.

Plans may be seen and forms of proposal, bonds, contract and specifications may be obtained at the above address.

A deposit of twenty-five dollars (\$25.00) will be required on plans and specifications, the deposit to be returned immediately on the return of the plans and specifications in good condition.

No bid will be received unless it is made on a proposal form furnished by the District Engineer. Each bid must be accompanied by cash or a certified or cashier's check made payable to the Director of Public Works, for an amount equal to ten (10) per cent of the amount bid, such guaranty to be forfeited should the bidder to whom the contract is awarded fail to enter into the contract.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

C. H. PURCELL,

State Highway Engineer.

By JOHN H. SKEGGS,

District Engineer, District IV.

Dated: Tuesday Sept. 2, 1930.

URGES MORE ADVERTISING

More advertising to relieve the present depression in business was advocated by Frederick M. Snyder, Redpath Chatauqua lecturer, at a meeting of the Watertown (N.Y.) Kiwanis Club recently.

"Merchants should advertise zealously," said Mr. Snyder. "Advertising is the respiration of business. When respiration becomes heavy you should advertise more. The merchant who does not advertise is like the fellow who winks at a pretty girl in the dark. He knows what he is doing, perhaps, but nobody else does."

Send for a Sample Copy
of the New

DAILY PACIFIC BUILDER

The only daily construction newspaper affording complete coverage of the construction activities in Central and Northern California—featuring work contemplated, bids wanted, bids opened, contracts awarded, sub-bids wanted and sub-contracts let on all types of building construction; bridges, dams and harbor works, irrigation projects; machinery and equipment; water works and supplies; business opportunities; building permits; building contracts, mechanics' liens; acceptances, etc., etc.

Keep informed on construction developments in Central and Northern California, and the major projects in Southern California, the states of Oregon, Washington, Nevada and Arizona.

Engineering News Section

BRIDGES

AUBURN, Placer Co., Calif.—Palm Bridge & Iron Works, Sacramento, at \$6955 awarded contract by county supervisors for cables and steel to be used in the 210-ft. bridge to replace the Colfax-Forest Hill span which recently fell into the river. Structure will be 12-ft. wide with steel and asphalt floor. The county will construct the bridge. Complete list of bids follows:

Palm Bridge & Iron Works, Sacramento, \$6,955.

John A. Roebeling Sons Co. (cables only), San Francisco, \$2,079.

Moore Dry Dock Co. (including erection), Oakland, \$11,400.

Minneapolis Steel Co., Los Angeles, \$7,493.

Pacific Coast Engineering Co., Oakland, \$7,150.

Paynes Bolt Works, San Francisco, \$7,090.

Ralph Hunter (includes erection), Sacramento, \$12,500.

Smith Bros. (erection only), Eureka, \$2,172.

J. De Pierre (erection only), Reno, Nevada, \$1,400.

LOS ANGELES COUNTY, Cal.—Until October 1, 2 p. m., bids will be received by State Highway Commission to construct bridge over Alamitos Bay near Long Beach, consisting of fifteen 19-ft. timber spans with concrete deck and one 41-ft. 4-in. steel beam removable span.

See call for bids under official proposal section in this issue.

REDWOOD CITY, San Mateo Co., Cal.—V. Dizillo, Redwood City, at \$7,502.37 awarded contract to construct nine reinforced concrete culverts on the Woodside Road at the following streets: one at Linden St.; one at Madrone St.; one at Locust St.; one at Cypress St.; one at Murray Court; one at Central Ave.; one at Bonita Ave.; one at Nueva Ave.; one at Orchard Avenue.

EUREKA, Humboldt County, Cal.—Smith Bros., Eureka, at \$4866 awarded contract by county supervisors to construct Moseley Slough Bridge with alternative bid of \$6768.

EUREKA, Humboldt County, Cal.—Henry Padgett, Eureka, at \$9,367 awarded contract by county supervisors to construct Riverside bridge with alternative bid at \$4484 using one span of the present structure.

OAKLAND, Calif.—Until September 23 bids will be received by George Gross, county clerk, to construct two concrete bridges across Crandall Slough, between Alvarado and Centerville; estimated cost \$50,000. Project involves:

- (1) 500 cu. yds. excavating for structure below bridge.
- (2) 2,500 cu. yds. excavating for structure above bridge.
- (3) 1,800 cu. yds. grading.
- (4) 14,000 sq. ft. 3-inch W. B. macadam.
- (5) 1,570 cu. ft. concrete.
- (6) 267,000 lbs. reinforced steel.
- (7) 200 lin. ft. 12-inch corrugated iron pipe.

Plans on file in office of clerk. Geo. A. Posey, county surveyor.

YUBA CITY, Sutter Co., Cal.—Until Sept. 29, 2 P. M., bids will be received by Albert B. Brown, county clerk, to reconstruct portion of the Nicolaus Bridge over the Feather River at Nicolaus; estimated cost, \$45,000. The work will consist of one center pier with two steel spans on each end of pier. Certified check 10% required with bid. Plans obtainable from county clerk on deposit of \$5, returnable.

LOS ANGELES COUNTY, Cal.—J. F. Knapp, Financial Center Bldg., Oakland, at \$113,377 awarded contract by State Highway Commission to construct a reinforced concrete bridge over the San Gabriel river near Seal Beach, consisting of seven 57-ft. spans on concrete piers with pile foundations.

BUTTE COUNTY, Cal.—G. D. Griffith and H. Gunther, Sacramento, at \$6577 awarded contract by State Highway Commission to construct a reinforced concrete bridge over the state highway 1-mile east of Oroville, consisting of one earth-filled arch span, 46 ft. long.

LOS ANGELES COUNTY, Cal.—As previously reported, bids will be received October 1 by State Highway Commission to construct a bridge over Alamitos Bay, near Long Beach, consisting of fifteen 19-ft. timber spans with concrete deck and one 41-ft. 4-in. steel beam removable span. Project involves: 16,000 lin. ft. furnishing creosoted Douglas fir piles; 248 each driving creosoted Douglas fir piles; 135 M. ft. board measure redwood timber, dense, select all-heart structural grade; 93 M. ft. board measure redwood timber, select all-heart structural grade; 105 cu. yds. Class A Portland cement concrete (structure); 410 cu. yds. Class A Portland cement concrete (pavement); 25 cu. yds. Class E Portland cement concrete; 48,000 lbs. reinforcing steel; 92,000 lbs. structural steel; 1 lot misc. items of work.

VISALIA, Tulare Co., Cal.—L. C. Clark, Visalia, at \$2448.97 awarded contract by county supervisors to construct reinforced concrete bridge over Deep Creek, known as bridge No. 89, involving: 1.01 cu. yds. class F concrete; 183.95 cu. yds. class A concrete, including excavation; 250 cu. yds. fill. All material to be furnished by the county f.o.b. Farmersville Siding on the S. P. Ry. Complete list of bids follows:

L. C. Clark, Visalia.....\$2448
Emmett C. Lipscomb, San Diego 2723
Twardle and Lamb, Morro Bay 2778
Fred A. Kame, Visalia.....3043
Adell & Cortwright, Hanford.....3170
R. Hodgson & Sons, Porterville.....3223

VISALIA, Tulare Co., Cal.—L. C. Clark, Visalia, at \$7873.98 awarded contract by county supervisors to construct three reinforced concrete bridges over three branches of "Outside Creek," known as Bridges No. 91A, 91B and 91C, involving: 477.84 cu. yds. class A conc. incl. excavation; 38.12 cu. yds. class F conc.; 54.96 cu. yds. class A conc. in pavement; Lump sum bid on wooden guard rail

incl. material; 1000 cu. yds. earth fill. All material to be used will be furnished by the county f.o.b. Farmersville Siding on the S. P. Ry. Complete list of bids follows:

L. C. Clark, Visalia.....\$ 7,873
Fred A. Kame, Visalia.....8,514
Twardle and Lamb, Morro Bay 8,945
R. Hodgson & Sons, Porterville 9,355
Adell and Cortwright, Hanford 10,147

PORTLAND, Ore.—County Roadmaster George W. Buck is preparing plans to reconstruct Hawthorne Avenue bridge; estimated cost \$155,000. Will involve redecking, rebuilding the approaches and surface with a non-skid black top pavement.

STOCKTON, San Joaquin Co., Cal. See "Sewers and Sewage Disposal Plants," this issue. Three bridges contemplated in connection with Mormon Channel improvements.

DREDGING, HARBOR WORKS & EXCAVATIONS

SAN FRANCISCO.—Constructing Quartermaster, Fort Mason, is preparing plans for a reinforced concrete seawall to be constructed at Fort McDowell. Will be 500-ft. long and from 10-ft. to 20-ft. in height.

SANTA BARBARA, Cal.—Until 2 p. m., Sept. 11, bids will be received by the city council to construct the East Cabrillo Blvd. wall or revetment. The only bid submitted August 21 was rejected August 28. The work involves:

- (1) furnishing and placing 13,500 tons rip-rap on outside of bulkhead;
- (2) furnishing and placing 1500 tons rip-rap on inside of bulkhead;
- (3) furnishing and placing 4000 tons asph. between rip-rap;
- (4) furnishing and placing 850 lin. ft. of creosoted sheet piling or 21,500 sp. ft.

Geo. D. Gelb is the city clerk.

MARYSVILLE, Yuba Co., Cal.—Until September 18, 3 p. m., under Proposal No. 31-70, Specifications No. 2405, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, to place four retards on south bank of the Yuba River above the retards placed in 1928 at the Dantoni Orchard and below the lower end of the gold dredging tailing piles, about 8 miles above the town of Marysville. Specifications obtainable from above.

IRRIGATION PROJECTS

CALIFORNIA.—Following permits were granted during the month of August by the State Department of Public Works, Division of Water Rights, to appropriate water: Permit 3537, Application 6002 (Siskiyou County) Issued to Montague Water Conservation District, Montague, for 50 cubic feet per second from Inconstance Creek, for irrigation purposes on 19,500 acres Est. cost \$290,000.

Per. 3538, App. 6103 (Alameda Co.) J. Cassou, Oakland, for 0.37 cubic foot per second from San Lorenzo Creek,

for irrigation and domestic purposes on 60 acres. Est. cost, \$2000.

Per. 3539, App. 6173 (Alameda Co.) C. A. Crate, Hayward, for 0.15 cubic foot per second from San Lorenzo creek, for irrigation on 12.39 acres. Est. cost \$750.

Per. 3540, App. 6618 (San Bernardino Co.) Los Angeles Council of Camp Fire Girls, Los Angeles, for 0.031 cubic foot per second from Santa Ana River, for recreational purposes. Est. cost \$1000.

Per. 3541, App. 6531 (Humboldt Co.) E. L. Wright, Weitchpec, Calif., for 2 cubic feet per second from Cindar cost \$1500.

Cap Creek, for power purposes. Est.

Per. 3542, App. 6609 (Del Norte Co.) G. C. Walton, Crescent City, for 0.044 cubic foot per second from Rock Creek, for irrigation and domestic purposes on 1½ acres. Est. cost \$200.

Per. 3543, App. 6610 (San Bernardino Co.) A. W. Bercau, Los Angeles, for 0.25 cubic foot per second from 5 unnamed springs, for irrigation and domestic purposes 50 acres. Est. cost \$1500.

Per. 3544, App. 6046 (Tehama Co.) May Bouman, Cottonwood, Calif., for 0.55 cubic foot per second from South Fork of Cottonwood Creek, for irrigation on 45 acres.

Per. 3545, App. 3269 (Inyo Co.) Ballarat Mining Corporation, Ballarat, Calif., for 3.00 cubic feet per second from North Branch Surprise Canyon, for mining purposes. Est. cost \$15,000.

Per. 3546, App. 6523 (Mono Co.) Newton M. Otis, Santa Monica, Calif., for 0.01 cubic foot per second from unnamed stream, for domestic purposes. Est. cost \$75.

Per. 3547, App. 6537 (Mono Co.) U. S. Inyo National Forest, Bishop, for 0.01 cubic foot per second from unnamed creek, for domestic purposes. Est. cost \$152.

Per. 3548, App. 6538 (Mono Co.) U. S. Inyo National Forest, Bishop, for 0.013 cubic foot per second from Mammoth Creek and Owens River, for domestic purposes. Est. cost \$460.

Per. 3549, App. 6727 (Madera Co.) U. S. Yosemite National Park, Yosemite National Park, for 2.00 cubic feet per second from Raynor Creek, for recreational purposes, fire protection and domestic. Est. cost \$30,190.

Per. 3550, App. 6662 (Riverside Co.) Lucile Mann Morris, Keen Camp, Calif., for 0.2 cubic foot per second from a spring for irrigation purposes. Est. cost \$1160.

Per. 3551, App. 6513 (Trinity Co.) Trinity Farm and Cattle Company, Redding, for 15 cubic feet per second from Trinity River for irrigation and domestic purposes on 323 acres. Est. cost \$1500.

Per. 3552, App. 6298 (Orange Co.) Walter C. Aston, Los Angeles, for 1 cubic foot per second from Falls Creek for mining purposes. Est. cost \$2400.

Per. 3553, App. 6303 (Orange Co.) Walter C. Aston, Los Angeles, for 3 cubic feet per second from Trabucco Creek and Holy Jim Creek for mining purposes. Est. cost \$3000.

CALIFORNIA — Following applications were filed during the month of August with the State Department of Public Works, Division of Water Rights, for permits to appropriate water:

Application 6757 (Shasta County) Robert W. Clothier, Cottonwood, Calif., for 3 c.f.s. from Cottonwood Creek, tributary to Sacramento River for irrigation purposes (400 acres). Est. cost \$100.

App. 6758 (Sacramento Co.) A. L. White, Box 300, Rt. 3, Sacramento,

for 1.0 c.f.s., from Sacramento River, tributary to Suisun Bay, for irrigation purposes (80 acres) Est. cost \$2000.

App. 6759 (Mono Co.) Alloy Age Products Co., Ltd., c/o Frank A. Backman, 907 Consolidated Bldg., Los Angeles, for 3.00 c.f.s. from Laurel Lakes, tributary to Laurel Creek; thence Hot Creek, thence Owens River, for power purposes (122.7 h.p.). Est. cost \$1200.

App. 6760 (Colusa Co.) M. E. Hastings, Box 18, Maxwell, Calif., for 1.0 c.f.s., from Stone Corral Creek, tributary to Sacramento River, for irrigation purposes (81 acres).

App. 6761 (El Dorado Co.) John M. Ochsner, 627 22nd Street, Sacramento, for 0.0003 c.f.s., from unnamed spring, tributary to So. Fk. American River, for domestic purposes. Est. cost \$60.

App. 6762 (Mariposa Co.) John J. Fiske, Coulterville, Calif., for 0.011 c.f.s., from unnamed spring, tributary to Dutch Creek watershed, thence Bean Creek, thence Smith Creek, thence N. Fork Merced River, for irrigation and domestic purposes (4 acres). Est. cost \$100.

App. 6763 (Trinity Co.) C. M. Salver, c/o C. A. Paulsen, Weaver, Calif., for 10 c.f.s., from Clark Creek, tributary to Eltapom Creek, thence S. Fork Trinity River, for mining and domestic purposes. Est. cost \$15,000.

App. 6764 (Calaveras Co.) State of California, Dept. of Public Works, Div. of Highways, Div. V, for 0.015 c.f.s., from unnamed spring, tributary to North Fork of Stanislaus River, for domestic purposes. Est. cost \$800.

App. 6765 (El Dorado Co.) J. R. Taylor, H. Derr & Geo. Horstmyer, 3101 T Street, Sacramento, for 600 g.p.d., from unnamed stream, tributary to South Fork of American River, for domestic purposes. Est. cost \$150.

App. 6766 (Humboldt Co.) E. F. Barker and Beatrice B. Barker, Orleans, Calif., for 1 c.f.s. and 1 ac. ft. per annum, from unnamed springs for irrigation and domestic (10 acres). Est. cost \$95.

App. 6767 (San Joaquin Co.) E. A. Hahn c/o Chas. E. Widows, C. E. 327 E. Channel St., Stockton, 0.55 c.f.s., from French Camp Slough, tributary to San Joaquin River, for irrigation purposes (75.4 acres). Est. cost \$3600.

App. 6768 (Los Angeles Co.) Irving A. Swanson, 516 So. Electric Street, Alhambra, Calif., for 0.125 c.f.s., from Violin Canyon, tributary to Castaic River, for domestic purposes.

App. 6769 (Modoc Co.) Jake Recheister, Cedarville, Calif., for 1.10 c.f.s. from Cedar Creek, tributary to Middle Alkali Lake, for irrigation purposes (55 acres). Est. cost \$50.

App. 6770 (Fresno Co.) City of Fresno, c/o L. Rowe, City Att'y, Pacific Southwest Bldg., Fresno, for 500 c.f.s., from San Joaquin River, tributary to Suisun Bay, for power purposes. Est. cost \$1,000,000.

App. 6771 (Fresno Co.) for 25,000 ac. ft. per annum, from San Joaquin River, tributary to Suisun Bay, for irrigation purposes (8,500 acres).

App. 6772 (Fresno Co.) City of Fresno, for 150,000 ac. ft. per annum, for San Joaquin River, tributary to Suisun Bay, for municipal purposes.

App. 6773 (Mono Co.) Alice F. Hunewell, Bridgeport, Calif., for 1440 g.p.d., from unnamed stream, tributary to Robinson Creek, for domestic purposes. Est. cost \$150.

App. 6774 (Mono Co.) R. D. Owen, c/o Fred R. Smith, Att'y, Bishop, Calif., for 12 c.f.s., from Arrowhead Lake, tributary to Lake Mary, and thence down Mammoth Creek to

Owens River, for power purposes (818.2 h.p.). Est. cost \$50,000.

App. 6775 (Trinity Co.) Louis A. Maire, Burat Ranch, Trinity Co., Calif., for 3 c.f.s., from unnamed stream, tributary to New River, for mining and domestic purposes. Est. cost \$2000.

App. 6776 (Nevada Co.) Blue Lead Consolidated Mining Co., c/o Harry B. Gray, Supt., N. Bloomfield, Calif., for 2 c.f.s., from Logan Canyon, tributary to South Fork of Yuba River, for mining purposes. Est. cost \$500.

App. 6777 (Sierra Co.) Frank M. Phillips, Walter Olson and A. E. Lisbon, for 0.5 c.f.s., from unnamed spring, tributary to Woodruff Creek, thence Oregon Creek, thence Middle Fork Yuba River, for mining and domestic purposes. Est. cost \$500.

App. 6778 (San Bernardino Co.) William Theodore Elliot, Summit, San Bernardino Co., Calif., for 0.062 c.f.s. and 6 ac. per annum, from Little Horsethief Canyon, tributary to Mojave River, for irrigation and domestic purposes (5 acres).

App. 6779 (San Diego Co.) Talmage Lowe, c/o Philip Storer Thatcher, Att'y, El Cajon, Calif., for 3 c.f.s., from 6 springs, tributary to Carrizo Creek, for irrigation purposes (120 acres). Est. cost \$6000.

App. 6780 (Sierra Co.) R. H. Kingdon, La Porte, Plumas Co., Calif., for (1) 25 c.f.s. and (2) 25 c.f.s. from (1) Lover's Ravine and (2) Bald Mountain Ravine, tributary to Slate Creek and North Fork Yuba River, for mining purposes.

App. 6781 (El Dorado) H. L. Fowler, Georgetown, El Dorado, Co., Calif., for 12 c.f.s., from Pilot Creek, tributary to Rubicon Creek, for irrigation purposes (200 acres).

App. 6782 (Mono Co.) Emma Grace Parker, c/o Judge Pat. R. Parker, Bridgeport, Calif., for 10 c.f.s., from unnamed stream, tributary to Twin Lakes, Robinson Creek, for irrigation purposes (4 acres).

App. 6783 (Siskiyou Co.) C. H. McKendree, of Lakeview, Oregon, for 30,000 ac. ft. per annum, from North, South and Middle Forks of Sacramento River, for irrigation purposes.

App. 6784 (Plumas Co.) Mount Lassen Area Council, Boy Scouts of America, for 0.2 c.f.s., from Yellow Creek, tributary to Feather River, for recreational purposes. Est. cost \$2000.

EL NIDO, Merced Co., Cal.—A. Blakesley, care Merced Irrigation District, Merced, is completing plans for the construction of canals, etc., for the El Nido Irrigation district. Work involves:

(1) 12 miles of main canal, involving 150,000 cu. yds. canal excav., 65,000 sq. ft. 2-in. concrete lining;

(2) 15 miles of lateral canals, involving 120,000 cu. yds. canal excavation;

(3) construction of 24-in. to 48-in. siphons with headwalls, bridges, drops, stop-gates and side-gates, etc. A bond issue of \$135,000 will probably be voted at a later date.

FRESNO, Fresno Co., Cal.—Application has been filed by Fresno Irrigation District, J. Allen Hall, secretary, Griffith-McKenzie Bldg., Fresno, Fresno County, for the appropriation of 750 cu. ft. per second from San Joaquin River in Fresno and Madera counties and 200,000 ac. ft. per annum storage for irrigation of 241,300 acres of land, and 3600 cu. ft. per second for power development. Work will involve: power plant, to develop 75,000 h.p.; diversion dam, to be concrete, 120 ft. high and 1470 ft. long; storage

dam, concrete to be 247 ft. high and 3400 ft. long and located at Plamt. Geo. L. Swendsen, Griffith-McKenzie Bldg., Fresno, is the chief engineer.

STREET LIGHTING SYSTEMS

WOODLAND, Yolo Co., Cal.—Proceedings have been started by city trustees to install ornamental street lighting system, involving an expenditure of \$125,000. Streets in the district are: Third from Beamer to Woodland Ave.; West Keystone Ave. from Second to Third; Second from Beamer to West Keystone; East Keystone from Third to Fourth; Fourth from East Keystone to Beamer; First from Main to Beamer; Third from Main to Marshall; Second from Main to Bartlett; College from Main to Beamer; First from Main to Hayes; Second from Main to Beamer; Third from Main to Beamer.

FORTUNA, Humboldt Co., Cal.—Business Men's Association proposes installation of a modern lighting system in Main street.

SOUTH SAN FRANCISCO, San Mateo Co., Cal.—City council is considering petition presented by Grand Avenue Development Association seeking installation of an electrolier system in Grand avenue. The ass'n asks that preference be given the "Cop-lite" standard, manufactured in South San Francisco.

WOODLAND, Yolo Co., Cal.—City council declares intention (638), to install ornamental street lighting system in 3rd St. from Beamer St. to Woodland Ave.; West Keystone Ave. from 2nd to 3rd Sts.; 2nd St. from Beamer to West Keystone Ave., East Keystone Ave. from 3rd to 4th Sts., and 4th St., from East Keystone to Beamer St. Project involves the installation of 24 Union Metallic Standards complete with G. E. Novalux Unit, transformers and lamps; concrete foundations for standards, underground wiring, etc. 1911 Act. Bond Act 1915. Hearing September 25. J. H. Laugenour, city clerk.

WOODLAND, Yolo Co., Cal.—City council declares intention (636) to install ornamental street lighting system in Third St. from Main St. to Marshall Ave. Project involves the installation of 27 Union Metallic Standards complete with G. E. Novalux Unit, transformers and lamps; concrete foundations for standards, underground wiring, etc. 1911 Act. Bond Act 1915. Hearing September 25. J. H. Laugenour, city clerk.

WOODLAND, Yolo Co., Cal.—City council declares intention (634) to install ornamental street lighting sys-

tem in Second St. bet. Main St. and Bartlett Ave. Project involves the installation of 24 Union Metallic Standards complete with G. E. Novalux Unit, transformers and lamps; concrete foundations for standards, underground wiring, etc. 1911 Act. Bond Act 1915. Hearing September 25. J. H. Laugenour, city clerk.

WOODLAND, Yolo Co., Cal.—City council declares intention (630) to install ornamental street lighting system in College St. from Main to Hayes Sts. Project involves installation of 32 Union Metallic Standards complete with G. E. Novalux Unit, transformers and lamps; concrete foundations for standards, underground wiring, etc. 1911 Act. Bond Act 1915. Hearing September 25. J. H. Laugenour, city clerk.

WOODLAND, Yolo Co., Cal.—City council declares intention (635) to install ornamental street lighting system in Second St. bet. Main and Beamer Sts. Project involves installation of 21 Union Metallic Standards complete with G. E. Novalux Unit, transformers and lamps; concrete foundations for standards, underground wiring, etc. 1911 Act. Bond Act 1915. Hearing September 25. J. H. Laugenour, city clerk.

WOODLAND, Yolo Co., Cal.—City council declares intention (633) to install ornamental street lighting system in 1st St. bet. Main and Beamer Sts. Project involves installation of 23 Union Metallic Standards complete with G. E. Novalux Unit, transformers and lamps; concrete foundations for standards, underground wiring, etc. 1911 Act. Bond Act 1915. Hearing September 25. J. H. Laugenour, city clerk.

WOODLAND, Yolo Co., Cal.—City council declares intention (631) to install ornamental street lighting system in College St. bet. Main and Beamer Sts. Project involves installation of 22 Union Metallic Standards complete with G. E. Novalux Unit, transformers and lamps; concrete foundations for standards, underground wiring, etc. 1911 Act. Bond Act 1915. Hearing September 25. J. H. Laugenour, city clerk.

WOODLAND, Yolo Co., Cal.—City council declares intention (632) to install ornamental street lighting system in First St. bet. Main and Hayes Sts. Project involves installation of 36 Union Metallic Standards complete with G. E. Novalux Unit, transformers and lamps; concrete foundations for standards, underground wiring, etc. 1911 Act. Bond Act 1915. Hearing September 25. J. H. Laugenour, city clerk.

WOODLAND, Yolo Co., Cal.—City council declares intention (637) to install ornamental street lighting system in Third St. from Main to Beamer St. Project involves installation of 21 Union Metallic Standards complete with G. E. Novalux Unit, transformers and lamps; concrete foundations for standards, underground wiring, etc. 1911 Act. Bond Act 1915. Hearing September 25. J. H. Laugenour, city clerk.

GUSTINE, Merced Co., Cal.—A. C. Rice, 540 Alcatraz Ave., Oakland, at \$4850 submitted low bid to city trustees to install 37 electroliers together with underground system. Complete list of bids, all taken under advisement, follows:
A. C. Rice, Oakland.....\$4850
Taper Tube Pole Co., San Francisco.....5000
City Improvement Co., Berkeley.....5450
Frank Silveria, Gustine.....5698
Butte Electric & Mfg. Co., San Francisco.....6200

MACHINERY AND EQUIPMENT

BAKERSFIELD, Kern Co., Calif.—Until September 8, 5 P. M., bids will be received by V. Van Ripper, city clerk, to furnish two light delivery automobiles, one for Pound Department and another for Park Department. Specifications obtainable from clerk.

EUREKA, Humboldt Co., Cal.—Sept. 16, 5 p. m., bids will be received by Walter Kilde, city clerk, to furnish one 6 or 8-cylinder automobile, type roadster or coupe, painted white in conformity with state traffic regulations. Bidder to allow for Chrysler roadster no longer required. Further information obtainable from clerk.

HANFORD, Kings Co., Cal.—Until September 17, 2 p. m., bids will be received by J. H. Johnson, clerk, Sunset School District, to furnish and deliver one auto school bus complete, fully equipped; seating capacity of 30 pupils and driver; price not to exceed \$2500. Further information obtainable from clerk.

NORTHFORK, Madera Co., Cal.—Until September 24, bids will be received by Wm. Beem, clerk, Residual School District, to furnish and deliver one new 1½-ton Ford Truck Chassis, less cab; Model AA; standard 131½-wheel base; single rear wheels; gear ratio 6.6 to 1. Further information obtainable from clerk.

EL CERRITO, Contra Costa Co., Cal.—Until September 29, new bids will be received by city trustees to furnish and install a gasoline pump. Previous bids rejected. Specifications on file in office of city clerk.

FIRE ALARM SYSTEMS

PACIFIC GROVE, Monterey Co., Cal.—Proposal on the November 4 ballot will provide for the issuance of bonds of \$15,000, to finance the purchase of a motor fire truck.

RESERVOIRS AND DAMS

LAKEPORT, Lake Co., Cal.—Until Sept. 12, 8 P. M., bids will be received by Fred L. Coles, town clerk, to construct reinforced concrete reservoir on city property, adjacent to present reservoir. Check or bond for 50% of the amount bid required with bid. Plans on file in office of clerk.

NO NOT RISK AN EXPERIMENT

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September 11, 1930.

FRESNO, Fresno Co., Cal.—See "Irrigation Projects," this issue. Power development in connection with Fresno Irrigation district.

SAN JOSE, Santa Clara Co., Cal.—City Engineer William Popp instructed by city council to prepare plans for Alum Rock Park Dam at Cherry Flats. The cost is estimated at \$50,000 and will be paid from the city's General Fund.

SEWERS AND SEWAGE DISPOSAL PLANTS

SAN FRANCISCO.—Constructing Quartermaster, Fort Mason, is completing plans for a drainage system on the Skyline Blvd. at Fort Miley to prevent slides on Government property. It has not been determined whether bids for this work will be asked for or the work undertaken by Government forces.

EL CERRITO, Contra Costa Co., Cal.—City trustees are conferring with Stege Sanitary District regarding installation of 4,300 ft. 6-in. and 1,200 ft. 8-in. sewer required in the Coleman Pullman Tract and the Huber Addition Tract.

ALAMEDA, Alameda Co., Calif.—City council rejects bids to construct storm water sewer for the north High Street District. Bidders were: Heafey-Moore Co., Oakland, \$65,88; J. T. Clinch, \$66,22; L. L. Page, \$69,67.

SAN CARLOS, San Mateo Co., Cal.—Harvey E. Connor, 150 Duane St., at \$2200 awarded contract by Phelps Estate for construction of sewers in Phelps Estate Subdivision in San Carlos.

ELKO, Nevada.—Gladdey & McNeil, Boise, Idaho, were awarded contract by the city at \$15,300 to construct sewage treatment plant. Work involves: Building, including sludge pumps, piping, valve and electric work; 250 cu. yds. excavation; 800 cu. yds. borrow; 175 cu. yds. concrete; 24,000 lbs. reinforcing steel; drill 8-in. well, 50 ft. deep, and equip same with pump and motor, etc., furnishing one 22-ft. Dorr or Hardinge clarifier. Burns & McDonnell - Smith Engr. Co., 422 Western Pacific Bldg., Los Angeles, are the engineers.

MONTEREY, Monterey Co., Cal.—Until September 16, 7 p. m., bids will be received by Clyde A. Dorsey, city clerk, (2997) to construct 6-in. vitrified sewer in Grace St., from Irving Ave. to point 25 ft. nw of Prescott Ave., including two manholes and 36 4-in. wye branches. 1911 Act. Bond Act 1915. Certified check 10% payable to city required with bid. Plans on file in office of clerk.

BAKERSFIELD, Kern Co., Cal.—City council declares intention (607) to construct 6-inch vitrified san. sewers with manholes and lampholes in Public Imp. Dist. No. 607. 1911 Act. Hearing Sept. 22. V. Van Riper, city clerk.

SANTA CRUZ, Santa Cruz Co., Cal.—Until September 22, 2:45 p. m., bids will be received by S. A. Evans, city clerk, (460-C) to construct vitrified clay pipe main sanitary sewer with wye branches and brick manholes in Plateau Ave. bet. Woodrow Ave. and Columbia St. 1911 Act. Certified check 10% payable to city required with bid. Plans on file in office of clerk. Roy Fowler, city engineer.

STOCKTON, San Joaquin Co., Cal.—City Manager Walter B. Hogan preparing estimates for sewer in Center St. to Stanislaus or Grant St., along the bed of Mormon Channel. South Side Improvement Club advocates filling in the channel. If the channel is not filled in, three bridges will have to be constructed at a cost of \$50,000 each. Lyle Payton is city engineer.

SAN FRANCISCO.—C. B. Eaton, 715 Ocean Ave., at \$41,970 awarded contract by Board of Public Works to construct Section D of the Alemany Storm Drain, to be financed from the Sewer Bond Issue. Project involves: 16,200 lin. ft. timber piling; 1195 lin. ft. 14-in. by 8-ft. wooden box sewer excluding piling; 600 lin. feet timber center partitions; 226 lin. ft. 2-ft. by 4-ft. 6-in. wood box sewer, excluding piles; 188 lin. ft. 12-in. V.C.P. sewer; 125 lin. ft. 10-in. V.C.P. culvert; four timber manholes; three side connection posts; 1 connection from 14-ft. by 8-ft. box section to 2-compartment concrete section.

SAN FRANCISCO.—Healy - Tibbets Co., 64 Pine St., at \$128,493 awarded contract by Board of Public Works to construct Section C of the Alemany Storm Drain, to be financed from the Sewer Bond Issue. Project involves: 915 lin. ft. 2-compartment 8-ft. 6-in. x 11-ft. reinf. conc. storm mains exclusive of piles; 394 lin. ft. 2-ft. 6-in. x 3-ft. 9-in. reinf. conc. sewer exclusive of piles; 310 lin. ft. 8-in. V.C.P. underdrain covered with concrete or embedded in broken rock; 620 lin. ft. 10-in. V.C.P. underdrain covered with concrete or embedded in broken rock; 900 lin. ft. 12-in. V.C.P. underdrain covered with concrete or embedded in broken rock; 8 manholes, complete, on concrete sewers; 128,000 lin. feet of timber piling.

WATER WORKS

SAN FRANCISCO.—Bids will be asked in about one week by the Constructing Quartermaster, Fort Mason, to furnish and erect a 50,000-gallon steel water tank with a 55-ft. steel tower to replace the present steel water tank at Fort Miley. Further mention will be made of this work when bids are asked.

SAN BRUNO, San Mateo Co., Cal.—Until Sept. 24, 8 p. m., bids will be received by Emil A. Bohm, city clerk, to construct extension to Municipal Water Works System in the Fifth Addition; estimated cost \$3000. Certified check 10% required with bid. Plans on file in office of clerk.

SAN FRANCISCO.—Until Sept. 22, 3 p. m., under Proposal No. 628, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish 2500 ft. of 12-in. bell and

spigot, tar coated cast iron pipe (made in the U. S. A.); for the S. F. Water Department. Specifications obtainable from above.

PLAYGROUNDS & PARKS

SAN LEANDRO, Alameda Co., Cal.—The following have been granted permits by the city trustees to construct and operate miniature golf courses:

L. H. Bunker, southwest corner of Teralta Avenue and East 14th.
Fred Sharer, 525 East 14th street.
G. H. Wendt & Co., 425 East 14th street.

S. Faulkner, J. O. Dick, C. H. Day, Cascholt Bakken and H. E. Bockock, 147 Juana.

E. M. Bierstein, for Herbert Breed, at 224 East 14th.

SAN MATEO, San Mateo Co., Cal.—City council will call an election shortly to vote bonds of \$90,000 to finance purchase of the residence and 7-acre grounds of Mrs. Tohin Clark at Ninth Ave. and El Camino Real, as a site for a civic center. The purchase price of the home and grounds is placed at \$70,000, the remaining \$20,000 being for contemplated improvements.

STREETS AND HIGHWAYS

EUREKA, Humboldt Co., Cal.—Until Sept. 20, 11 a. m., bids will be received by Fred M. Kay, county clerk, to construct 1/4 mile of new road along Devil's Slough west of Arcata in Rd. Dist. No. 5. Certified check 5% required with bid. Plans on file in office of clerk and obtainable from County Surveyor Frank Kelly.

ALTURAS, Modoc Co., Cal.—Valley Paving and Construction Co., Visalia, at \$123,861.25 awarded contract by city council to improve Main street between Carlo and 12th streets, involving 29,000 sq. yds. asph. conc. pave; 4600 cu. yds. crushed rock sub-base; 8000 linear feet curbs and gutters (hyd. cement concrete); 4600 sq. yds. hyd. cem. concrete sidewalks; 5300 lin. ft. 4- and 6-inch water mains with fittings. Other bids: A. Teichert and Son, Sacramento, \$127,848; Hanrahan Co., San Francisco, \$128,495; Clark and Henery Construction Co., San Francisco, \$129,932.

SAN LUIS OBISPO, Cal.—The county supervisors have appropriated \$13,243 toward the cost of improvements in Atascadero, including grading, paving to a width of 30 ft. and lights along the state highway through Atascadero.

CONTRACTORS' MACHINE WORKS

SPECIALISTS ON REPAIRING AND REBUILDING OF

Bunkers, Hoppers, Chuting, Conveyors, Rollers, Mixers, Hoists, Shovels, Tractors, Pavers, Crushers, Drag Lines, Elevators, Car Unloaders, and other Road and Building Equipments;

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57 Zoe St., bet. 3rd and 4th, off Brannan St.
Phone GARfield 4374
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PACIFIC GROVE, Monterey Co., Cal.—Until September 18, 7:30 p. m., bids will be received by Orrell C. Stubbs, city clerk, (3233) to improve Junipero Ave. bet. Forest Ave. and east city limits, involving grading; conc. curbs and gutters; asph. conc. pave.; storm drains; conc. catchbasins. 1911 Act. Bond Act 1915. Certified check 10% payable to city required with bid. Plans on file in office of clerk.

PACIFIC GROVE, Monterey Co., Cal.—City council declares intention, (3254) to improve Pacific Ave. bet. Lighthouse Ave. and point 70 ft. north of Pacific Ave., involving cem. conc. curbs and gutters; 2-in. asph. conc. pavement on existing base; 2 conc. catchbasins; 4-in. vit. clay lateral sewers. 1911 Act. Bond Act 1915. Hearing Oct. 2. Orrell C. Stubbs, city clerk.

PLUMAS COUNTY, Cal.—Finnell Co., Inc., Sacramento, at \$13,365 awarded contract by U. S. Bureau of Public Roads to furnish and apply oil and processing oil treated existing crushed rock surfaced road, Sections A and B, Route 23, Quincy-Beckwith National Forest Highway, 12.046 miles in length, involving 12.046 mi. mixing oil treated crushed rock surfacing and 181,500 gals. asph. oil furnished and applied.

SANTA BARBARA, Cal.—Until 2 P. M., Sept. 18, bids will be received by the city council for grading Ortega St. bet. Garden and Quarantina Sts., Cota St. bet. Laguna and Olive Sts., and Quarantina St. bet. Haley and Cota Sts., and Salspuedes St. bet. Haley and Ortega Sts. 1911 Act. E. B. Brown, city engineer.

LOS ANGELES COUNTY, Cal.—As previously reported, bids will be received October 1 by State Highway Commission to grade and pave with cement concrete 1 mile at Castaic Creek Project involves: Clearing and grubbing; 22,000 cu. yds. rdwy. excav. without class; 100,000 sta. yds. overhaul; 50 cu. yds. struc. excav.; 11,500 sq. yds. subgrade for pavement; 2400 cu. yds. Class A Portland cement concrete (pavement); 4 cu. yds. Class A Portland cement concrete (structures); 56,000 lbs. bar reinf. steel (pavement and structures); 44 lin. ft. 18-in. and 51 lin. ft. 20-in. corr. metal pipe; 1420 cu. yds. removing and disposing of concrete in existing pavement; 2.0 miles new property fence; 51 stations finishing roadway; 14 each, monuments complete in place. The State will furnish corrugated metal pipe.

SAN MATEO COUNTY, Cal.—As previously reported, bids will be received October 1 by State Highway Commission, to surface with bituminous treated crusher run base, 7.3 mi. between San Mateo and Redwood City. Project involves: 73,800 tons crusher run base; 9350 tons screenings (surface treatment); 600 tons emulsified asphalt (surface treatment); 2100 bbls. light fuel oil; 325 cu. yds. structure excavation; 748 each, timber guide posts; 76 each, culvert markers; 380 stations finishing roadway.

SOUTH SAN FRANCISCO, San Mateo Co.—Hanrahan Co., Standard Oil Bldg., San Francisco, at \$79,548.60 submitted low bid to city council (C1), to improve Linden Ave., bet. Railroad Ave. and Southern Pacific Company's Bay Shore Line involving grading; hydraulic cement concrete

sidewalks, gutters, curbs; pavement consisting of 3-inch asphaltic concrete base; 6-in. waterbound rock macadam sub-base on cushion and 2-inch asphaltic concrete wearing surface; two steel reinforced hydraulic concrete bridges; concrete box culvert; vitrified salt-glazed ironstone pipe sanitary sewer; brick manholes, catchbasins, electroliners, cement concrete wall. Complete list of bids follows: Hanrahan Co., \$79,548; Union Paving Co., \$82,371; Fay Improvement Co., \$89,809.

GILROY, Santa Clara Co., Cal.—Hanrahan Company, Standard Oil Building, San Francisco, at \$77,774.54 awarded contract by city council to improve portions of Hanna, Rosanna and other streets, involving: 500,882 sq. ft. 5-in. asph. pavement; 41,515 sq. ft. 2-ft. gutter; 3736 lin. ft. curb; 4500 sq. ft. sidewalk; 2652 lin. ft. 6-in. conc. storm sewer; 9 catchbasins; 10,318 cu. yds. excavation. Complete list of bids follows: Hanrahan Co., \$77,774; Union Paving Co., \$79,424; Peninsula Paving Co., \$86,855.

ORANGE COUNTY, Cal.—T. M. Horgan Paving Co., Los Angeles, at \$95,432 awarded contract by State Highway Commission to grade and pave with cement concrete 3.3 miles from Seal Beach to Sunset Beach.

RED BLUFF, Tehama Co., Cal.—Following a conference with officials of Tehama, Trinity and Humboldt counties, the State Highway Commission has assigned an engineer to estimate the cost of a highway from Red Bluff to Eureka, via Beegum, to shorten the distance from Red Bluff to the coast. The present road runs through Redding and across to Arcata.

BERKELEY, Alameda Co., Calif.—Oakland Paving Co., 5000 Broadway, Oakland, at \$13,300 awarded contract by Regents of the University of California to construct cross campus road on grounds of the university.

SAN LUIS OBISPO COUNTY, Cal.—Following bids received Sept. 10 by State Highway Commission, to furnish and apply seal coat to existing bituminous macadam surfacing on 15.4 miles between 1.7 miles west of Shandon and the east boundary:

Fred. Nighbert, Bakersfield.....\$14,998
Granite Const. Co., Watsonville 15,811
E. R. Dennis Construction Co.,

San Diego 15,870
Bids held under advisement.

SANTA CRUZ, Santa Cruz Co., Cal.—Until September 23, 2:30 p. m., bids will be received by H. E. Miller, county clerk, to improve Sequel and Santa Jose Road, Section 2 in Sequel Road District. Certified check 10% required with bid. Plans obtainable from County Surveyor Lloyd Bowman on deposit of \$5, returnable.

SANTA CRUZ, Santa Cruz Co., Cal.—Until September 23, 2:30 p. m., bids will be received by H. E. Miller, county clerk, to improve East Cliff Drive, Section 1 and 17th Avenue in Branciforte Road District. Certified check 10% required with bid. Plans obtainable from County Surveyor Lloyd Bowman on deposit of \$5, returnable.

SAN MATEO COUNTY, Cal.—Basich Bros. Construction Co., Torrance, at \$83,416.30 awarded contract by State Highway Commission to grade 4.1 miles between Redwood City and Willow Road

BERKELEY, Alameda Co., Cal.—Until September 23, 10 a. m., bids will be received by Florence E. Turner, city clerk, (651) to improve portions of La Loma Ave. and Glendale Ave., involving grading; paving with oiled macadam and portions to be re-macadamized; conc. curbs and gutters, concrete walls, walks and steps, rubble masonry walls, highway fences; catchbasins; corr. iron pipe culverts and vit. sewer. 1911 Act. Bond Act 1915. Certified check 10% payable to city required with bid. Plans on file in office of clerk.

SAN JOSE, Santa Clara Co., Cal.—Union Paving Co., Call Bldg., San Francisco, at \$15,271.95 awarded contract by city council (5149), to improve Elm street, between Ville and McKendrie streets, involving grading; 14-in. asphaltic concrete wearing surface; 24-in. asphaltic concrete gutters, walks; 268.50 feet of 6-in. vitrified pipe sanitary sewers; brick manholes; 4-in. vitrified pipe sewer lateral; 2 sanitary flushing inlets.

SAN FRANCISCO.—Meyer Rosenberg, 1755 San Bruno Ave., at \$83,766 awarded contract by Board of Public Works to improve, under Contract No. 21, Section B of Sunset Blvd. between San Antonio Ave. and Yorba St., estimated cost, \$90,000. This project will consist of grading and paving that section of the boulevard lying between 36th and 37th Aves., from Santiago Ave. to Sloat Blvd., involving in the main 84,000 cu. yds. of excavation and 92,000 sq. ft. of asph. macadam pave. There will be provision for two 30-ft. roadways, two 15-ft. pedestrian walks and one 15-ft. equestrian drive.

SAN FRANCISCO.—Chas. Harney, Call Bldg., at \$11,992 awarded contract by Board of Public Works to improve 17th Ave. bet. Moraga and Noriega Sts., involving grading; concrete curb and walks; 8-in. and 12-in. vit. pipe sewers with manholes; side sewers and wye branches; br. catchbasin; 6-in. class F conc. base pavement with 2-in. asph. conc. surface.

STOCKTON, San Joaquin Co., Cal.—County Surveyor John E. Manthey is preparing plans for forty miles of grade streets in subdivisions in and about Stockton.

MARTINEZ, Contra Costa Co., Cal.—Until October 6, 11 A. M., bids will be received by J. H. Wells, county clerk, (3) to widen Lowell Ave. from 36th St. to San Pablo Ave. and 36th St. bet. Lowell and Andrade Aves., involving grading; Durite asph. conc. pavement on broken rock cushion; cement concrete curbs, gutters; vitrified ironstone sewers; br. and conc. manholes. Acq. and Imp. Act 1925. Certified check 10% payable to county required with bid. Plans on file in office of clerk and obtainable from E. A. Hoffman, engineer, City Hall, Richmond.

SAN MATEO COUNTY, Cal.—Until October 1, 2 p. m., bids will be received by State Highway Commission to surface with bituminous treated crusher run base, 7.3 miles between San Mateo and Redwood City.

See call for bids under official proposal section in this issue.

LOS ANGELES COUNTY, Cal.—Until October 1, 2 p. m., bids will be received by State Highway Commission to grade and pave with Portland cement concrete, 1.0 mile at Castaic Creek.

See call for bids under official proposal section in this issue.

SANTA ROSA, Sonoma Co., Calif.—Until September 22, bids will be received by county supervisors for
(1) grading approx. 1½ mile of road from Hacienda to Hilton station;
(2) grading approx. ¾ mile on Lakeville-Sears Point route.
Specifications obtainable from Co. Surveyor E. A. Penick.

WOODLAND, Yolo Co., Cal.—Until Sept. 20, bids will be received by county supervisors to grade and pave 1,420 ft. of highway along the west boundary of Davis from First St. to the state highway, the county to pay one half the cost and the city of Davis the remaining half. Est. cost, \$9,000. Plans obtainable from county surveyor at Woodland.

OAKLAND, Calif.—Until September 23 bids will be received by George Gross, county clerk, for 2.6 miles oil surfacing of road in Redwood Canyon from the Oakland city limits. Project involves 245,000 sq. ft. oiling. Estimated cost \$4,800. Specifications obtainable from the office of the clerk. Geo. A. Posey, county surveyor.

SAN LUIS OBISPO, San Luis Obispo Co., Cal.—Due to protests of property owners the county supervisors have abandoned proceedings to improve portions of Bajada, Dalzura, Olmeda, Tunitas, Juanita, San Jacinto, Rosario Ave., etc., under Assessment District No. 18, involving grading; Bitumulus surface pavement on waterbound macadam base; gravel shoulders; corr. iron pipe culverts; cem. concrete headwalls, and appurtenances, welded iron water pipe, fittings and hydrants. Imp. Bond Act of 1915. Chas. E. Watt was engineer on the project.

CLARK COUNTY, Nevada.—A. D. Drumm, Fallon, Nevada, at \$47,838.78 awarded contract by State Highway Commission for 12.62-miles from California-Nevada state line to Jean, Route 6, Section A, involving: 60,500 cu. yds. excav. unclass.; 17,689 yd. sta. overhaul; 12.62 mi. prepare sub-grade and shoulders; 40,800 cu. yds. crushed rock or crushed gravel in place; 600 cu. yds. crushed rock or crushed gravel in stockpile; 105 cu. yds. class B concrete; 706 lin. ft. installing 18-in., 1052 lin. ft. 23-in., 92-lin. ft. 30-in., and 60 lin. ft. 36-in. corrugated metal pipe; 34 monuments in place; 2 furnish and install posts for federal aid markers; lump sum, remove and reconstruct buildings. Other bidders were: J. N. Tedford, Fallon, \$51,937.16; Dodge Bros., Fallon, \$52,256.56; Ken Hodgman, Pasadena, Calif., \$55,540.85; Martin Bros. Trucking Co., Long Beach, Cal., \$55,823.67; Gibbons & Reed Co., Salt Lake City, \$56,255.56; General Const. Co., Los Angeles, \$56,717.78; Fleming Const. Co., Los Angeles, \$59,010.73; Triangle Road Grading Co., San Bernardino, \$59,839.47. Engineer's estimate, \$73,898.06.

REDDING, Shasta Co., Calif.—J. P. Brennan, Redding, at \$1,055.90 awarded contract by Shasta Union High School District, for grading and excavation in connection with extension of Magnolia Ave. from Eureka Way to 9th St.

LOS ANGELES CC., Cal.—Carpenter Bros., Inc., Beverly Hills, at \$31,149 awarded contract by State Highway Commission to construct a reinforced concrete girder bridge across Castaic Creek, about ¼ mile north of Castaic Junction, composed of seven 35-ft. spans on concrete bents and concrete abutments with pile foundations.

OAKLAND, Cal.—Until September 23, bids will be received by George Gross, county clerk, to construct a concrete dam across Arroyo Del Valle Creek near the sanitarium; estimated cost, \$4150. Bids are being received on four alternate propositions, the proposition to be accepted depending upon the amount of money necessary for construction. Project involves:

	Prop. A	Prop. B	Prop. C	Prop. D
Excavation, above El 64B	145	300	640	890
Excavation, below El 64B	50	100	150	200
Excavation, rock	80	125	175	220
Concrete, cubic yards	155	255	415	520
Steel, pounds	2900	4400	5800	7300
Six-inch concrete apron, square feet	330	330	330	330

Plans on file in office of clerk and obtainable from County Surveyor George A. Posey.

YREKA, Siskiyou Co., Cal.—Pacific States Cast Iron Pipe Co., 267 Washington St., Portland, Oregon, awarded contract by city trustees to furnish and deliver c. i. pipe and fittings. Following is a complete list of bids received:

Pacific States Cast Iron Pipe Company, 267 Washington St., Portland, Ore.:	
1420 ft. 4-in. McWain Pacific, Horizontal Sand Cast, B&S	
Class 150 Precalced Cast Iron Pipe, per foot	\$.576
600 feet six-inch	.848
500 feet eight-inch	1.19
400 feet 2-in. x 15-ft.	.282
1—6x4-in. All Bell Precalced Cross, each	\$13.40
2—8x6-in. All Bell Precalced Cross, each	21.38
1—6x6-in. All Bell Precalced Cross, each	15.28
2—6x6-in. All Bell Precalced Tees, each	12.90
1—8x6-in. All Bell Precalced Tees, each	17.95
1—6x4-in. All Bell Precalced Tees, each	10.98
2—4x6-in. All Bell Precalced Tees, each	11.59
4—6x4-in. B&S Precalced Reducers, each	5.76
4—4x2-in. B&S Precalced Reducers, each	1.66
1—4-in. Solid Open Bell Sleeve, each	3.16
1—6-in. Solid Open Bell Sleeve, each	4.16

All Bids F.O.B. Yreka.

American Cast Iron Pipe Company, Balboa Bldg., San Francisco:

1420 ft. 4-in. Class 150 Mono-Cast Centrifugal B&S cast Iron	
Pipe, 16-ft. lengths, per foot	\$.527
600 ft. 6-in. Class 150 do.	.78
500 ft. 8-in. Class 150 do.	1.10
400 ft. 2-in. Class 150 do in 5-ft. lengths	.25
1—6x4-in. Cross, each	\$13.25
2—8x6-in. Cross, each	19.50
1—6-in. Cross, each	15.40
2—6-in. Tees, each	12.00
1—8x6-in. Tee, each	16.20
1—6x4-in. Tee, each	10.90
2—4x4x6-in. Tees, each	12.80
4—6x4-in. Reducers, each	5.80
4—4x2-in. Reducers, each	3.00
1—4-in. Sleeve	2.80
1—6-in. Sleeve	4.10

All Bids F.O.B. Yreka.

United States Pipe & Foundry Co., Monadnock Bldg., San Francisco:

1420 ft. 4-in. Bell and Spigot, deLavaud Centrifugally cast	
Either 12- or 18-ft. lengths, per foot	\$.5375
500 ft. 6-inch do.	.78
500 ft. 8-inch do.	1.095
400 ft. 2-inch do.	.25
1—6x4-in. All Bell Cross	\$13.30
2—8x6-in. All Bell Cross, each	19.50
1—6-inch All Bell Cross	15.45
2—6-inch All Bell Tees, each	12.00
1—8x6-inch All Bell Tee	16.20
1—6x4-inch All Bell Tee	11.00
2—4x4x6-inch All Bell Tees, each	12.80
2—6x4-inch Reducers, each	5.85
4—4x2-inch Reducers, each	5.00
1—4-inch Sleeve	3.05
1—6-inch Sleeve	4.10

All Bids F.O.B. Yreka.



REVISED 1930 EDITION OF SAN FRANCISCO BUILDING LAWS NOW ON SALE AT OFFICE OF DAILY PACIFIC BUILDER.—\$1.00 PER COPY.

Contracts Awarded

Liens, Acceptances, Etc.

BUILDING PERMITS

SAN FRANCISCO COUNTY

1148	Torace	Jorgensen	10000
1149	Pernas	Cuneo	2000
1150	Johnson	Owner	4000
1151	Hansen	Owner	75000
1152	Nelson	Owner	4500
1153	Marian	Owner	20000
1154	Anderson	Owner	6000
1155	Johnson	Owner	1000
1156	Kranz	Owner	1000
1157	Stern	Owner	10000
1158	Baron	DeVelbiss	10000
1159	Raymond	Owner	1200
1160	Galli	Owner	8000
1161	Solomon	Disston	1800
1162	Lind	Owner	4000
1163	San Francisco	Owner	4000
1164	Rendall	Owner	1950
1165	Bjorkman	Owner	4000
1166	Vitales	Owner	1000
1167	Stanley	Owner	10000
1168	San Francisco	Lindgren	20000
1169	Robinson	Mullen	4500
1170	Standard	Owner	3500
1171	Mensor	De Luca	5750
1172	Brucia	Domico	8000
1173	Hellnitz	Owner	5000
1174	Monetto	Isaac	3250
1175	Rubanis	Psychogios	1000
1176	Meyer	Owner	5000

APARTMENTS

(1148) E MISSION 125 N Excelsior; three-story and basement frame (4) apartments.
Owner—Steve Torace.
Architect—L. O. Ebbets, 320 Fulton St.
Contractor—M. P. Jorgensen, 2225 No. Point St. \$10,000

ALTERATIONS

(1149) E LONDON 25 S France; alterations and additions to dwelling.
Owner—J. Pernas.
Architect—None.
Contractor—J. P. Cuneo & Son, 101 Amazon Ave. \$2000

DWELLING

(1150) N FRANCE 100 E Athens St.; one-story and basement frame dwelling.
Owner—G. G. Johnson, 1175 Munich.
Architect—None. \$4000

APARTMENTS

(1151) N GREEN 135 E Octavia; six-story, basement and sub-basement class A (24) apartments.
Owner—F. L. Hansen, 282 7th St.
Engineer—J. G. Little & Co., 251 Kearny Street. \$75,000

DWELLING

(1152) NW OCEAN AVE. and West Gate; 1-story and basement frame dwelling.
Owner—F. Nelson & Sons, 2 West Portal.
Architect—None. \$4500

APPURTENANCES

(1153) SE NINTH and Market Sts.; appurtenances for miniature golf course.
Owner & Builder—Marian Realty Co., 110 Sutter St.
Architect—None. \$20,000

FLATS

(1154) NE COR. WEST GATE AND Darien Way; two-story and basement frame (2) flats.
Owner—S. R. Anderson, 1433 7th Ave.
Plans by D. E. Jaekle, 744 Call Bldg. \$6000

ALTERATIONS

(1155) 472 CLIPPER ST.; alterations for underpinning.
Owner—E. Johnson & J. Larson, 1033 Noe St.
Architect—None. \$1000

ALTERATIONS

(1156) 62 SURREY ST.; alterations to dwelling.
Owner—Mrs. H. Kranz, 62 Surrey St.
Architect—None. \$1000

GOLF COURSE

(1157) S MARKET ST. bet. 12th and Van Ness Avenue; miniature golf course.
Owner—A. Stern, Alexander Bldg.
Architect—R. De Witt Norris, William Taylor Hotel.
Contractor—A. J. Stern, Alexander Building. \$10,000

FLATS

(1158) NE CASA 167 NW Retiro; 2-story & basement frame (2) flats.
Owner—E. E. Baron, 3450 Pierce St.
Architect—W. Garren, 1606 deYoung Building.
Contractor—C. D. De Velbiss, 369 Pine Street. \$10,000

APPURTENANCES

(1159) SW FELL and Franklin Sts.; class C miniature golf appurtenances.
Owner—Dr. A. Raymond, 117 Buchanan Street.
Architect—C. F. Strothoff, 2274 15th Street. \$1200

DWELLINGS

(1160) E 23rd AVE. 218 N Noriega; two 1-story and basement frame dwellings.
Owner and Builder—R. F. Galli, 1574 28th Avenue.
Architect—None. each \$4000

REMODELING

(1161) 956 POST ST.; remodel apts.
Owner—M. Solomon, 956 Post St.
Architect—Claussen and Amandes, Hearst Bldg. \$1800

DWELLINGS

(1162) E LISBON 200 N Italy; two 2-story and basement frame dwellings.
Owner and Builder—R. Lind, 54 Stanton Street.
Architect—None. \$4000

DWELLINGS

(1163) S KIRKHAM 90 W 43rd Ave.; four 1-story and basement frame dwellings.
Owner—San Francisco Home Building Co., 2742 Mission St.
Architect—C. F. Strothoff, 2274 15th Street. \$4000

CAPITAL CITY TILE COMPANY

J. C. PALEN

Manager

914 Seventh Street

Sacramento - - - California

ALTERATIONS

(1164) W FRANKLIN ST. 60 S Green St.; alterations to two flats.
Owner—W. W. Rendall, 2500 Filbert.
Architect—None. \$1950

DWELLING

(1165) SW POPE 150 NW Morse; 1-story and basement frame dwelling.
Owner—V. Bjorkman, 454 Athens St.
Architect—None. \$4000

ALTERATIONS

(1166) 1945 15th ST.; alterations and additions for kitchens and baths.
Owner—A. Vitales, 1945 15th St.
Architect—C. F. Strothoff, 2274 15th Street. \$1000

RESIDENCE

(1167) S MONTEREY BLVD. 160 N Westgate; 2-story and basement frame residence.
Owner—G. W. Stanley, 467 Turk St.
Plans by D. E. Jaekle, Call Bldg. \$10,000

EXCAVATION & FOUNDATION

(1168) E BRYANT ST., 15th to 16th Sts.; excavation and foundation for grandstand.
Owner—San Francisco Ball Club Assn. 15th and Valencia Sts.
Engineer—H. J. Brunner, Sharon Building.
Contractor—Lindgren & Swinnerton, 625 Standard Oil Bldg. \$20,000

ALTERATIONS

(1169) N O'FARRELL 200 W Stockton; alterations for bird and pet store.
Owner—A. W. Robinson, 1072 Market Street.
Architect—None.
Contractor—Mullen Manufacturing Co. 60 Rausch St. \$4500

SERVICE STATION

(1170) SW BAYSHORE and Woolsey; steel frame service station bldg.
Owner—Standard Oil Co. of California, 225 Bush St.
Architect—None. \$3500

STORES

(1171) W STOCKTON 27 N Jackson; two-story and basement class C stores.
Owner—G. W. Mensor, 601 40th Ave.
Engineer—Ellison & Russell, 712 Pacific Bldg.
Contractor—De Luca & Son, 666 Mission St. \$5750

FLATS

(1172) E FRANKLIN STREET S of Chestnut; two-story and basement frame (2) flats.
Owner—G. Brucia, 496 26th Ave.
Architect—None.
Contractor—A. Domico, 2345 Polk St. \$8000

DWELLING

(1173) SE SAN PABLO and Portola Drive; one-story and basement frame dwelling.
Owner—C. W. Hellnitz, 97 Parnassus.
Architect—Bertz, Winter & Maury, 210 Post St. \$5000

DWELLINGS

(1174) S MANGLES 25 E Genessee; seven 1-story and basement frame dwellings.
Owner—Monetto Inv. Co., 116 9th St.
Architect—None.
Contractor—H. H. Isaac, 151 Farragut. \$3250

ALTERATIONS
(1175) 611 BUSH ST.; alterations to store.
Owner—N. D. Rubanls, 611 Bush St.
Architect—None.
Contractor—N. D. Psychogios, 471 Jessie St. \$1000

DWELLING
(1176) SE PORTOLA DRIVE and Del Sur, 1-story and basement frame dwelling.
Owner—Meyer Bros., 727 Portola Dr.
Architect—None. \$5000

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

No. Owner	Contractor	Am't.
183 Bond	Parker	2515
184 Roman	Bryant	22658
185 McLean	Frank	1355
186 Same	Johnson	620
187 Associated	Austin	3500
188 Pacific	Villadsen	44000
189 Associated	Dyer	4065

ALTERATIONS
(153) 2949 LAKE ST.; alterations to dwelling.
Owner—Geo. L. Bond, 2949 Lake St.
Architect—Bertz, Winter & Maury, 210 Post St.
Contractor—W. C. Parker, 834 25th Ave.
Filed and Dated Sept. 4, 1930.
5th of each month.....75%
Usual 35 days.....25%
TOTAL COST, \$2515
Bond, \$1257.50. Sureties, Fidelity & Deposit Co. of Maryland. Limit, 45 days. Plans and Spec. filed.

ADDITIONS
(154) SE COR. BALBOA and 40th Ave., Oakland; additions to church.
Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St.
Architect—George E. McCrea, Hearst Building.
Contractor—J. A. Bryant, Ltd., 185 Stevenson St.
Filed, Sept. 5, '30. Dated, Aug. 7, '30.
Frame up.....\$664.50
Plastered.....664.50
Completed and accepted.....664.50
Usual 35 days.....664.50
TOTAL COST, \$2,658
Sureties, Aetna Casualty & Supply Co. Limit, Dec. 1, 1930.

GRADING, ETC.
(155) N 15th St., 111-3 1/2 W Guerrero St W 47-11 N 127 E 31-10% S 128-3; grading, concrete work and altering building to make it a three-story frame building with basement and garage.
Owner—L. McLean, 1609 Grove St.
Architect—G. A. Berger, 309 Valencia.
Contractor—Carl Frank as Carl Frank Co., 305 Bocana St.
Filed and Dated Sept. 6, 1930.
Rough frame up.....\$600
Brown coated.....300
Completed and accepted.....455
TOTAL COST, \$1355
Bond, \$1355. Sureties, J. S. Guerin & P. Teresi. Forfeit \$10. Limit, 15 days. Plans filed.

(186) RAISING and moving above building.
Contractor—E. K. Pearson and A. B. Johnson as E. K. Pearson & Johnson, 2051 Bryant St.
Filed and Dated Sept. 6, 1930.
Building framed.....\$630
TOTAL COST, \$630
Bond, \$630. Sureties, Fidelity & Deposit Co. of Maryland. Limit, 3 days. Plans filed.

SERVICE STATION
(187) NE LOMBARD and Steiner; all work for automobile service station.
Owner—Associated Oil Co., 79 New Montgomery St.

Architect—None.
Contractor—Austin Co., Russ Bldg.
Filed Sept. 6, '30. Dated Sept. 2, '30.
10 days after.....75%
Usual 35 days after.....25%
TOTAL COST, \$3500
Bond, \$3500. Sureties, Royal Indemnity Co. Limit, 21 days. Plans and Spec. filed.

SALES & SERVICE BLDG.
(188) 860 HOWARD ST.; all work for automobile sales agency and service building and partial wrecking of present building.
Owner—Pacific Gillespie System, Inc., 852 Howard St.
Architect—None.
Contractor—Villadsen Bros., Inc., 417 Market St.
Filed Sept. 8, '30. Dated Aug. 29, '30.
Tenth of each month.....75%
Usual 35 days.....25%
ACTUAL COST, \$44,000
Contractor to receive.....3,900
Bond, \$44,000. Sureties, Union Indemnity Co. Plans and Spec. filed.

SERVICE STATION
(189) SW THIRD and 19th; all work for automobile service station.
Owner—Associated Oil Co., 74 New Montgomery St.
Architect—None.
Contractor—The Dyer Const. Co., Ray Bldg., Oakland.
Filed Sept. 8, '30. Dated, Sept. 2, '30.
Ten days after completion.....75%
Usual 35 days.....25%
TOTAL COST, \$4065
Bond, \$4000. Sureties, Globe Indemnity Co. Limit, 21 days. Plans and Spec. filed.

COMPLETION NOTICES

San Francisco County

Recorded	Accepted
Sept. 4, 1930—S FRANCISCO 163 W Broderick 25x137-6. Carlo Bogliano to Risdon Bros.....	Sept., '30
Sept. 4, 1930—NE CHESTNUT and Jones Sts. Mrs. A L Rocca to DeLuna & Son.....	September 4, 1930
Sept. 4, 1930—W WOOL 25 N Eugenia Ave N 25 x W 70. Rosa Bush to Edw Forsman and Matt Stahl.....	September 3, 1930
Sept. 2, 1930—FTN LOTS 22 and 23 Blk 5803 St Mary's Park, desc'd: S Crescent Ave dist 3 west from west line said lot 23 east 32 south 111-684 west 32-129 north 105-92 to beg. The Roman Catholic Archbishop of San Francisco to A R Johnson.....	August 25, 1930
Sept. 2, 1930—91 S of ROMAIN ST 121-684 west 32-129 north 105-92 to beg. The Roman Catholic Archbishop of San Francisco to Andrew R Johnson.....	Aug. 25, 1930
Sept. 2, 1930—91 S of ROMAIN ST 121-684 west 32-129 north 105-92 to beg. The Roman Catholic Archbishop of San Francisco to Andrew R Johnson.....	Aug. 25, 1930
Sept. 2, 1930—NW MARKET AND S Reservoir SW 87 NW 74-4% E 114-5% Ira W Coburn to whom it may concern.....	August 27, 1930
Sept. 2, 1930—E 16th AVE 150 S Taraval S 25 x E 120. Andrew J and Betty Benson to whom it may concern.....	Sept. 2, 1930
Sept. 8, 1930—SW DARIEN WAY & E line lot 22 NW, SW and S 146-578 SE 78-461 m or l N 37 to beg ptn lots 21 and 22 blk 3264 map blks 3260 to 3269 Balboa Terrace Addn. A J and Mary A Herzig to whom it may concern.....	September 8, 1930
Sept. 8, 1930—NW PRAGUE 250 NE Persia Ave 25 x 100 blk 90, Excelsior Hd Assn. Ida A Brown to whom it may concern.....	Sept. 6, 1930
Sept. 8, 1930—LOT 39 ELK 2914 map of Laguna Honda Park Addn. J V Campbell to whom it may concern.....	September 8, 1930
Sept. 6, 1930—E ASIOTON AVE 50	

S Holloway Ave. E Backman to whom it may concern.....	September 1, 1930
Sept. 6, 1930—S 30th 50 E Harper. Thos Flood to whom it may concern.....	September 5, 1930
Sept. 5, 1930—3010 CLAY ST. Heale T Stokes to A F and G W Matlock.....	August 26, 1930
Sept. 5, 1930—NW JARBOE AVE and Putnam N 25 v W 70 Gift Map No 2 Blks 936-937. Edward Latt to whom it may concern.....	Sept. 1, 1930
Sept. 5, 1930—W 21st AVE and N Wawona St W 157-0 N 100 2 75 S 75 E 82-6 S 25; S Vicente St 82-6 E 22nd Ave E 75 x S 100. Meyer Bros to whom it may concern.....	September 4, 1930
Sept. 2, 1930—ALL LOT 24 and ptn lots 23 and 25 blk 5803 St Mary's Park desc'd: S Crescent Ave dist 1 west from west line said lot 23 east 32 south 111-569 west 32-129	
Sept. 8, 1930—NE EIGHTH and Natoma. Fay Holbrook Inc to Vogt & Davidson, Ltd.....	August 30, 1930
Sept. 8, 1930—SE VIENNA 675 NE Peru NE 25 x SE 100 Blk 68 map Silver Heights. Alex Martinet to whom it may concern.....	Sept. 3, 1930
Sept. 8, 1930—S 25th 101-9 W Dolores W 25-5 1/2 x S 114. Alfred Vannucci to whom it may concern.....	September 3, 1930
Sept. 8, 1930—LOT 21 BLK G, Columbia Heights, 116 Caine St. Lee Roy Milne to whom it may concern.....	September 6, 1930
Sept. 8, 1930—E SAN ALEJO AVE 34-874 N from S line lot 22, S 69-874 E 60-887 N 41-094 NW 78-61 m or l ptn lots 22 and 21 blk 3264 map blocks 3260 to 3269, Balboa Terrace Addn. A J and Mary A Herzig to whom it may concern.....	September 8, 1930

LIENS FILED

San Francisco County

Recorded	Amount
Sept. 5, 1930—S VICENTE 27-6 W 14th Ave W 25 x S 100. P Ceragoli vs G J Elkington, Sr, G J Elkington, A J and Mary A Herzig to whom it may concern.....	\$253.38
Sept. 4, 1930—E 11th AVE 250 N Ortega 25x120. R E Giller vs Paul and Dusine Ackenhell.....	\$175
Sept. 3, 1930—W 37th AVE 300 S Lincoln Way S 25 x W 120. F Portman as Portman's Planning Mill vs P Fegal and M E Kennedy.....	\$63.82
Sept. 3, 1930—E 11th AVE 250 N Ortega N 25 x E 120. J I Meeks vs P and D Ackenhell and K W Oertel.....	\$20
Sept. 8, 1930—N CALIFORNIA 154-7 W Steiner W 24 x N 50 W 390 W P Fuller & Co vs Mrs Lily M and James W Ericksen and J Nyman.....	\$96
Sept. 6, 1930—NEW S NORIEGA and W 38th Ave S 93 x W 240. Charles L Harney vs Albert Noller and J A Binder.....	Sept. 6, 1930
Sept. 8, 1930—E 11th AVE 250 N Ortega N 25 x E 120 O L 947. W B Jefferson as The Greater City Lbr Co vs Paul and Dusine Ackenhell.....	\$466.40

RELEASE OF LIENS

San Francisco County

Recorded	Amount
Sept. 8, 1930—SW RUSH & Franklin W 44-9 S 120. Truscon Steel Co to Ray Schwartz.....	\$100
Sept. 4, 1930—NE HOLYOKE 175 NW Burrows 25x100. B F Tomlin to Stephen and Rose Lepo and Gilbert L Plov and James Williams.....	

BUILDING PERMITS

ALAMEDA COUNTY

No.	Owner	Contractor	Am't.
1111	Shepherd	Stolte	1000
1112	Korvi	Owner	1800
1113	Snyder	Owner	5500
1114	Dooley	Owner	3500
1115	Cross	Christensen	8000
1116	Hart	Owner	1200
1117	Century	Dyer	3000
1118	Weston	Converse	5000
1119	Church	Dienger	7200
1120	Union	Keating	8000
1121	Morris	Hemenes	3000
1122	Focha	Anderson	4000
1123	Trumell	Weaver	4900
1124	Clarke	Dyer	3200
1125	Donlon	Ball	1600
1126	Burnett	Owner	1000
1127	Agnew	Jensen	1500
1128	Christy	Jensen	1000
1129	Nague	Owner	2500
1130	Beulah	Cuthbertson	3300
1131	Steindel	Owner	15500
1132	Jervis	Owner	5100
1133	Kramer	Suell	5100
1134	Otto	Mallanen	1180
1135	Arecco	Hamilton	6900
1136	Oakland	Owner	3000
1137	Wyville	Owner	1500
1138	Bets	Gaubert	5325
1139	Associated	Owner	6000

ALTERATIONS

(1111) 521 SHATTUCK AVE. **BERK.**
ELEY; alterations.
 Owner—H. W. Shepherd.
 Architect—None.
 Contractor—F. C. Stolte, 3455 Laguna Ave., Oakland. \$1000

RESIDENCE

(1112) 1201 EVELYN AVE., **BERK.**
ELEY; one-story 2-room 1-family frame residence.
 Owner and Builder—V. Korvi, 1294 Evelyn Ave., Berkeley.
 Architect—None. \$1300

RESIDENCE

(1113) 964 REGAL ROAD, **BERKE.**
LEY; two-story 5-room 1-family frame residence.
 Owner and Builder—E. L. Snyder, 159 Tamalpais Road, Berkeley.
 Architect—None. \$5500

DWELLING

(1114) W MOUNTAIN BLVD. 300 N Redwood Road, **OAKLAND**; one-story 6-room dwelling.
 Owner and Builder—Fred T. Dooley, 3936 Vale Ave., Oakland.
 Architect—None. \$3500

STORE

(1115) NE COR. 20th & BROADWAY **OAKLAND**; three-story concrete store building.
 Owner—R. H. Cross, Mills Bldg., San Francisco.
 Architect—None.
 Contractor—H. J. Christensen, Ray Bldg., Oakland. \$80,000

ADDITION

(1116) 3875 FOREST HILL AVENUE **OAKLAND**; addition.
 Owner and Builder—John H. Hart, 3875 Forest Hill Ave., Oakland.
 Architect—None. \$1200

ALTERATIONS

(1117) SW COR. 14th and Jefferson, **OAKLAND**; alterations.
 Owner—20th Century Market.
 Architect—None.
 Contractor—Dyer Const. Co., 701 Ray Bldg., Oakland. \$3000

RESIDENCE

(1118) 44 FLORIDA AVE., **BERKE.**
LEY; one-story 5-room 1-family frame residence.
 Owner—Mr. and Mrs. Weston, 594 Alcatraz Ave., Oakland.
 Architect—E. R. Converse, 1088 53rd St., Oakland. \$5000

DWELLING

(1119) W TURNLEY 300 S Sequoyah, **OAKLAND**; two-story seven-room dwelling and 1-story garage.
 Owner—Ethel L. Church, 2nd Avenue and E 14th St., Oakland.
 Architect—None.
 Contractor—Theo. R. Dienger, 1009 Excelsior, Oakland. \$7200

SERVICE STATION

(1120) SE COR. 50th AVE. and Foot-hill Blvd., **OAKLAND**; one-story brick service station.
 Owner—Union Oil Co. of California, Mills Bldg., San Francisco.
 Architect—None.
 Contractor—William C. Keating, 4209 Mountain Blvd., Oakland. \$5000

DWELLING

(1121) 401 CALLAN AVE., **SAN LE.**
ANDRO; 5-room frame and stucco dwelling.
 Owner—Ralph O. Morris.
 Architect—None.
 Contractor—Anthony Hemenes, 1264 92nd Ave., San Leandro. \$3000

DWELLING

(1122) 498 JUANA, **SAN LEANDRO**; five-room frame and stucco dwelling.
 Owner—Miss Mary Focha, 498 Juana, San Leandro.
 Architect—None.
 Contractor—E. Anderson, San Leandro. \$4000

DWELLING

(1123) 337 ARBOR DRIVE, **SAN LE.**
ANDRO; two-story 6-room frame and stucco dwelling.
 Owner—O. Trumell.
 Architect—None.
 Contractor—P. B. Weaver, 4653 San Sebastian Ave., San Leandro. \$4900

SERVICE STATION

(1124) NE COR. 57th AVE. and East 14th St., **OAKLAND**; one-story steel service station and comfort station.
 Owner—W. R. Clarke.
 Architect—None.
 Contractor—Dyer Const. Co., 701 Ray Bldg., Oakland. \$3200

ALTERATIONS

(1125) E CHURCH ST. 10 S Avenal, **OAKLAND**; alterations.
 Owner—Miss K. Donlon, 1815 69th Ave. Oakland.
 Architect—None.
 Contractor—Leo Ball, 1921 69th Ave., Oakland. \$1600

ALTERATION

(1126) 1820 ALAMEDA AVE., **ALAMEDA**; frame alteration.
 Owner and Builder—Mrs. M. L. Burnett, 1820 Alameda Ave., Alameda.
 Architect—None. \$1000

PORCH

(1127) 1106 BAY ST., **ALAMEDA**; rebuild brick and concrete porch.
 Owner—Albert C. Agnew, 1106 Bay St., Alameda.
 Architect—Kent & Haas, 525 Market St., San Francisco.
 Contractor—Jensen & Petersen, 3443 Adeline St., Oakland. \$1500

GARAGE

(1128) 1100 BAY ST., **ALAMEDA**; frame garage.
 Owner—J. R. Christy, 1100 Bay Street, Alameda.
 Architect—Kent & Haas, 525 Market St., San Francisco.
 Contractor—Jensen & Petersen, 3443 Adeline St., Oakland. \$1000

ADDITION

(1129) 3018 FOOTHILL BLVD., **OAK.**
LAND; addition and alterations.
 Owner and Builder—J. Nague, 3018 Foothill Blvd., Oakland.
 Architect—None. \$2500

DWELLING

(1130) TOMPKINS and Wilkie Sts., **OAKLAND**; one-story four-room dwelling.
 Owner—Beulah Rest Home, Oakland.
 Architect—Blaine & Olson, Berkeley.
 Contractor—Thos. A. Cuthbertson, 430 Noriega St., San Francisco. \$3300

DWELLING

(1131) NE COR. GLENBROOK DR. & Broadway Terrace, **OAKLAND**; two-story 12-room dwelling and 1-story garage.
 Owner and Builder—Sam Steindel, 38 Northampton Ave., Berkeley.
 Architect—None. \$15,500

RESIDENCE

(1132) 22 PORTSMOUTH RD., **PIED.**
MONT; one-story six-room frame residence and garage.
 Owner and Builder—Ernest R. Jervis, 1586 Vista Ave., Oakland.
 Architect—None. \$5100

MOVE RESIDENCE

(1133) 118 CAMBRIDGE WAY **PIED.**
MONT; moving residence from Oakland to Piedmont.
 Owner—Edw. Kramer, 118 Cambridge Way, Piedmont.
 Architect—None.
 Mover—D. J. Suell, 2626 Ivy Drive, Oakland. \$5100

ALTERATIONS

(1134) 125 GUILFORD ROAD, **PIED.**
MONT; alterations.
 Owner—A. F. Otto, 125 Guilford Rd., Piedmont.
 Architect—Newsom Brothers, Federal Realty Bldg., Oakland.
 Contractor—O. W. Mailanen, 1430 Allston Way, Berkeley. \$1180

RESIDENCE

(1135) 560 ARLINGTON AVE., **BERK.**
ELEY; one-story 7-room 1-family frame residence.
 Owner—Angelo Arecco, 2819 Linden St., Oakland.
 Architect—S. G. Jackson, 1098 Ranleigh Way, Berkeley.
 Contractor—Fred H. Hamilton, 1005 Chatham Road, Berkeley. \$6900

ADDITION

(1136) 732 14th ST., **OAKLAND**; tile and brick addition.
 Owner and Builder—Oakland Jewish Federation, 732 14th St., Oakland.
 Architect—None. \$3000

OFFICE

(1137) S 20th St. 200 E Webster St., **OAKLAND**; one-story tile office.
 Owner—L. J. Wyville, Lafayette, Cal.
 Architect—None. \$1500

STORE

(1138) 3629 35th AVE., **OAKLAND**; one-story store and alterations.
 Owner—G. Bets, 3629 35th Ave., Oakland.
 Architect—None.
 Contractor—Gaubert Brothers, 4735 Brookdale Ave., Oakland. \$5395

SERVICE STATION

(1139) SW COR. LAKESHORE AVE. and Trestle Glen, **OAKLAND**; 1-story brick and tile service station.
 Owner—Associated Oil Co., 79 New Montgomery St., San Francisco.
 Architect—Masten and Hurd, Shreve Bldg., San Francisco. \$6000

BUILDING CONTRACTS

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
153	Schuster	Picard	29250
154	Daneri	Atlas	2600
155	Reed	MacDonald	4200

PLUMBING, ETC.

(153) 400 PERKINS ST., Oakland; install all plumbing, sewerling, waterfitting, domestic hot water circulating system, steam heating and oil burning system in apartment building.

Owner—Harry Schuster, 2424 Curtis St., Berkeley.

Architect—None.

Contractor—W. H. Picard, Inc., 5656 College Ave., Oakland.

Filed Sept. 5, '30. Dated July 30, '30.

Monthly payments of.....75%

On completion.....Balance

TOTAL COST, \$29,250

Specifications filed.

ELEVATOR

(154) 243 ATHOL AVE., Oakland; install passenger elevator in apartment building.

Owner—J. Daneri, 6515 Raymond St., Oakland.

Architect—None.

Contractor—Atlas Elevator Co., 34 Harriet St., San Francisco.

Filed Sept. 5, '30. Dated June 1, '30.

On completion.....25%

35 days after completion.....50%

60 days after above 35 days.....25%

TOTAL COST, \$2,600

Specifications filed.

SERVICE STATION

(155) S LINE UNIVERSITY Ave. 59 ft. W of Sacramento St., Berkeley; general construction on service station.

Owner—Fred E. Reed, 88 Vernon St., Oakland.

Architect—None.

Contractor—S. O. MacDonald, 2912 Deakin St., Berkeley.

Filed Sept. 8, '30. Dated Sept. 6, '30.

On completion.....75%

Usual 35 days.....25%

TOTAL COST, \$4,200

Bond, \$4,200. Sureties, Globe Indemnity Co. Limit, 30 days.

PARISH HOUSE

(156) NW PARK BLVD. and Saint James Drive, Piedmont; general construction except lathing and plastering on 2-story frame and stucco parish house and hall.

Owner—The Roman Catholic Archbishop of San Francisco, 1109 Franklin St., San Francisco.

Architect—Wm. E. Schirmer, 700 21st St., Oakland.

Contractor—Thos. F. L. Furlong, 460 Jerome Ave., Piedmont.

Filed Sept. 10, '30. Dated Sept. 5, '30.

When staked.....\$504.60

When ready for plaster.....\$504.60

When comp. and accept.....\$504.60

Usual 35 days.....\$504.70

TOTAL COST, \$2,018.50

Bond, \$2,018.50. Sureties, Aetna Casualty & Surety Co. Limit, 100 days.

Plans and Spec. filed.

COMPLETION NOTICES

Alameda County

Recorded	Accepted
Sept. 5, 1930—LOCATION OMITTED. Mabel J. Habib to Sullivan & Sullivan.....September 4, 1930	
Sept. 4, 1930—3030 REGENT STREET, Berkeley. J. M. Kinley to whom it may concern.....Sept. 3, 1930	
Sept. 4, 1930—LOT 24, Broadmoor Park, San Leandro. Dr. A. S. Davis vs D. N. Fraser.....August 28, 1930	
Sept. 3, 1930—PTN LOT 18, map of South Mohrland, Eden Twp. Thos. J. and Lillian Green to whom it may concern.....August 29, 1930	

Sept. 2, 1930—CAMPUS of the University of California, Berkeley. California to E. T. Lesure.....August 26, 1930

Sept. 8, 1930—611 ARLINGTON AVE., Berkeley. Wm. M. Hull to T. D. Courtwright.....September 6, 1930

Sept. 8, 1930—LOT 5 BLK 4, Oakmore Terrace, Oakland. Geo. D. Hazen to J. B. Petersen.....September 5, 1930

Sept. 5, 1930—LOT 18 BLK M, Mulford Gardens. Mary Itosale Gautadine to W. A. Orford.....September 4, 1930

Sept. 8, 1930—318 ZORAH ST., Oakland. David Smart Jr. and Edda C. Smart to C. M. Andersen.....September 1, 1930

Sept. 8, 1930—CAMPUS of the University of California, Berkeley. The Regents of the University of California to E. T. Lesure.....September 2, 1930

LIENS FILED

ALAMEDA COUNTY

Recorded Amount

Correction in Amount.

Sept. 3, 1930—W LINE of PIEDMONT AVE. 190 S Dwight Way, Berkeley. Grinnell Co. of the Pacific vs George Auer, J. E. Burns and K. J. Henning.....\$96.04

Sept. 5, 1930—INTER NW BRUCE ST and NE East 32nd St., Oakland. M. C. Henry, \$153; General Plumbing Co., \$450, vs C. W. Steffen.....\$624.83

Sept. 3, 1930—W PIEDMONT AVE 140 ft S of Dwight Way, Berkeley. Grinnell Co. of the Pacific vs Geo. Auer, J. E. Burns and K. J. Henning.....\$178.60

Sept. 4, 1930—PTN LOT 1 BLK 604 Fountain Place, Oakland. J. M. Dale vs Gus Lindquist, W. H. Weibye.....\$178.60

Sept. 4, 1930—LOT 24 BLK 84, Kellersberger's map of Oakland. W. F. Garrett vs Garrett Mill & Lumber Co vs Andrew and Lilly Lowe, O. W. Thornton.....\$50

Sept. 4, 1930—LOT 25 map of the property of the California Homestead Assn., Oakland. California Supply Co vs H. E. Buckland.....\$89.69

Sept. 3, 1930—SE COR 30th ST and Broadway, Oakland. Thos. Skelly vs Firestone Tire & Rubber Co., Harold L. Paige.....\$310

Sept. 3, 1930—LOT 25, property of Capital Homestead Assn., Oakland. Atkinson Mill & Mfg. Co., Inc. \$622.42; M. Medis, \$518; The Rigoney Tile Co., \$640; Pacific Coast Aggregates, Inc., \$207.67, vs H. E. Buckland.....\$830.55

Sept. 8, 1930—LOTS 17 and 18 and ptn lot 14 Blk 158, Kellersberger's map of Oakland. Tilden Lumber Co vs Levy Estate Co., Joe Triberti, Frank Massaro, James L. McLaughlin Co, Triberti & Massaro.....\$830.55

RELEASE OF LIENS

ALAMEDA COUNTY

Recorded Amount

Sept. 5, 1930—SE 30th & BROAD-

WAY, Oakland. Thomas Skelly to Firestone Tire & Rubber Co., H. L. Paige.....\$310

Sept. 3, 1930—SE COR 30th ST and Broadway, Oakland. Judson Pacific Co to Firestone Tire & Rubber Co. and Harold L. Paige.....\$46.70

BUILDING CONTRACTS

SAN MATEO COUNTY

LIBRARY

BURLINGAME Public Library Site; general construction on one- and two-story reinforced concrete library building.

Owner—City of Burlingame.

Architect—None.

Contractor—Chas. Pedersen, 734 Prospect, San Mateo.

Filed Aug. 30, '30. Dated Aug. 28, '30.

Progress payments.....75%

Usual 35 days.....25%

TOTAL COST, \$47,360

Bond: two \$23,680. Sureties, Detroit Fidelity & Surety Co. Limit, 120 working days. Plans and Spec. filed.

SHOP & LABORATORY

MENLO OAKS; general construction on frame and stucco shop and laboratory building.

Owner—Peninsula School of Creative Education, Menlo Ave. and Oak, Menlo Park, Palo Alto.

Architect—None.

Contractor—Edward J. Schmalling, 863 Melville Ave., Palo Alto.

Filed Aug. 27, '30. Dated Aug. 8, '30.

Framed.....\$467.50

Brown coated.....\$67.50

Completed.....\$67.50

Usual 35 days.....\$67.50

TOTAL COST, \$1,870

Bond, \$935. Sureties, E. L. Schildes, and Urban Bros. Limit, 90 working days. Plans and Spec. filed.

BUNGALOW

LOCATION OMITTED; general construction on 5-room bungalow.

Owner—Fred Dixon, Daly City.

Architect—None.

Contractor—E. Jensen, Duhlin Road, Hayward.

Filed Sept. 4, '30. Dated, Aug. 4, 1930.

Roofed.....\$150

Plastered.....150

Completed.....150

Usual 35 days.....150

TOTAL COST, \$500

Limit, October 4, 1930.

SWIMMING POOL

LOCATION OMITTED; general construction on swimming pool, dressing rooms, etc. (concrete).

Owner—Charles Haas Estate, Atherton Ave., Atherton.

Architect—G. A. Dailey, 3747 Jackson St., San Francisco.

Contractor—G. H. Meese and S. E. Briggs, 1425 Burlingame Avenue, Burlingame.

Filed Sept. 5, '30. Dated, June 30, '30.

Excavated.....\$3350

Plastered.....3350

Completed.....3350

Usual 35 days.....3350.75

TOTAL COST, \$13,225.75

Limit, 75 working days. Plans and Spec. filed.

Member Insurance Brokers' Exchange

FRED H. BOGGS
INSURANCE
490 GEARY STREET

Phone FRanklin 9400

San Francisco

AUDITORIUM
JUNCTION EL CERRITO DRIVE and
Milway Road, Hillsborough; rein-
forced concrete school auditorium.
Owner—Hillsborough School District.
Architect—Villis Polk & Co., 277 Pine
St., San Francisco.
Contractor—Jacks & Irvine, 74 New
Montgomery St., San Francisco.
Filed, Sept. 3, '30. Dated Sept. 2, '30.
Progress payments.
Usual 35 days.
TOTAL COST, \$25,936
Bond: two \$12,968. Sureties, Fidelity
& Deposit Co. Forfeit \$25. Limit, Jan.
15, 1931. Plans and Spec. filed.

BUNGALOW
LOT 11 BLK G, Woodside Acres; five-
room bungalow with basement.
Owner—Robert N. Jones, et al, R. F.
D. No. 1 Box 365, Redwood City.
Architect—None.
Contractor—James B. Rixen, 428 Hud-
son St., Redwood City.
Filed Sept. 6, '30. Dated Sept. 5, '30.
Framed.....\$816.25
Brown coated.....\$16.25
Completed.....\$16.25
Usual 35 days.....\$16.25
TOTAL COST, \$3265
Limit, 90 working days.

BUILDING PERMITS

SAN MATEO

GOLF course, reinforced concrete mini-
ature, \$20,000; Lots 16, 17 and 18
Blk 15, Mt. Diablo; owner, L. C.
Howard; contractor, Chas. Stock-
holm & Sons, Russ Bldg., S. F.
GOLF course, \$5000; Lot 1-23-1/2 11 Blk
11 B St.; owner and builder, R. M.
Malone.
\$2000, lot 1 pin lot 2 blk F, El Camino
& 3rd Ave.; owner, Baywood Park
Co., San Mateo; contractor, G. W.
Williams, 1401 Broadway, San Ma-
teo.
DWELLING, \$3000; Lot 13 Blk 14;
owner, Leon Westfall; contractor,
C. B. McClain, 1412 Edgell, Burling-
ame.
BUNGALOW, \$9000; S 100 ft of Lot
284, Hill Crest Road; owner and
builder, Allan Sorrell, 1401 Flori-
bunda Ave., Burlingame.
BUNGALOW, \$4500; Lot 21 Blk 7, 600
Bayshore Blvd.; owner, C. W.
Houseman; contractor, O. Powers.
BUNGALOW and garage, \$3000; SE
40 ft. of Lot 1 Blk 6.....; owner
and builder, Dean Mitchell, 1044
Paloma Ave., Burlingame.
GOLF course, miniature, \$5000; Third
and S Ellsworth; owner, J. L.
Pattinson, 1671 25th Avenue, San
Francisco; contractor, H. Kime,
118 12th St., San Mateo.

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded.....Accepted
August 27, 1930—SCHOOL SITE,
San Carlos, San Carlos Grammar
School Dist to Young & Horst-
meyer.....August 22, 1930
August 27, 1930—LOT D BLOCK 6,
Burlingame Land Co. Nancy N.
Jones et al to Charles Hammer.....
August 21, 1930
Aug. 25, 1930—PART LOT 19 BLK
4, High School Acres, W B Tay-
lor to whom it may concern.....
August 22, 1930
Aug. 25, 1930—LOT 18 BLK 5, Bur-
lingame Hills, Arthur H Nobbs
et al to G W Williams Co.....
August 20, 1930
August 25, 1930—PT LOT 18, John
Subdiv, John Martin to whom it
may concern.....August 25, 1930
August 25, 1930—ROUTE 68 Sec A,
South San Francisco, State High-
way Commission to H W Rohl Co.....
August 12, 1930
August 25, 1930—LOT 42 Peninsula
Manor, J L Debedetti to Jos
Fee.....August 22, 1930

August 29, 1930—LOT 10 BLK 5,
Lomita Park, Hilton Taylor to
whom it may concern.....Aug. 27, 1930
August 29, 1930—LOT 6 BLK 21,
Oak Knoll Manor, John W Burns
to whom it may concern.....
August 29, 1930
August 27, 1930—SCHOOL SITE, San
Carlos School Dist to Young and
Horstmeier.....August 22, 1930

LIENS FILED

SAN MATEO COUNTY

Recorded.....Amount
Aug. 25, 1930—LOT 5 and Part Lot
6 Eagle Hill Subdiv. Julius Be-
renelsen vs H W Houghman et al.....\$44
August 25, 1930—PART LOT 314,
Homestead Assn. A P Hundervat
et al vs E P Davis.....\$117.75
Aug. 29, 1930—LOT 70, Peninsula
Manor, San Mateo Planing Mill
Co, \$889.67; San Mateo Planing
Mill Co, \$889.67, vs E D Soward,
Aug. 30, 1930—LOT 36 BLK B, G
Mazera Co vs Paul Schmidt, et al.....\$214.85
Sept. 5, 1930—PART LOT 6, Eagle
Hill Addn. San Carlos Feed & Fuel
Co vs H W Houghman, et al.....\$5.71
Sept. 6, 1930—PART LOT 6, Eagle
Hill, Palo Alto Lumber Co vs H
W Houghman.....\$134

RELEASE OF LIENS

SAN MATEO COUNTY

Recorded.....Amount
Aug. 28, 1930—LOT 3 BLK 98, So
San Francisco, J Battialini to whom
it may concern.....

BUILDING CONTRACTS

SANTA CLARA COUNTY

BUILDING
LOT 3 BLK 2 N R 1 E; also a ptn of
lot 2 situated immediately N of
said lot 3, Gilroy; all work on
building.
Owner—Bank of Italy National Trust
and Savings Assn., trustee of the
trust of Margherita Malnero, decd,
Angelo and Louis Malnero.
Architect—A. F. Roller, Crocker First
National Bank Bldg., San Fran-
cisco.
Contractor—Wm. Radtke, Fifth and
Dowdy, Gilroy.
Filed Sept. 4, '30. Dated Aug. 14, '30.
Progress payments of.....75%
Usual 35 days.....25%
TOTAL COST, \$31,779
Plans and Spec. filed.

BUILDING PERMITS

BURLINGAME

ADDITION to store, \$1500; Lot 3 Blk
16 B G Broadway; owner, Edw. R.
Martin, 170 Warren Road, San Ma-
teo; contractor, O. C. Moroney,
1437 Drake Ave., Burlingame.
LIBRARY, public, \$47,300; Lot 1 Blk
3, B L Primrose Road; owner, City
of Burlingame; contractor, Chas.
Pedersen, 734 Prospect, San Mateo

BUILDING PERMITS

PALO ALTO

RESIDENCE and garage, \$2500; 230
Fernando Avenue; owners, E. H.
Tucker and A. H. Excell; con-
tractor, Roy Heald, 636 Webster
St., Palo Alto.
RESIDENCE and garage, \$3700; 730
Princeton St.; owner, Bartley &
Stenbit, 450 California Ave., Palo
Alto; contractor, B. F. Burkhardt.
ADDITION to residence, \$500; 1039
Palo Alto Ave.; owner, G. D. Clark

1030 Palo Alto Ave., Palo Alto;
contractor, The Minton Co., Palo
Alto.

COMPLETION NOTICES

SANTA CLARA COUNTY

Recorded.....Accepted
Aug. 28, 1930—LOT 8 BLK 4, Monte-
citos, Gerald T Boyle et al to
whom it may concern.....Aug. 28, 1930
Aug. 28, 1930—LOTS 5 and 6, BLS
7, College Terrace, Mary F Flood
to whom it may concern.....August 25, 1930
Aug. 29, 1930—LOT 36 BLK 15, Ever-
green Park, Erick Erickson to
whom it may concern.....Aug. 28, 1930
August 30, 1930—LOT 5 El Abra Ct.
Clyde Alexander et al to whom it
may concern.....August 27, 1930
Sept. 2, 1930—LOT 95, Studio Hgts.
J A Wagner to whom it may con-
cern.....August 25, 1930
Sept. 2, 1930—LOT 22 Cherryhurst
Terrace, E R Estrada et al to
whom it may concern.....Aug. 30, 1930
Sept. 2, 1930—LOTS 10 and 11 Mt
Hamilton View Park, Harrison G
Krapp to whom it may concern.....
August 30, 1930
Sept. 3, 1930—S HUMBOLDT ST,
San Jose. Estate of James D Phe-
lan et al to whom it may concern.....
August 22, 1930
Sept. 3, 1930—LOT 49, Los Alamos
Acres, Nicolas Perez to whom it
may concern.....August 15, 1930
Sept. 4, 1930—SW HALF of lot 39,
Lincoln Half Acres, H M Kline
to whom it may concern.....September 2, 1930
Sept. 4, 1930—LOTS 57 and 58 Blk
12, Vendome Park No 4, V V
Washburn to whom it may con-
cern.....Sept. 3, 1930
Sept. 4, 1930—CENTER LINE Meri-
dian Road 660 ft N center line,
Moorpark Ave. Wm R Traver et
al to whom it may concern.....September 4, 1930
Sept. 4, 1930—LOT 34 BLK 1, Lin-
coln Gates, Chas W Lannin to
whom it may concern.....September 4, 1930
Sept. 4, 1930—NW HAWTHORNE
Way and 1st St, San Jose, Harry
Schuster to whom it may concern.....September 2, 1930
Sept. 4, 1930—LOT 10, Willow Glen
Orchard Tract, T L Hubbard to
whom it may concern.....August 29, 1930
Sept. 4, 1930—LOT 8 Willow Glen
Orchard Tract, Mabel Hurley to
whom it may concern.....August 29, 1930
Sept. 4, 1930—LOT 25, Third Ward
Home Tract, L C Smith to whom
it may concern.....August 30, 1930
Sept. 4, 1930—S HALF LOT 13 Blk
1 R 1 N, W C Lean to whom it
may concern.....September 3, 1930
August 27, 1930—LOT 35 BLOCK 1,
Lincoln Gates; also part lot 36
blk 1, Lincoln Gates, C B Maderis
to whom it may concern.....August 27, 1930
August 27, 1930—LOT 12 BLOCK 6,
Los Altos Park, Beatrice Best to
whom it may concern.....Aug. 28, 1930
August 25, 1930—NW FIRST and
Oak Streets, A Saso et al to whom
it may concern.....August 23, 1930
August 23, 1930—PT LOT 13, Hills
& Sampson Tract, Dell D Hersch-
bach to whom it may concern.....August 22, 1930
August 19, 1930—LOT 45, Lincoln
Half Acres, Nida M Brown to
whom it may concern.....August 19, 1930
August 19, 1930—PT LOT 7 Flem-
ing Subdiv, Margaret Coyle to
whom it may concern.....Aug. 18, 1930
August 19, 1930—SW MAGNESON
Loop 150 SE San Jose-Los Gatos
Road, John T Gant to whom it
may concern.....August 16, 1930
August 21, 1930—PART LOTS 39 to
43 Subdiv Blk 88, Palo Alto, Gus

Melster to whom it may concern
August 18, 1930
August 27, 1930—LOT 8 BLOCK 6,
North Glen Residence Park. Lester
E McDonald to whom it may
concern.....August 27, 1930
August 22, 1930—LOT 7 BLOCK 141
Embarcadero Oaks, Palo Alto.
Harry H Dabinett to whom it
may concern.....August 20, 1930

LIENS FILED

SANTA CLARA COUNTY

Recorded	Amount
August 28, 1930—LOT 48 Washing- ton Subdiv. Leo L Chelm et al vs T J Russo et al.....	\$731.53
August 29, 1930—LOT 48 Washing- ton Subdiv. Sylvain Le Deit et al vs Tony Russo.....	\$69.20
August 21, 1930—LOT 23 BLK 2, French Residence Park. O H Pyle, \$43.20; Central Supply Co, \$146.36 vs Edw A Stough et al.....	
August 21, 1930—LOT 23 BLK 2, French Residence Park. T H Baker & Sons vs Minnie Stough et al.....	\$85
August 25, 1930—LOT 23 BLOCK 2, French Residence Park. Dan Dor- sa vs Minnie H Stough et al.....	\$29
August 15, 1930—LOT 23 BLOCK 2, French Residence Park. Jas H McElroy et al, \$295.99; M & L Doane Lumber Co, \$332.04 vs Edw A Stough et al.....	\$513.67
August 19, 1930—LOT 19 BLOCK 8, Los Altos Park. D & S Lumber Co, Inc vs Francis J Mallet.....	\$269.82
August 20, 1930—1.458 ACRE, being lots 35 and 36, part lot 34, Spaulding Garden Tract, also 1.333 ac be- ing lots 25 to 31 Spaulding Garden Tract. San Jose Hardware Co vs The Western Pacific R R Co et al.....	\$3641.56
August 20, 1930—LOTS 35 and 36 & pt lot 34, Spaulding Garden Tract, also lot 17 blk 1 John R Chace Garden Villa Lots. Concrete En- gineery Co vs The Garden Val- ley Canning Co.....	\$1913.67
August 21, 1930—BEING proposed new N line State Highway & line bet ppty frmlly of O'Brien & Mer- ner Lumber Co NE to line W of Horabin NW 2-238 chains SW to line W led to David M Baird SE 1/4 SW 1/4 100 feet to State Highway SE to bek, Palo Alto. Merner Lumber Co vs Philip M Lansdale and David M Baird, Jos A Jur and Lillian A Duffield and J Vance and Marion S Matteson	\$2221.94
August 21, 1930—LOT 48 Washing- ton Subdiv. G P Mastora vs T J Russo et al.....	\$37.50
August 23, 1930—LOT 24 BLK 142 Embarcadero Oaks. Albert Cook vs Robert Neil.....	\$84.44
August 22, 1930—LOT 48 Washing- ton Subdiv. T E Baker & Sons vs T J Russo et al.....	\$30
August 23, 1930—LOT 48 Washing- ton Subdiv. Dan Dorsey, \$52; L M Clouse, \$51.72; King-Russell Elec Co, \$75, vs T J Russo et al.....	\$229.49
August 27, 1930—LOT 48 Washing- ton Subdiv. Central Supply Co vs T J Russo et al.....	\$57.95
August 25, 1930—LOT 9 BLOCK 17, Lendrum Tract. King-Russell El Co vs A C Org.....	\$29.49
August 22, 1930—LOT 9 BLOCK 17, Lendrum Tract No 3. William J Coakley vs Andrew J Ott.....	\$50

RELEASE OF LIENS

SANTA CLARA COUNTY

Recorded	Accepted
August 28, 1930—SW 40 FT LOTS 19 and 20 BLK 28, Lendrum Tract. San Jose Lumber Co to James Q Wilson.....	
August 29, 1930—S HALF LOT 16 and N half lot 17; also S 10 ft of	

N half of lot 16 blk 2, Cherry Ld
Tract. Glenwood Lumber Co to
W W Kimball.....
Sept. 2, 1930—1.458 AC being lots 35
and 36 and part lot 34 Spaulding
Garden Tract, also 1.333 ac being
part lots 25 and 31 Spaulding Gar-
den Tract. San Jose Hardware Co
to The Western Pacific Railroad
Co et al.....\$3641.56
Sept. 3, 1930—LOT 145 BLK A, Red-
wood Estates. Conover Lumber
Co to C J Bob.....
August 25, 1930—LOT 19 BLK 3,
Los Altos Park. D & S Lumber
Co to Francis J Mallet.....\$269.82
August 22, 1930—LOTS 10 and 18
Blk 123, Crescent Park No 2.
Paul M P Merner, Progress Lbr
Co, Merner Lumber Co (2), Ira
T Bridges, Palo Alto Hardware Co,
Coast Glass Co, Joe Emma, C A
Piconquist, E L Shiller, L J Lesh
Anton Anderson, A Backlund, H
Biebler, S M Henney, Grant Win-
ner, Detroit Steel Products, A S
Head, Michel & Pfeiffer Iron W'ks,
Floyd S Cowan, Samuel Zelberman
to Howard L and Nora O Gray.....

BUILDING CONTRACTS

CONTRA COSTA COUNTY

SIGNAL TOWER
MARTINEZ; constructing reinforced
concrete signal tower.
Owner—Southern Pacific Company.
Architect—None.
Contractor—Spivock & Spivock, Ho-
bart Bldg., San Francisco.
Filed Sept. 3, '30. Dated Aug. 25, '30.
Payments not given.

TOTAL COST, \$4,930
Bond, \$4,930, Sureties, United States
Guarantee Co. Plans and Spec. filed.

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded	Accepted
Sept. 5, 1930—WATER MAIN along streets in Martinez. California Water Service Co to Hutchinson Const Co of Oakland.....Aug. 20, 1930	
Sept. 5, 1930—NW ONE - FOURTH SE 1/4, 2N 1E in Rancho Los Me- danos, containing 20 acres. Stock- ton Fire Brick Co to Delta Dredg- ing Company.....August 30, 1930	
Sept. 5, 1930—LOTS 7 and 8 BLK 2, Second Amended Map of Fairview. Pietro Castrucci to whom it may concern.....August 27, 1930	

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded	Accepted
Sept. 2, 1930—LOTS 19 and 20 BLK 25, Richmond Junction Heights. Tony Rigillo to Self.....Aug. 30, 1930	
Sept. 2, 1930—LOT 2 BLK 10 Kens- ington Park. Phoebe Brutscher Gerth to T O Reese.....Aug. 26, 1930	
Sept. 6, 1930—BRIDGE over Suisun Bay from Suisun Point to Suisun Point, near Benicia. Southern Pa- cific Company to Siems, Helmers & Schaffner, Inc.....Sept. 6, 1930	

LIENS FILED

CONTRA COSTA COUNTY

Recorded	Amount
August 30, 1930—LOT 3 BLOCK 115 West Side Addn No 3, Pittsburg. Redwood Manufacturers Co vs A R Peddar.....	\$884.18
August 30, 1930—LOT 2 BLOCK 118, West Side Addn No 3, Pittsburg. Redwood Manufacturers Co vs A R Peddar.....	\$1,078.11
August 30, 1930—LOT 5 BLOCK 118 West Side Addn No 3, Pittsburg. Redwood Manufacturers Co vs A R Peddar.....	\$982.16

RELEASE OF LIENS

CONTRA COSTA COUNTY

Recorded	Amount
August 30, 1930—LOT 16 BLOCK 110 East Richmond Heights No 3. Equitable Real Estate Developers, Inc to W J O'Leary.....	
Sept. 6, 1930—LOTS 1, 2, 3, 4, 41, 42, 43, 44 in blk 1 Subdiv of Blk 1W, Rodeo, Detroit Steel Products Co to C Valine and Frank Lawrence	

BUILDING PERMITS

STOCKTON

SIGN, electric, \$3000; 248 N Sutter
St.; owner, Medico-Dental Bldg;
contractor, Commercial Elec. Co.
REPAIR fire damage, \$1500; 536 East
Jackson St.; owner, Rose Heard.
STORE, \$3966; 220 W Harding Way;
owner, Henry Eackes, 315 E We-
ber St., Stockton; contractor, John
Hackman, Sonoma Rd and Walk-
er Lane, Stockton.

COMPLETION NOTICES

SONOMA COUNTY

Recorded	Accepted
Sept. 2, 1930—NO 410 on South side of Barnett St bet South A and South B Sts, Santa Rosa. R D Maxwell to whom it may concern.....	September 2, 1930
Sept. 2, 1930—WEST Side Humboldt St about 135 ft north of city lim- its of Santa Rosa. Noyes Cording- ley to Robert Whiting.....	September 2, 1930
Sept. 3, 1930—LOT 38, plat of Ledy park being a ptn of Rancho Llano de Santa Rosa. Anna Berry to Fred E Tompkins.....	Sept. 3, 1930

LIENS FILED

SONOMA COUNTY

Recorded	Amount
Sept. 3, 1930—LOTS 8 and 9 BLK C Camp Rose Sub lots 1 and 2 blk 3 Fitch Mt Tavern Sub 10 acres in Sec 22 Twp 9 N R 9 W. George Linolf vs Fitch Mountain De- velopment Co.....	\$88

COMPLETION NOTICES

MARIN COUNTY

Recorded	Accepted
August 30, 1930—MILL VALLEY. Mildred Paul to Melvin Klyce.....	August 27, 1930
August 30, 1930—SAN RAFAEL. Jos Lingli to whom it may concern.....	August 30, 1930
Sept. 2, 1930—SAN GEORGINO. Al- fred Martin to whom it may con- cern.....	September 2, 1930

COMPLETION NOTICES

SAN JOAQUIN COUNTY

Recorded	Accepted
Sept. 6, 1930—LOT 9 BLK 1, Lake Park. George Withrow to T E Williamson.....	September 4, 1930

LIENS FILED

SAN JOAQUIN COUNTY

Recorded	Amount
Sept. 3, 1930—LOTS 25 and 29. E coln Highway Ter. W E French as Stockton Mill & Wrecking Co vs Helen A Noble.....	\$99.25
Sept. 5, 1930—LOT 8 BLK 78, S of Mormon Channel W C Gaskill vs Wm Payne.....	\$158

LIENS FILED**MONTEREY COUNTY**

Recorded	Amount
August 30, 1930—N½, N¼ of S½, S¾ of S¾ of Sec 14, all of Sec 15, all in Twp 22 S R 13 East M D B & M. S E Bretherton vs Atlas Smelting, Mining & Refining Corp, Ltd.....	\$922.33

COMPLETION NOTICES**MONTEREY COUNTY**

Recorded	Amount
Sept. 2, 1930—LOT 17 BLK 13, map of the North half of town of New Monterey. Flora Domeneck to W Hatstead.....	September 4, 1930
Sept. 2, 1930—LOTS 1, 2, 3 and 4 Bk 45, Withers Addn, Monterey. J C Anthony to whom it may concern.....	August 30, 1930
Sept. 3, 1930—DETENTION HOME, Salinas. Monterey County to M J Murphy, Inc.....	August 30, 1930
Sept. 2, 1930—LOT 10 BLK B2, map of Addn No 7, Carmel by the Sea. Laura M Wilson to Ernest S Bixler.....	August 30, 1930
Sept. 3, 1930—LOT 9 and SWly 20 ft of Lot 7 Bk 26, map of First Addn to Pacific Grove Retreat. Ralph Horton to whom it may concern.....	August 30, 1930
Sept. 3, 1930—LOT 8 BLK 4, map of Live Oaks Park. W J Sircy to whom it may concern.....	September 2, 1930
Sept 3, 1930—LOTS 7 and 8 BLK 10, Homestead Addn, Salinas City. Abbie Mann to A Vitelle.....	September 2, 1930
Sept. 4, 1930—LOT 10 and west 5 ft of Lot 8 Bk 5, Monterey Heights. T A Work Jr to John H Clark.....	September 3, 1930
Sept. 4, 1930—LOT 15 BLK 19, map of Riker & Jackson Survey, Salinas City. Charles A Grissom to J S Boyd.....	August 30, 1930

BUILDING CONTRACTS**SACRAMENTO COUNTY**

COTTAGE & LAUNDRY 2750 TWELFTH AVE., Sacramento; general construction on girls' cottage and laundry. Owner—The Sacramento Orphanage & Children's Home, 2750 12th Ave., Sacramento. Architect—None. Contractor—Azevedo and Sarmento, 17th and Vallejo Sts., Sacramento. Filed and Dated..... Payments not given. TOTAL COST, \$24,283

BUILDING PERMITS**FRESNO**

ALTERATIONS and additions, \$2500; 944 Ferger Ave.; owner, Rocco Grubbs, premises; contractor, Yarnell & Garges.
RESIDENCE, five - room, \$4750; 2691 Land Park Drive, owner, Clarence Hatt, 2313 P St., Sacramento; contractor, N. H. Lund, 3300 Cutter St., Sacramento.
RESIDENCE, five - room, \$4750; 1111 Robertson Way; owner and builder, Land Drive Terrace, 819 J St., Sacramento.
RESIDENCE, 8-room duplex, \$5,500; 2225-9 W St.; owner, Alice Powell 2019 23rd St., Sacramento.

COMPLETION NOTICES**SACRAMENTO COUNTY**

Recorded	Accepted
Sept. 5, 1930—N HALF of SW ¼ of SW ¼ of NW ¼ of Sec 62, Ro Del	

Paso. Leo H and Dorothy Baker to whom it may concern.....	September 4, 1930
Sept. 8, 1930—LOT 96 W & K Tract 33. A R Greenman to whom it may concern.....	September 5, 1930

BUILDING PERMITS**FRESNO**

ALTERATIONS and additions, \$10,-000; 334 N Broadway; owner and contractor, H. W. Huffman, 334 N Broadway, Fresno.
DWELLING, \$2600; 311 Vassar Ave.; owner, E. L. Hammond.
ALTERATIONS and additions, \$1173; 2246 Merced St.; owner, Pacific Cottonseed Co., 1245 Broadway; contractor, S. C. Ramage, 2390 McKinley St., Fresno.
ALTERATIONS and additions, \$1000; 1315 Tulare Ave.; owner, Mar Feln contractor, Fisher and McNulty, Mattei Bldg., Fresno.
DWELLING and garage, \$3500; 1011 Thorne Ave.; owner, Henry Metzler, 400 block on B St., Fresno; contractor, Adam Haas.

LIENS FILED**FRESNO COUNTY**

Recorded	Amount
Sept. 6, 1930—S & O LAND, P. Lot 1 in SW ¼ of Sec 6, 17-18. W A Vance vs Geo N Cooper et al.....	\$370

RENO CITY COUNCIL TO BAN UNSAFE BUILDINGS

A prospective city ordinance condemning all buildings within the city limits, regarded by the fire chief, the city engineer and the city health officer, as either a danger to property, life or health, are unfit for human habitation, or are a fire menace, has been given first reading by the Reno, Nevada, city council.

The ordinance provides that the fire chief, health officer and engineer are

empowered to investigate any structures and if necessary to condemn them to be removed or destroyed. The owner is given the right to appeal to the council for judgment. Failure to observe the condemnation will subject owners of the property to a fine of not more than \$500 for maintenance of a public nuisance.

In a recent article in the Outlook and Independent, William O. Scroggs points out that, while mergers and combinations in industry are more common than ever before, the old cry of "trust" is rarely heard. The exception to this is in political circles, where periodic attempts are made to secure votes by condemning business practices in some form or other.

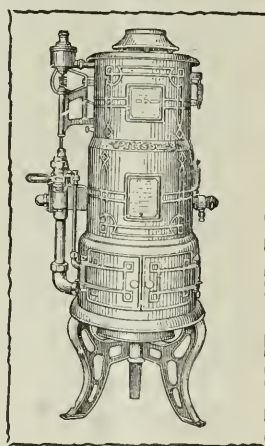
Mr. Scroggs gives four causes for this changed viewpoint on the part of the public. The first is that modern big business, instead of crushing small competitors by use of its power, now invites them into the family.

Second, the anti-trust laws protect the public against unfair consolidations.

Third, and perhaps most important, millions of Americans in all walks of life, now own an interest in our leading concerns.

Fourth, the public has learned that a better product can be produced and sold at a lower price through quantity production.

Nowadays, instead of blindly prohibiting the so-called "trusts," we regulate them in the public interest. Every unbiased person knows that modern business methods have made America the world's preeminent industrial nation. They have been responsible for our high wages and living standards, the thousand and one comforts and luxuries that have been placed within the reach of all. It is no wonder that American intelligence has seen through the "trust" bogey.



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BUILDING *and* ENGINEERING NEWS

Publication Office
547 Mission Street

SAN FRANCISCO, CALIF., SEPTEMBER 20, 1930

Published Every Saturday
Thirtieth Year, No. 38



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Devoted to the Architectural, Building, Engineering and Industrial Activities on the Pacific Coast

Issued Every Saturday

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Thirtieth Year, No. 38

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N. Y. Engineers Carry Multi-Dwelling Dispute To U. S. Supreme Court

The structural engineers of New York have asked the supreme court of the United States to pass on the validity of the New York multiple dwellings law which requires that plans for such buildings be filed by a "registered architect." The engineers claim this provision is an unjust and unlawful restriction of their profession. The case was carried to the highest court on a writ of certiorari in the matter of Oscar Goldschlag, No. 410.

The case, according to the petition, arises from a petition for a writ of mandamus to compel William F. Deegan, as tenement house commissioner of the city of New York, to receive for filing certain tenement house plans prepared by the petitioner, a professional engineer, licensed to practice in the state of New York.

By virtue of Section 120 of the law, it is explained, no tenement house shall be erected until there has first been submitted to the tenement house department by the owner of his agent, a copy of the plans for the proposed building.

The petitioner alleges that he drew plans for the owner of certain property and they were refused for filing on the avowed ground that he was neither the owner of the premises, nor a registered architect acting as agent for the owner, as required by the statute.

It is contended that Section 300 of the act, requiring "a registered architect," is unconstitutional in that it is an arbitrary classification, "unjustly circumscribing, limiting, and destroying the powers and privileges inherent to the practice of the petitioner's profession of a professional engineer and with no public evil to be remedied, and with no logical public purpose to be served."

The writ of mandamus was denied and the validity of the law sustained by the supreme court of New York.

CEMENT PRODUCTION DECLINES IN AUGUST

American Portland cement mills show a decline in the ratio of operations to capacity as indicated by the figures for the 12 months period ending August 31. According to statistics released by the Bureau of Mines of the Department of Commerce, the ratio of operations to capacity for the last 12 months was 65.6 per cent. The ratio percentage for the 12 months ending July 31, 1930, was 66.1, and for the 12 months ending August 31, 1929, was 68.2 per cent.

During the month 17,821,000 barrels were produced, 20,299,000 barrels were shipped, and stocks on hand at the end of the month were 23,810,000. Production in August, 1930, was 4.1 per cent less and shipments 11.9 per cent less than August, 1929. Stocks at the mills were 18.7 per cent more than a year ago.

PRICE CUTTING

By Herbert N. Casson in the Standard Oil Bulletin.

The price-cutter is worse than a criminal. He is a fool. He not only pulls down the standing of his goods; he not only pulls down his competitors; he pulls down himself and his whole trade. He scuttles the ship in which he himself is afloat.

Nothing is to easy as to cut prices, and nothing is so hard as to get them back when once they have been pulled down. Any child can throw a glass of water on the floor, but all the wisest scientists in the world can't pick that water up.

Who gets the benefit of price-cutting? Nobody. The man who sells makes no net profit, and the man who buys soon finds himself getting an inferior article. No manufacturer can permanently keep up the standard of his goods if the price is persistently cut. Pretty soon he is compelled to use cheaper materials, and to cut down the wages of his workers.

The man who cuts prices puts up the sign: "This way to the junk-heap!" He admits his own failure as a salesman. He admits he has been defeated according to the Marquis of Queensbury rules of business. He admits he can not win by fighting fair. He brands himself a hitter-below-the-belt. If the business world were dominated by price-cutters, there would be no business at all. Price-cutting, in fact, is not business any more than smallpox is health.

Whenever you see this sign on a price-cutter's store—"Going Out of Business"—you may be sure it is a lie. How can he go out of business when he never was in?

PRESCOTT ESTATE VALUATION SET AT \$111,286.48

A valuation of \$111,286.48 has been placed on the estate of the late F. K. Prescott, pioneer business man of Fresno, in a report filed with the county clerk at Fresno. Shares in the Prescott Brick & Lumber Co., amounting to \$64,545, constitute the bulk of the estate. The value of real estate inventoried is \$20,500.

CHICO CONTRACTORS PROTEST LICENSE FEE

Protesting the \$25 contractors' license fee, ten contractors of Chico have appointed a committee to interview city councilmen with a view to having the legislation abandoned. Contractors protesting the license fee are: J. M. Evans and son, Merrick M. Evans, W. J. Shalz, Joseph Brown, Joseph Striegall, L. O. Windsor, Noah James, H. T. Brooks, J. H. Orendorff and R. A. McKinney.

San Jose Contractor Vanishes, Leaving "Subs" Holding \$11,890 Sack

While a group of sub-contractors and material dealers were meeting in San Jose to formulate plans by which they hope to secure money due them on construction of two homes, George Moody, deputy state labor commissioner at San Jose, was taking steps to bring about the return of Thomas Carpenter, building contractor.

Carpenter, according to complaints made to Moody, vanished, leaving the sub-contractors without reimbursement for their labor, and material men without payment for their materials. Carpenter's total indebtedness for labor and materials to date, it is said, amounts to \$11,890.

Among those to whom the largest amounts are owing, according to report, are L. C. Clouse, plastering contractor; the Tilden Lumber Company; Borchers Brothers; W. F. Cooper, carpenter contractor, and several others.

Clouse, as have the other contractors, it is said, has paid his employees out of his own pocket, his loss, unless reimbursed later, being in the neighborhood of \$1000.

Carpenter, said to have come here about six months ago, built a large house at the corner of Lincoln and Fairview Avenues, paying for everything in full. Later he is said to have secured the two adjoining lots on a very small down payment, borrowed sufficient money for building a house on each from a Palo Alto building and loan company, and then sub-let all of the contracts for construction.

Because of state laws and the special circumstances of the case the sub-contractors are said to have practically no redress, their liens upon the property coming after the first mortgage given to the building and loan company and the second mortgage given to the owner of the land.

ALAMEDA COUNTY TO LIMIT PAVING APPROPRIATIONS

The Alameda county supervisors have laid down an ultimatum to the city of Oakland that in no future case will it pay more than 20 per cent of any street paving job within the city limits, and it will make no appropriations at all unless detailed cost figures are filed with the supervisors with the requests for aid.

The action of the board came when requests filed by City Engineer Walter N. Frickestad for appropriations totaling \$263,250 came up for consideration.

RATES ON GYPSUM ARE HELD UNREASONABLE

That rates on shipment of gypsum by carload lots between Arden, Nev., and Monolith, Calif., are unreasonable is the report of examiners made recently to the Interstate Commerce Commission. A "reasonable basis of rates" is recommended.

ENGINEER ANSWERS QUESTIONS TO AID BUILDING INSPECTORS ON WELDED STEEL STRUCTURES

By Frank P. McKibben, Consulting Engineer, General Electric Company

As the number of electric arc welded steel buildings increases, and as the size and height of these structures become greater, municipal Building Commissioners and Chief Building Inspectors will find at the beginning of each inspector's career, a need for the latter's instruction in the elementary and fundamental features of arc welding as applied to ordinary steel building construction. As an aid in this process the following direct questions and answers have been prepared by Mr. McKibben after consultation with several welders, welding engineers, contractors and building commissioners, and after having had experience in the design and construction of a number of welded structures varying from one to eighteen stories in height. To the experienced engineers these questions and some of the answers will appear of a very elementary nature, but it must be remembered that to the man who has not been in contact with welding, nor has been thinking in electrical terms, they give ample food for thought; simple though they are.

Question 1—What is electrical arc welding?

Answer—Welding in which two pieces of steel are melted together by the electric arc.

Question 2—What is the proper procedure for the contractor for erection of steel to follow in starting, for instance, a ten-story building?

Answer—The first tier of steel, after being erected, should be plumbed true to lines and levels, and all connections should be securely bolted or clamped, before starting any welding. Each tier thereafter should be treated in the same manner.

Question 3—What is an electrode or welding wire used in electric arc welding of steel building frames?

Answer—The electrode or welding wire is a short length of specially prepared steel wire about 12 to 18 inches long, and from $\frac{1}{8}$ to $\frac{3}{16}$ inch in diameter, which is clamped in the electrode holder held in the hand of the operator and forms one terminal of the electric circuit. This wire is practically the same grade of steel as the steel parts to be welded.

Question 4—How important is the electrode?

Answer—Of the utmost importance. Care should be taken to use only the make and type specified.

Question 5—What are the base or parent metals?

Answer—The materials to be welded.

Question 6—What should be the condition of the base metals at the time of welding?

Answer—Clean and free from rust, dirt, grease, paint or other foreign substances, except for a thin coating of linseed oil if the engineer has specified its use.

Question 7—How does the operator form the electric arc which melts the base metals together?

Answer—(a) One wire cable (lead) from the electric welding machine is fastened to the electrode

holder held in the hand of the operator, while the other wire from the machine is attached to any part of the steel pieces to be welded;

(b) The end of the welding wire is touched to the steel parts, where the weld is to be made, and current flows;

(c) The wire is then withdrawn about $\frac{1}{8}$ or $\frac{1}{4}$ inch away and the electric arc is formed.

Question 8—Which welding lead, positive or negative, is ordinarily connected to the electrode holder when welding structural steel?

Answer—The negative.

Question 9—Does the electrode or welding wire last a long or a short time?

Answer—It lasts only a short time, because the heat of the arc melts it and it must be renewed when used down to two or three inches in length.

Question 10—What type of welding current, alternating or direct, is ordinarily supplied to the welding operator for use in structural steel welding?

Answer—Direct current is almost exclusively used for arc welding structural steel.

Question 11—What diameters of electrodes are ordinarily used in structural steel welding?

Answer—At present $5/32"$ or $3/16"$ diameters are generally used.

Question 12—What precautions must be taken by the operator, while welding, or the inspector of welding while watching the welding process?

Answer—The arc should not be looked at without covering the face and neck with a helmet; in which is a darkened glass for protecting the eyes against the arc. The welder should also wear gloves to protect his hands.

Question 13—Which is preferable—a short arc or a long arc?

Answer—A short arc because it makes a purer weld, gives better fusion and penetration, and causes less spattering of the molten metal.

Question 14—What are the names of the two small dials or gauges found on most welding machines?

Answer—One is the voltmeter. The other is the ammeter.

Question 15—What does the voltmeter on the electric welding machine indicate?

Answer—The voltmeter indicates the voltage, that is, shows the number of volts, or electrical pressure; somewhat as a water pressure gauge shows the water pressure in a pipe line.

Question 16—What does the ammeter on the electric welding machine indicate?

Answer—The ammeter indicates the amperage, that is, shows the number of amperes, or quantity of electric current flowing; somewhat as a water meter records the quantity or amount of water flowing through a pipe.

Question 17—Does the needle on the voltmeter record the same amount all the time?

Answer—No. When the welding operator is welding, the needle on the voltmeter records a small

number of volts. When he is not welding and the machine is running idle the needle records a larger number of volts.

Question 18—Does the needle on the ammeter record the same amount all the time?

Answer—No. When the welding operator is welding, the needle on the ammeter records a large number of amperes. When he is not welding and the machine is running idle the needle stands at zero.

Question 19—Is there any way by which the welding operator can regulate the amount of current, that is, change the amperage, in order to get more or less current as required for welds of varying sizes?

Answer—Yes. On each machine is a small crank, or similar device, which can be turned in such a way as to furnish more or less current, and therefore more or less heat, to the welder.

Question 20—Does a welding operator in welding thick steel require more current, that is, more amperes, that is, more heat, than when he is welding thin steel?

Answer—Yes. The thicker the steel parts to be welded, the greater is the amount of heat required, and the current must be greater than when welding thin steels. The thicker the steel, the greater should be the amperage.

Question 21—How would you identify each welder's work if several were working on one job at the same time?

Answer—Require each man to use a die or stencil for marking the steel at each weld he makes.

Question 22—Name the two kinds of welded joints that are sometimes used to test welding operators to find out whether they can do good welding?

Answer—(a) Butt welds, and (b) Fillet welds.

Question 23—How is a butt welded joint made?

Answer—For thin plates, say $\frac{1}{4}$ inch thick or less, by placing the edges of the plates almost but not quite together and melting them together by the arc. For thicker plates, before applying the arc, the edges to be welded should be beveled.

Question 24—How is a fillet weld made?

Answer—Fillet welds are used where one plate to be welded is lapped over the other, and the two joined together by depositing with the arc a mass of metal against the edge of one plate and against the side of the other, forming a fillet.

Question 25—If a fillet were sawed across so as to show its cross section what would be the shape of this cross section and about how large?

Answer—The cross section of a fillet is generally a triangle. The base of the triangle is ordinarily equal to its height and is about $\frac{1}{4}$ or $\frac{3}{8}$ or $\frac{1}{2}$ or $\frac{3}{4}$ inch.

Question 26—How would you describe the size of a fillet which has a triangular cross section with base and height of the triangle each

$\frac{3}{8}$ inch and the fillet extends 6 inches along the edge of the steel plate?

Answer—This would be a $\frac{3}{8}$ inch fillet, 6 inches long.

Question 27—In welding steel building frames, made up of beams, columns, and other similar structural shapes, what kind of welds are mostly used?

Answer—Triangular fillet welds are nearly always used and are generally of $\frac{3}{8}$ inch size; although they may be specified by the engineer as small as $\frac{1}{4}$ inch and as large as $\frac{5}{8}$ inch or sometimes even $\frac{3}{4}$ inch.

Question 28—For carrying ordinary floor loads in buildings what is the safe load in shear allowed by building codes for a triangular fillet weld $\frac{3}{8}$ inch size and 1 inch long; $\frac{1}{2}$ inch size and 1 inch long; $\frac{5}{8}$ inch size and 1 inch long?

Answer—For $\frac{3}{8}$ inch fillet 1 inch long 3000 lbs.

For $\frac{1}{2}$ inch fillet 1 inch long, 4000 lbs.

For $\frac{5}{8}$ inch fillet 1 inch long, 5000 lbs.

Question 29—Is a fillet of good smooth appearance free from small gas holes, better than one with a very rough surface, and badly pitted with gas holes?

Answer—Yes, smoothness of surface and freedom from gas holes indicate better workmanship and stronger welds.

Question 30—What precautions should be taken to insure good welds?

Answer—(a) Employ only welders who have satisfactorily passed qualification tests to show their skill in welding.

(b) From time to time during progress of the work, in order to maintain a high standard, require each welder to make additional tests.

(c) See that the welding wire conforms to the requirements of the specifications and shows good welding qualities.

(d) Inspect the welds while being made to see that the operator is holding a short, steady arc and using the proper amount of current.

(e) Examine the finished welds and accept only those having a smooth appearance free from gas holes or porous places; see that the crater shows that the weld has properly penetrated the base metals; see that the edges of the deposited metal are sharp and indicate good penetration into the base metals.

Question 31—About what current should be recorded on an ammeter of a welding machine when the welding operator is depositing a $\frac{3}{8}$ inch fillet? For depositing a $\frac{1}{4}$ inch fillet?

Answer—For depositing a $\frac{3}{8}$ inch triangular fillet a current of from 175 to 200 amperes should be indicated on the ammeter. For $\frac{1}{4}$ inch fillet, a current of from 150 to 160 amperes should be indicated.

Question 32—Approximately what amount of current should be used with $\frac{5}{32}$ inch diameter electrodes? With $\frac{3}{16}$ inch diameter electrodes?

Answer—This depends somewhat on the thickness of steel to be welded but generally 150-200 amperes for $\frac{5}{32}$ inch diameter electrodes and 175-225 amperes for $\frac{3}{16}$ inch diameter electrodes.

Question 33—How should a condemned weld be removed in order to permit the joint to be rewelded?

Answer—The weld metal should be cut out either with a compressed air tool or by hand.

Question 34—Are some kinds of steel floor joists welded?

Answer—Yes. Some are made in factories by welding steel parts together.

Question 35—By what methods are welded steel floor joists connected to the steel floor beams which support them in the building?

Answer—Where welded steel floor joists are used, they are connected to the steel floor beams by bolts, clamps or small fillet welds.

ACOUSTIC TALK IS MADE ABROAD BY U.C.L.A. PROFESSOR

Dr. Vern O. Knudsen, associate professor of physics of the University of California at Los Angeles, recognized as one of America's leading authorities on acoustics, delivered a paper on the subject of "Architectural Acoustics" before the Twelfth International Congress of Architects, meeting at Budapest, Hungary, Sept. 15. His paper contained a general survey of and summary of architectural acoustics at the present time in the United States and America.

In his paper he stated that at least six laboratories in the United States are now testing absorption, insulation, speech articulation and other problems in architectural acoustics, and that frequently professional consultants on acoustics are retained by architects or owners to work with architects during the entire design and construction of a building. The fees for this work range from \$100 to \$1000, he said. Manufacturers often provide acoustical surveys and engineering service gratis, and many large firms contract acoustical treatment under guarantee.

During the course of his paper he took occasion to refer to the B'Nai B'Rith Temple in Los Angeles and the Hollywood Bowl as examples of acoustics.

"It is quite usual to plan acoustics in advance of construction," he said. "The B'Nai B'Rith Temple, Los Angeles, a large, difficult room with a volume of about one million cubic feet, was treated with acoustical plaster, carpeted floors and upholstered seats, and has excellent acoustics for both speech and music. The reverberation time is 1.65 seconds with a capacity audience. Hundreds of theatres, churches and school auditoriums could be cited as other successful examples. Nearly all large public buildings are now designed to have good acoustics.

"Speech tests in three large auditoriums, before and after acoustical correction, showed an average improvement in articulation of from 55 to 79 per cent. Similar improvements have been obtained in hundreds of other rooms."

In speaking of theatres he said upholstered seats were commonly used in acoustical correction, but that some accommodations were provided by different stage drops.

"Reflections delayed as long as 40 feet or more, especially from curved surfaces, are detrimental," he continued. "Echoes from a rear wall in one auditorium and from a domed ceiling in another mar the acoustics in rooms which otherwise have ideal reverberation.

"Speech, articulation falls off to 75 per cent in a quiet, open space at about 125 feet in front of, 100 feet to the side of, and 75 feet behind the speaker. The presence of a slight wind, or slight audience noise, greatly reduces these limits. At

Hollywood Bowl, loud speech can be heard distinctly at a distance of 300 feet, music at 550 feet, but dramatic dialogue only about 125 feet."

Conditions Improving Says Business Analyst

Colonel Leonard P. Ayres of the Cleveland Trust Company, one of the most widely known of American economists, and a banker whose former business forecasts have been borne out by the developments, has recently issued the following statement:

When we can look back at this depression, and examine it in fair perspective, we shall in all probability see that the lowest point and slowest pace of business activity came in July of this year. Commerce and industry always slow down in summer, but in July activity was abnormally low even for a summer season in an exceptionally bad year. A large part of the automobile industry was closed for inventory taking, and for the new machinery plantatory to getting out improved models. Activity in the steel industry declined to the lowest pitch since the summer of 1921. The aggregate of all manufacturing output was relatively small, and the movement of railroad freight fell to new low levels.

Now the automobile plants are resuming production, steel output is increasing, miscellaneous manufacturing is enlarging its outputs, and the railroads are beginning to receive the greater tonnage of shipments that always come in the second half of the year. It is already clear that the statistics of business will make a better showing in August than they did in July, and a better one in September than in August. In all probability a gradual improvement is beginning that will carry on through the remaining months of the year. Business is low, but it is looking up."

INSULMESH IS NEW PRODUCT OF GENFIRE

The newest of a long series of contributions to the building field, an insulating paper-backed plaster base is announced by the Genfire Steel Company of Youngstown, Ohio.

The new product, known as Insulmesh, is composed of wide mesh expanded metal with a backing of corrugated paper board which has been chemically treated to render it non-inflammable. It combines the rigidity and fire-resistance of metal lath with insulating qualities afforded by dead air cells.

Insulmesh is furnished in sheets of 27"x48" and is very easily handled and erected. The smooth surface of the expanded metal makes for easy plastering and the mesh becomes completely embedded. Economies in the plaster are made possible because the paper backing prevents any wastage and the corrugations, while saving plaster, also form ribs which add to the rigidity of the finished wall.

Insulmesh provides finished walls and ceilings which are rigid, fire-safe and soundproof, at a cost comparable with that of a job plastered over wood lath. It may be used as an interior or exterior plaster base.

ENTERS INSURANCE FIELD

A. L. Porter, for many years secretary of the Western Retail Lumbermen's Association at Seattle, has quit the lumber business and is now selling life insurance for the Pacific Mutual at Los Angeles.

THE OBSERVER

What He Hears and Sees on His Rounds

Misinformation is the weapon upon which opponents of the Golden Gate bridge are placing their entire reliance for the defeat of the \$35,000,000 bond issue November 4.

This is the statement of Alan MacDonald, general manager of the Golden Gate Bridge and Highway District, who is taking a leading part in the bridge bond campaign.

MacDonald enumerated garbled statements that are being circulated by word of mouth. Here are two outstanding ones, together with the general manager's answers:

"The cables will never support the bridge and it will fall into the water, blocking the Golden Gate."

"This is ridiculous on its face. The United States government, in granting the permit for construction, definitely answered this question."

"The Golden Gate bridge will not pay, and will increase the burden of the taxpayers of the district."

"Here is the old bugaboo, reared to terrify the timid taxpayer. As a matter of fact, the directors of the district, with the aid of the most competent traffic experts, have proven, beyond a doubt that the bridge will not only pay off its principal, interest and upkeep over a forty-year period, but will accumulate a reserve of more than half the total bond issue of \$35,000,000."

Announcement last month that the new \$20,000,000 New England building in Boston would be topped with an aluminum dome and that this metal would be used extensively to obtain special decorative effect again calls attention to the rapid progress being made in its introduction for building purposes, says Construction Methods. On the 85-story Empire State Building in New York City, to be the highest in the world, aluminum spandrels were specified, involving a large tonnage of light alloy. Recently the possibility of using aluminum or duralumin structural in the upper stories of sky-scrapers was discussed as a means of lightening the supported load throughout the structure.

Engineering construction contracts were awarded in August at the rate of 60 million dollars per week, compared with 53 millions in July and 70 millions in August, 1929, says Engineering News-Record. Public works accounted for 48.4 per cent of the total, compared with 37.8 a year ago. The average for the 35 weeks of 1930 is 12.4, compared with 11.5 in that period of 1929 and 10.35 for the whole of that year.

Streets and roads averaged 12.3 millions, compared with 14.6 in July and 16.5 millions in August, 1929. Other classes ahead of last August are sewers, excavation, and unclassified structures, both private and public. All sections of the country, except the Middle Atlantic and Far Western states, record a larger volume than a month ago.

For the eight months only New England is ahead of last year. The total drop is 19 per cent. Private construction is down 30 per cent; public up 5 per cent.

What are local chambers of commerce doing to adjust their activities and policies in the matter of bringing industries into their communities to the changed points of view of those industries under present business conditions? What new developments have chambers of commerce worked out to meet the constantly changing demands of industries? Just how are location experts making readjustments to meet new times in industry?

H. Findlay French, director of the Industrial Bureau of Baltimore, Maryland, will answer these questions and will outline new activities of chambers of commerce which are proving successful in acquiring industries for their communities when he speaks before the Industrial Property Division of the National Association of Real Estate Boards at the Division's Industrial Conference, to be held in Detroit, Michigan, October 27 and 28. French has as his subject "Recent Developments in Chambers of Commerce With Respect to Location of Industries."

The meeting will bring together representatives of large industries interested in the location problem, location experts from chambers of commerce and industrial bureaus engaged in drawing new industries to cities, heads of the industrial departments of railroads and realtors who are specialists in fitting industries into the most advantageous locations.

On a field trip scheduled for the second day of the conference, industrial areas of Detroit will be studied by the group attending the meeting.

Portland (Oregon) Chapter of the Associated General Contractors of America, has launched a movement to secure accurate data on the type of buildings most needed in Portland. The data is to serve as a guide to investors, helping them to realize more on their investments by wisely spending money for buildings of a type which are really needed rather than structures of a variety which may be overbuilt.

The Fresno City Council is considering the proposal of J. Harold McDowell, architect of New York City, to finance construction of a new civic auditorium without cost to the city in taxes or added bonded indebtedness. Tentative offers bring out the fact that Architect McDowell represents a New York firm which will finance construction of the new auditorium under a first mortgage plan. The auditorium would not cost the city anything for the first two years, and after that time, according to the architect, the auditorium may be so operated that it will pay for itself from its own earnings. The cost would be amortized in a period of about twenty years. The proposal will be given further consideration by the city council with the arrival of a representative of the New York firm proposing to finance the structure.

The State Department of Public Works announces that approximately \$63,259,000 will be available for improvement of highways in the com-

ing biennium. This is an increase of \$3,259,000 over the income in the present biennium budget.

The state's share of the 3-cent gasoline tax is estimated at \$46,400,000 for the coming biennium and approximately \$8,337,000 is expected from the federal aid allotment for highway construction. The remainder will come from motor vehicle taxes.

A large share of the income will be apportioned to counties for road improvement and will not be available for improvement of the state highway system. The department's budget is to be submitted to Governor Young the latter part of November.

Industrial building costs are the lowest in eight years, according to a survey of The Austin Co., engineers and builders. Except for a period in 1922 costs have not been so low since 1916. All of the decline is due largely to falling prices of materials and greater efficiency of labor and construction equipment. Wage rates at 18 1/2 per cent over the 1913 level continue at the peak for all time, while all building costs, including labor, are less than 40 per cent over 1913. A modern factory building, 200 feet long and 100 feet wide of steel and concrete construction can be erected in the average mid-western city for \$1.40 a square foot against \$1.87 in 1923, a high mark of \$2.55 in 1920 and \$1.60 in 1913. The decline in costs is resulting in a marked increase in inquiries from manufacturers contemplating new construction, according to Austin Co. officials.

"Seven to ten per cent difference in the volume of retail business marks the differential between a good and a bad year. If all of the unemployed in San Francisco were now to be employed their buying power would swing the balance from a period of depression to one of prosperity."

"The more we patronize San Francisco manufacturers the more jobs we provide for our own workers. Quality and price and service being equal it is the part of wisdom to spend our money with our own people."

These were the statements of L. H. Marks, director of the Chamber of Commerce, at the opening luncheon of the San Francisco Trade Week.

"The 'buy at home' idea, 'like everything else, could be carried to extremes," continued Marks. "We have here in San Francisco branches of Eastern establishments employing hundreds of local people, and they must be recognized, but generally speaking, I think that we would all of us prefer to do business with people who have our own interests at heart, people whom we know, than with salesmen who come here once or twice a year, collect their commissions on their sales and go their way." Contrasting the difference in business conditions of a few years ago, during, and immediately following the war, Marks said: "The margin of profit then was such that if we were shown merchandise that looked attractive we bought it without scrutinizing the cost, but with the return to normal conditions it was a different story. We buy carefully, and, speaking as one retailer, I believe that all things being equal we should buy at home."

TO DISCUSS EARTHQUAKES

Earthquakes and Earthquake Resistance will be discussed in a series of lectures to be given during the spring of 1931 by Prof. K. Suyehiro, well-known Japanese authority, under the auspices of the American Society of Civil Engineers. The talks will be delivered at a number of American universities yet to be se-

TRADE LITERATURE

Caterpillar Tractor Co., San Leandro, Calif., has issued a 32-page illustrated booklet and a large broadside describing the new model 60 leaning wheel grader.

How pure water can be obtained from the ocean at low cost by means of the Lea distillation process is told in a 14-page booklet published by Henry I. Lea, Santa Monica, Calif.

Book 1252 of the Link-Belt Co., Chicago, Ill., describes the improved "Clean Water" traversing intake screens manufacturer by the company.

Jordan Concrete Pipe Company, operating a plant at McKinley Ave. and the Golden State Highway, Fresno, is completing negotiations for the purchase of the plant of G. H. Holston and Sons at Caruthers.

Linatex, a resilient abrasion resisting rubber with many uses in mining and general engineering, is described in a 24-page booklet of the Wilkinson Process Rubber Sales Corp., 53 West Jackson Blvd., Chicago, Ill.

Recent bulletins issued by the Sullivan Machinery Co., Chicago., include the following: 83-R, portable air compressors; 83-T, direct motor-driven vertical compressors; 83-X, belt-driven single-stage compressors; 83-Z, vertical, high-pressure compressors; 87-C, rotating drills; 87-E, self-rotating water stoppers.

The large variety of construction machinery produced by the six divisions of the National Equipment Corp., Milwaukee, Wis., is described and illustrated in a 36-page catalog M-5. A separate publication of 43 pages is devoted to the Koehring line of pavers.

Simplex Oil Heating Corp., a national institution, with main offices at 30 Church street, New York, and branches at 820 Parker street, Berkeley, and Hunter-Dulin Bldg., San Francisco, has issued a 12-page illustrated bulletin featuring Simplex Oil Burning Systems of the industrial type. The bulletin is available on request to the main or branch offices of the company.

United Roofing Co., Ltd., capitalized for \$5000, has filed articles of incorporation with the county clerk. Incorporators are Frank A. Young, Mary S. Young and Vincent Surr. The principal place of business is San Francisco.

The second of a series of centrifugal pump selection chart bulletins has been issued by Goulds Pumps, Inc., Seneca Falls, N. Y. This book, bulletin 201, covers multi-stage pumps for capacities up to 2000 gal. per minute and heads up to 2400 ft. Within the limits indicated, it contains charts enabling the prospective pump user to determine just what pump is best suited to his individual requirements, and also complete descriptions and dimensions for pumps manufactured by the company.

HERE — THERE —
EVERYWHERE

The council-manager form of government will be placed before the voters of Oakland at the November election. The city council has adopted a resolution directing that the proposal be placed on the ballot.

A Pacific Northwest chapter of the Institute of Scrap Iron & Steel, Inc., has been formed by industries in Washington, Oregon and British Columbia, according to announcement made by Julius Giant of the Pacific Iron and Metals Co., of Seattle, who was elected president of the chapter.

Material for construction or repair of hotels in Mexico may henceforth enter that country duty free under a decree issued by the treasury department. The object is to encourage establishment of hotels and consequently to boost tourist travel. Hotels must pay duty on their furniture, however.

A prediction that men in the future all over the world will work but three days a week and be paid high wages is made by Sir William Jovitt, attorney general of England. The Englishman said there will be ups and downs in the wide world economic situation, but no permanent recovery until that time. Sir William placed a share of the blame for England's unemployment situation on the Wall Street crash last fall.

St. George Holden was elected president of the Home Builders' Association of San Francisco at the annual election of officers held at the Hotel Sir Francis Drake last Thursday. Other officers elected were: Edward Jose, first vice-president; J. V. Campbell, second vice-president; L. B. Ham, third vice-president; Grace Perego, secretary-treasurer; directors are: James Arnott, R. H. Stevenson, Louis J. Stoff, Fred Grannis, H. C. Mangels and H. Grahn.

The International Congress of Architects will hold its 1931 meeting in Washington, D. C., it was voted at the closing session of the 1930 meeting held at Budapest, Hungary, September 13. The opening sessions are planned for Washington in connection with the annual convention of the Institute. Later the Congress will convene in New York and, as a part of the architectural program of the World Exposition, in Chicago. The invitation to hold the 1931 meet in the United States was extended by Frank C. Baldwin of Washington, secretary of the institute, who was designated by President Hoover as the American delegate to the Congress.

Among recent publications of the General Electric Co., Schenectady, N. Y., are the following: Illustrated booklets on the arc welding of structural steel, centrifugal compressors, airport illumination and the Selsyn system of remote signaling, control, and indication; catalog leaflets on atomic-hydrogen arc-welding equipment, industrial haulage locomotives and miscellaneous electrical apparatus including controllers, starters, resistors, switches, thermostats, photoelectric relays and motors.

ALONG THE LINE

Resignation of O. H. Carter, manager of the Fresno Lumber Company, as a director of the Fresno Building Exchange, and appointment of Eugene Thompson of Thompson Brothers' contracting firm to fill Carter's unexpired term, is announced by C. E. McMullin, president of the Exchange. Thompson will serve until the organization's annual election next March.

Owners of property in the first fire district of Providence, R. I., have been notified to have the roofs of their buildings covered with non-inflammable roofing by October 1, 1931, when the roofing law passed ten years ago becomes effective. Many roofs in this district are now of wood. Outlying sections of the city will not be affected by the law until 1935.

Westinghouse Electric & Mfg. Co., East Pittsburgh, Pa., has appointed two assistant district managers: Fred T. Whiting for the Northwestern district, and T. R. Langan for the Northeastern district. Mr. Langan will continue as manager of the transportation division of the Northeastern district.

Charles Gulick has joined the staff of the engineering department of the College of the Pacific at Stockton. Mr. Gulick is a former Stockton engineer and was in charge of construction of the College of the Pacific buildings during the three years in which he was associated with the architectural firm of Davis-Pearce, Inc., of Stockton. During the past four years he was associated with the Riverside Portland Cement Company.

M. C. Woodruff, city building inspector of San Jose, has been named by the Jan Jose city council to represent that city at the annual convention of the Pacific Coast Building Officials' Conference to be held in Long Beach, September 29 to October 4.

Eugene Chapter of the Northwest Master Painters' Association was organized recently at Eugene, Ore. E. A. Kurnutt was elected president; S. L. Lyons, vice-president; Burr E. Fisher, secretary-treasurer. Other charter members are Earl Kast, M. O. Plato and Jepsen Bros., Earl Ludford, Ray Farnbrook and Louis W. Waldorf are dealer-associate members.

HONOR FOR SKILL

The Architects Club of Chicago is pushing a scheme for a permanent plan of Craftsmanship Awards to worthy building trades mechanics in construction work when a committee after careful study decides who are worthy of receiving a diploma and a button. Recently 40 mechanics were rewarded and given public recognition for their outstanding ability in performing their different types of construction in the Board of Trade Building.

A number of contractors favor the plan and express a willingness to go along and have it applied on their jobs. It is expected to have it in general use next year.

TRADE NOTES

Border Lumber and Commercial Co., Ltd., of San Diego, organized to engage in the lumber business, has filed articles of Incorporation with Secretary of State Jordan. The company is capitalized at \$100,000.

Wood preserving Corporation of Pittsburgh, Pa., has been formed, uniting the Ayer & Lord Tie Co. of Chicago, and the Century Wood Preserving Co. of Pittsburgh. The two companies will continue under their present names and managements.

Osthoff & Company, with headquarters in San Francisco, has recently established a branch factory in Oakland. The company manufactures flasher signs for advertising purposes. This old established San Francisco manufacturer has 30 on its payroll in San Francisco, and has opened the Oakland branch factory with five on its payroll. C. F. Goss is Oakland manager.

Los Banos Lumber and Supply Co. of Los Banos, announces change of firm name to Reeves Lake Land Co., Ltd., of Fresno. Notice of change was recently filed with the county clerk at Merced.

MODESTO ADOPTS UNIFORM BUILDING CODE

The uniform building code as recommended by the Pacific Coast Building Officials' Conference has been officially adopted by the Modesto city council.

The code provides a uniform building standard and is flexible, according to City Engineer Frank J. Rossi, at whose request city officials adopted the measure.

The code establishes four building districts—the strictly business, the area immediately adjoining the business section, the residential district, and industrial zone.

Various fire restrictions are imposed on buildings erected in each district and, in addition, the nature of the business to be conducted is taken into consideration. The feature of the code which provides for close fire protection regulation is the most important, Rossi said.

It fits in with the city zoning ordinance, recently adopted at a municipal election, setting aside certain sections for residences and other parts of the city for residential use.

LAND PRICE HOLDS UP P. O. PROJECT AT MODESTO

William Arthur Newman, supervising federal architect for the Pacific states and Hawaii, announces that construction of the proposed federal building in Modesto must be postponed indefinitely because of the attitude of one Modesto property owner.

Newman said the government has offered a property owner \$14,000 for a 50-foot strip adjoining its Modesto lot which has been assessed at \$2000, and was refused.

"The government has gone the limit in this case," Newman said, "but will not stand for holdups." He said the "selfishness" of one property owner may delay construction years.

ENGINEERING SOCIETIES EMPLOYMENT SERVICE

Further information regarding positions listed in this column is obtainable from Newton D. Cook, Room 715, 57 Post Street, San Francisco. (Phone Sutter 1684).

R-3220-S ENGINEER, college graduate in mechanical, chemical or mining preferred. Must not be over 35 years and with at least five years' experience in designing and estimating plant equipment. Salary \$250-\$275 mo. Permanent. Location, Bay Region, and only local applicants can be considered for interview.

K-318-W-1461-C-S ENGINEER, specialist in forestry engineering, with long experience in logging operation, with knowledge of ice roads and construction of same, horse and mechanical transfer, construction of chutes, flumes and logging railroads. Should be capable of planning the felling of trees in a mountainous region, as well as the handling and transportation of the logs to the sawmills. Work will be on an area of about 1,500,000 acres. Apply by letter. Location, foreign.

K-305-W-1856-C-S METAL FURGIST, iron and steel, with thorough technical background and considerable actual experience in steel foundries. Must be familiar with the problems of steel foundries and capable of solving such problems in a consulting capacity. Must be able to convince clients and inspire confidence in advice given. Man should have good presence and be able to talk before engineering societies and write technical articles for publication. Salary open. Location, East and travelling.

R-3324-S CHIEF DRAFTSMAN, preferably not over 40, for large engineering drafting room. Will not be responsible for design but applicant should be a university graduate with wide experience. Must know how to handle men and get results through leadership. Salary depends upon ability. Apply by letter. Location, Northern California.

R-3303-S ENGINEER, not over 35, graduate in chemical or mechanical engineering, with 4-7 years' experience preferably as designer or estimator and a record indicating considerable initiative and executive ability. Oil refinery experience desirable. Salary open. Permanent opportunity for right man. Apply by letter. Location, Northern Calif.

R-3322-S ELECTRICAL ENGINEER graduate, preferably not over 35 years, for special work requiring several years' experience with telephone company. Salary \$175-\$225 mo. Permanent. Apply by letter. Location, San Francisco.

W-1028 CONSTRUCTION SUPERINTENDENT, 35-40, to take charge of the building of a fertilizer plant. This experience essential. Salary \$450 a month and expenses. Apply by letter. Loc., British Columbia.

BRICK MANUFACTURERS ISSUE PUBLICATIONS

Two recent publications issued by the Common Brick Manufacturers Association of America, Cleveland, Ohio, are of special interest to architects and builders. These are: "Contemporary Detail in Common Brick" and "Brickwork Specifications." The former, in loose-leaf form, reproduces pictorially many interesting examples of artistic construction with brick as the medium of expression.

BUILDING CHIMNEYS TO WITHSTAND WINDS

Figures on wind strong enough to threaten chimneys and smokestacks have been compiled by the Bureau of Standards in an effort to eliminate guesswork in building such structures, it is announced by the Bureau, says the U. S. Daily.

The Bureau has found that building designers are safe if they calculate a wind pressure of 20 pounds per square foot, and bases this recommendation on a wind speed of 100 miles an hour, according to the statement, which was made public by the Department of Commerce.

The statement follows in full text:

One of the major elements determining the cost of a large chimney or stack is the amount of wind pressure which the chimney is to withstand. Many specifications are drawn up in which the chimney is required to withstand a wind of 100 miles per hour, but since there are many opinions and little knowledge as to the pressures imposed by a wind of this amount, different bidders often design for different loads and therefore do not bid on structures of the same strength. In many instances it is felt that the values of wind pressure used are too high, thus increasing the cost without corresponding benefit.

For several years an investigation of the wind pressure on chimneys and other cylindrical structures has been in progress at the Bureau of Standards. Model testing in wind tunnels does not give a sufficiently satisfactory answer in this instance and it has been necessary to supplement these tests by measurements on large structures in natural winds. The investigation showed that the wind pressure is a function of the ratio of the height of the chimney to its diameter and that a wind pressure corresponding to 20 pounds per square foot of projected area at a wind speed of 100 miles per hour is a safe value to use in designing chimneys of which the exposed height does not exceed 10 times the diameter.

This investigation will be discussed at greater length in the September number of the Bureau of Standards Journal of Research.

GOOD IDEA

"In these dull times when contractors are not overburdened with work and have plenty of leisure time, it would be a good idea for them to get together and talk over their own situation," says a bulletin of the National Ass'n of Building Trades Employers. "There are many trade problems to be solved, so why not do it now, rebuild if necessary, but augment your associations with new timber and new activities that are necessary to make any organization a growing adjunct to a successful business."

STEEL ORDERS DECLINE

U. S. Steel Corporation reported unfilled tonnage on August 31 totaled 3,580,204 tons, a decrease of 411,851 tons from the total of 4,022,055 tons on July 31. This compares with unfilled tonnage of 3,968,064 on June 30, and 3,655,211 on August 31, 1929.

A. G. C. TO FORM RESIDENTIAL UNIT

Development of assured skill, integrity and responsibility in the residential field of the construction industry, with a view to stimulating activity and gaining public confidence in this body having a branch of building, is to be undertaken by the Associated General Contractors of America at the fall meeting of its executive board October 6, 7 and 8, at Rye, N. Y.

A plan for the creation of a residence contractors' section of the association's building division has been recommended by A. E. Horst, of Philadelphia, president of the organization and his cabinet and is expected to be approved and launched at the fall board meeting, which will be attended by several hundred of the largest general contractors of the country.

The proposed new section of the association is in line with the objective of President Hoover's White House Conference on Home Building and Home Ownership, to the planning committee of which Mr. Horst recently was appointed by the President.

Under the current conditions and past trends in the home building field, according to Edward J. Harding, assistant general manager of the contractors' organization, indicates that much constructive work can be done through the establishment of such a section on the same principles that have marked the progress of the Associated General Contractors in handling outstanding problems facing construction in other fields.

Although the Associated General Contractors heretofore has been primarily devoted to the problems of the larger contractors as a group, leaders of the industry now feel that some national trade association should be provided the residence builder to assist him in bettering trade practices and help him in promoting the construction of more and better homes, Mr. Harding states.

In taking this step toward providing for the affiliation of the residence contractors with the Associated General Contractors special attention will be given to see that methods of promotion, quality of workmanship, appraisal methods and conditions in the second mortgage field are placed on a sound basis, Mr. Harding said. The present depression he stated, has put emphasis to the fact that the credit system in home building is not as soundly organized as other branches of credit and this subject will be one of the important questions to be dealt with by the board.

Building and loan associations and other financial institutions, small house architects, building supply interests, manufacturers of home building materials, real estate men and other agencies directly involved in the field will be invited to meet on common ground, set up new standards of procedure and initiate soundly conceived active programs for the stimulation of home building, the creation of new confidence in the minds of the public and work out equitable solutions to the numerous ills that at present hinder the effective functioning of the industry.

The initiative taken by A. G. C. units in Minneapolis, Minn., Portland, Ore., and Spokane, Wash., where home builders divisions already have been formed, indicates that the contractors of this section of the industry are alive to the possibilities for construction work and that the basis of national affiliation and national effort will meet with their approval, Mr. Harding believes.

Petitions have been presented to the Inadera County supervisors requesting that a body be called an election to vote bonds of \$100,000 to finance the erection of a new county hospital group. The petitions contain 719 signatures.

\$29,650,000 For Oregon Power Projects

In seven separate applications filed with the Oregon state engineer the California Oregon Power Co. has asked for authority to appropriate a total of 3355 sec.-ft. of water from the North Umpqua River for the purpose of developing approximately 138,661 hp. The estimated cost of the seven projects will be \$29,650,000. According to information in the office of the state engineer the utility has already received a preliminary permit from the Federal Power Commission for right-of-way over government lands.

Partial descriptions of the contemplated projects, as given in the applications, are as follows:

Rock Creek Project—Appropriation of 800 sec.-ft.; concrete arch dam 215 ft. high and 1350 ft. long; tunnel 4300 ft.; fall 221.5 ft.; horsepower 20,136; estimated cost \$8,700,000.

Clearwater Project No. 1—Appropriation of 150 sec.-ft.; concrete slab and rock dam 20 ft. high and 350 ft. long; canal and pipe line 34,000 ft.; fall 555 ft.; horsepower 10,091; estimated cost \$1,500,000.

Clearwater Project No. 2—Appropriation of 235 sec.-ft.; pipe lines and canals 35,500 ft.; concrete arch dam 53 ft. high and 320 ft. long; fall 875 ft.; horsepower 23,366; estimated cost \$2,100,000.

Lemolo Project No. 1—Appropriation of 400 sec.-ft.; rockfill and concrete slab dam 60 ft. high and 430 ft. long; pipe lines and canals 38,600 ft.; fall 775 ft.; horsepower 35,227; estimated cost \$3,500,000.

Lemolo Project No. 2—Appropriation of 400 sec.-ft.; simple masonry dam; tunnels and pipe lines and canals 19,200 ft.; fall 750 ft.; horsepower 34,091; estimated cost \$2,100,000.

Tonketee Project—Appropriation of 600 sec.-ft.; concrete spillway dam with rockfill ends; tunnel 27,600 ft.; fall 715 ft.; horsepower 48,750; estimated cost \$6,500,000.

Boundary Project—Appropriation of 800 sec.-ft.; concrete arch dam 220 ft. high and 450 ft. long; tunnel and penstock 2600 ft.; fall 137 ft.; horsepower 17,000; estimated cost \$5,350,000.

MILLWORK INSTITUTE OF CALIFORNIA WILL INCORPORATE

As a result of action taken at the recent tri-annual conference of the Millwork Institute of California the Institute will be incorporated under the laws of the state as a non-profit organization.

L. G. Sterett, manager of the service bureau since headquarters were moved to Fresno, has been appointed secretary of the Institute. Miss Caroline Wood will be his assistant. As soon as finances permit Mr. Sterett will be given an assistant for trade promotion work.

Indebtedness of the association is rapidly being liquidated and the Institute is now in a sound financial position, according to President A. W. Bernhauser.

An effort will be made by the Institute to have either the University of Southern California or Stanford University make a survey of the industry in the state to determine the distribution of the millwork dollar.

A legislative committee to look after the interests of the industry at the coming session of the legislature will be named by the board of directors.

The question of having two instead of three meetings a year, one in the fall in the north and the other in the south in the spring, will come up at the annual meeting to be held in San Francisco next November.

Californians Lead In Forest Fire Prevention

The State of California receives more Federal funds for fire prevention under the Clarke-McNary Act than any of the other forty states participating in the appropriations made under this law.

This is not only on account of the high estimated cost of protecting private lands in California but also because the state and private owners have spent more money for fire prevention than elsewhere in the U. S.

The outstanding feature that impresses visitors to this state, says Regional Forester S. B. Show, is the general public observance of state legislation and county ordinances, and the number of clubs and civic organizations that wholeheartedly support all laws and regulations relating to the prevention and suppression of fires. Examples of such regulations found only in the national forests of California are the special requirements of the U. S. Forest Service relating to the carrying of a shovel and ax by all camping parties, the no-smoking rule in the national forests except at flag stations or at camps and places of habitation. The state and some of the counties have enacted laws prohibiting the throwing of burning matches and tobacco from moving vehicles and a state law requires campers to obtain a permit from the owner before building a camp fire on private lands outside of the national forests to supplement a similar requirement by the Forest Service in the national forests.

The underlying cause, according to Mr. Show, of this widespread sentiment is the increase in fires within the past ten years in California that are attributed largely to ignorance and carelessness on the part of persons who do not realize how inflammable the grass, brush and forest cover is during the hot, dry summer months.

Southern California, with one-half of the population of the state living on 1.4 per cent of the land area and having available 7/10 of the water supply, is foremost in regulations and laws that will help prevent fires. In that region the conservation of water supply, which comes from the brush and forest covered mountains, is of vital importance. A strong public sentiment stands behind all such laws and rules, whether Federal, State or county, and is reflected in the activities of numerous fire prevention and protection organizations and in the fines meted out by judges in fire law enforcement cases. The San Joaquin and Sacramento valleys are rapidly approaching similar conditions with respect to water in relation to their growing population, increasing acreage of irrigated lands, and the question of water supply for large municipalities, so that the public sentiment regarding forest preservation is increasing in proportion in these sections of the state.

VOCATIONAL TRAINING SCHOOL OPENED AT PITTSBURGH

Pittsburgh's new \$2,000,000 trade school began activities Sept. 1. It will be used for training students for the building and industrial trades. The school will offer vocational instruction for those who plan to continue their education in college as well as for those who expect to enter directly into industry.

The new building is six stories high and contains shops completely equipped.

1930 Revised Edition of San Francisco Building Laws now on sale at office of Daily Pacific Builder; \$1.00 per copy.

HIGH EDGES ON SIAMESE ROADS PREVENT WASHOUTS

As motorists who travel unfrequented roads have occasion to know, a newly constructed dirt road generally has a high crown in the center, sloping off toward the edges so that it will shed water.

This practice, accepted as standard in most countries, is just the reverse of the method in far-off Siam where, instead of a crown, the road is so constructed that the edges are eight and one-half inches higher than the center, according to a report submitted for the Sixth International Road Congress which will be held in Washington next month. This report was submitted by Luang Prinayogavibulya, chief of the Department of Ways, Bangkok, Siam.

Because Siam is generally flat, it was stated in the report, the highways consist mostly of embankments. Due to frequent and torrential rains, if the roads were built with crowns, the surfaces would soon be seriously damaged. To eliminate this they are constructed originally with the sides higher than the center and thus the water is retained in the roadway, seeping through the earth and helping to compact it, says Prinayogavibulya. Within a year, it has been found, a new road will be fairly compact by this method, while of the other type of road virtually nothing would remain.

The writer points out that timber being plentiful, bridges on new highways are made of wood.

PHOENIX VOTES BONDS FOR WATER IMPROVEMENTS

Bonds of \$2,364,000 have been voted by the city of Phoenix, Ariz., to finance construction in connection with the municipal water system. The program includes:

Construction of a flow line from the sand trap to reservoir, 48-inch diameter, to cost about \$1,300,000.

Construction of a flow line from the reservoir to 16th St. and Thomas Road, 48-inch diameter, to cost \$500,000.

Construction of a 42-inch pipe-line from 12th St. and McDowell Road, to 16th St. and Thomas Road, to cost \$146,000.

Construction of a 24-inch pipe-line from 16th St. and Thomas Road to 7th Ave. to cost approximately \$140,000.

Construction of belt line distribution system to cost \$138,000.

Installation of five well pumping plants at Verde River, \$25,000.

Construction of pump station at Verde River to cost \$24,000.

Bank protection at Verde, \$110,000.

Construction of a 10,000,000-gallon reservoir to cost \$92,000.

Purchase of well field, \$3000.

Water main in city, \$78,000.

NEW NEON COMPANY IS ORGANIZED

Business of western Neon tubing and sign manufacturers operating under Q. R. S.-DeVry corporation patents will be substantially increased this year through the formation of a new company which will consolidate the activities of licensees in 11 western states, T. M. Fletcher, president of Q. R. S.-DeVry corporation, recently announced in Chicago.

The new company, Q. R. S. Neon Corp., Ltd., was formed by the California Electric Sign Co., Ltd., of Los Angeles and San Francisco; "Sun" Beem Neon Corp. of Seattle, Wash.,

and Butte, Mont., and Britte Lite Signs, Inc., of Denver and its subsidiary, Britte-Lite Neon Advertisers of Amarillo, Texas.

ALAMEDA COURTHOUSE HEARING SET FOR SEPT. 22

An alternative writ of mandate has been signed by Superior Judge T. W. Harris compelling the Alameda County board of supervisors to appear before him Sept. 22 to show cause why the board has not rebuilt the Alameda county courthouse.

In appearing before Judge Harris the supervisors—Ralph Richmond, Charles W. Heyer, Walter M. Davis, Redmond C. Staats and William J. Hamilton—must also show why no provision has been made for the preservation of law books, records, papers, pleadings and documents.

The writ was signed following the filing of a petition by Richard Liebman, attorney.

Liebman declares that by reason of the age of the structure, built in 1871, and its constant use and lack of repair, it has deteriorated and rotted to such a degree that it cannot be repaired to make it safe to life, health or the records.

Successive grand juries, the petitioner declares, have condemned the courthouse as obsolete, overcrowded, unsanitary, dangerous to life and property and a fire hazard.

A recent investigation of the structure by the state industrial accident commission, finding a mong other things, that the courthouse was and is a fire hazard.

The petition charges that the supervisors, "many times notified of the unsafe condition of the building and the conditions set forth in the document," have refused to rebuild the courthouse or provide a safe place for documents.

Three successive bond issues for the erection of a new courthouse have failed. At present the board is considering the possibility of placing the question again before the voters at the November general election.

ENGINEERS AT U. OF C. NAME STUDENT HEADS

Students in engineering to head activities for the year have been named by Harry C. Stanley, of Oakland, secretary of the University of California chapter of the American Institute of Electrical Engineers. The committees will have charge of the student activities in the College of Engineering during the present year.

Included in the appointments of those who will serve on the committees are:

Tring—Robert W. Hollis, chairman, San Diego; Edward B. E. Atkinson, Berkeley; Arthur C. Jenkins, San Francisco.

Refreshments—Charles J. Miller, chairman, Oakland; Allison J. Haun, Shively; William D. Hudins, Calverico.

Initiation—Warren Andresen, Berkeley; Americo Lazzari, Henry C. Kruger, Los Angeles; Edward V. Carlson, Oakland; Charles W. Hunter, Riverside; John D. Riner, Anaheim; Louis Zable, Los Angeles; Lois R. Rockholt, Yuba City.

Banquets—George L. Powell, chairman, Willowbrook; George H. Carlson, Berkeley; Victor T. Johnson, Los Angeles.

Dues—Clifford L. Merkle, chairman, San Francisco; Robert E. Cooper, Jr., Alameda; Arthur C. Forster, I. Morgan White, Harry C. Stanley, Oakland.

ADOPT GROUP SELLING

The Clear Fir Lumber Co., the Tacoma Harbor Lumber Co., the Gange Lumber Co. and the DeLance Lumber Co., all of Tacoma, Wash., have joined in a group selling policy to market their products in California. A. C. Penberthy has been appointed exclusive distributor for the group of mills in this state. He will be assisted by R. F. Martin, formerly of Tacoma.

DRAFTSMEN WANTED BY U. S.

Positions are open under the civil service for senior topographic draftsman, \$2,000 a year; topographic draftsman, \$1,800; assistant topographic draftsman, \$1,620, and junior topographic draftsman, \$1,440. Applications must be on file with the Civil Service Commission, Washington, D. C., by Oct. 1. There will be no examination.

In order to set up a standard guide for realtors in the appraisal of typical office buildings, the Appraisal Division of the National Association of Real Estate Boards has just issued a complete appraisal of an actual office building in an hypothetical location. The model valuation, which is being sent to every member of the Appraisal Division, conforms in all particulars to the Appraisal Standards of Practice adopted by the Division. The appraisal was made by Henry A. Babcock, Chicago, chairman of the Appraisal Division, and the report is edited by Dr. Arthur J. Mertzke, director of education and research of the National Association.

The report contains all the data which the Appraisal Standards of Practice enumerate as necessary for a comprehensive and exact computation of the value of this type of building, including: income, expense and net earnings of the building; net returns allocated to the building; earnings on both the land and the building and total earnings; the estimated cost of replacement of the structure; summary and detailed accounts of rentals and vacancies; summary and detailed accounts of appraised rentals; anticipated normal annual operating expenses for the building; a record of income, expense and net earnings, and a record of operating expenses. Photographs, charts and diagrams included in the model valuation are: a view of the building, a plat of the site, a location map, two graphs, one showing future rentals from signed leases and the other presenting the relation between earnings and value, and plans of the first and second floors and a typical upstairs floor.

This model office building valuation is the second of a series of four complete appraisals, of as many types of properties, which the Appraisal Division is issuing this year. The first model appraisal to be issued was on the valuation of an apartment building, not a mammoth structure, but the type of apartment house to be found in any growing city. E. L. Somerville, Minneapolis, Minnesota, made the appraisal of the apartment house. The two remaining model appraisals, shortly to be issued, will include a valuation of a single unit dwelling and a valuation of a store property. The former is to be made by Philip Kniskern and Charles T. Uphoff, New York City. Maurice Rely, Worcester, Massachusetts, a member of the board of directors of the National Association of Real Estate Boards, will make the valuation of the store property.

Building News Section

APARTMENTS

Sub-Contracts Awarded.
APARTMENTS Cost, \$175,000
SAN FRANCISCO, NE Buena Vista Ave. and Waller St.

Six-story class C basement and sub-basement apartments (36 2- and 3-room apts. and one 10-room apartment).

Owner—Suncal Investment Co.
Architect—Albert H. Larsen, 447 Sutter St.

Contractor—Mission Concrete Co., 270 Turk St.

Rein. Steel—W. S. Wetenhall, 17th & Wisconsin Sts.

Steel Forms—Steelform Contracting Co., Monadnock Bldg.

Sub-bids are being received by architect on all portions of the work, except excavation, concrete work, rough carpentry, metal trim, lathing and plastering, which are being handled by the general contractor.

Plumbing and Heating Contract Awarded.

APARTMENTS Cost, \$35,000
SAN FRANCISCO, NE Broderick St. and Golden Gate Ave.

Three-story and basement frame and stucco apts. (12 apts.)

Owner—C. E. Lynn, 1435 Steiner St.
Plans by L. O. Berg, 675 Corbett Ave.
Plumbing and Heating—N. George Wienholz, 1450 Howard St. As prev. rep.

Brick Work—Albert Nelson, 242 Ocean Avenue.

Concrete and Excavating—D. Fazio, premises.

Carpentry Labor—W. B. Zane, premises.

Owner is taking bids on all other portions of the work.

Plans Being Prepared.
APARTMENTS Cost, \$1,225,000
LOS ANGELES, Cal. Sunset Blvd. & Alta Loma Drive.

Thirteen-story and basement reinforced concrete class A apts.

Owner—Sunset-Loma Holding Co.
Architect—Arthur I. Rouda, Lissner Bldg., Los Angeles.

Preparing Working Drawings.
APARTMENTS Cost each, \$50,000
SAN FRANCISCO. Richmond District (exact location withheld).

Three 3-story and basement frame and stucco apartments.

Owner and Builder—M. P. Storheim, 475 Euclid Ave.

Plans by Lawrence Ebbets, Call Bldg.

Sub-bids will be taken Sept. 17th.

Bids to Be Taken in One Week.
APARTMENTS Cost, \$40,000
SAN MATEO, San Mateo Co., Cal. Bayview Heights.

Two-story and basement frame and stucco apartments.

Owner—E. J. Warren, Los Angeles.

Plans by Carl Schuetz, 1125 The Highway, Redwood City.

Preparing Preliminary Plans.
ALTERATIONS Cost, \$—
SAN FRANCISCO. 499 Buena Vista Avenue.

Alter residence for apartments.

Owner—Mrs. J. A. Wilcox, 499 Buena Vista Ave.

Architect—Henry H. Gutterson, 526 Powell St.

Construction Indefinitely Postponed.
APARTMENTS Cost, \$300,000
OAKLAND, Alameda Co., Cal. Excelsior and Capelli Sts.

Eight-story Class A, B and C steel frame apartments (brick exterior, concrete and wood floors).

Owner—Leonard Thomas et al, 731 E-Tenth St., Oakland.

Plans by Leonard Thomas, 731 E-10th St., Oakland.

Plans Completed.
APARTMENTS Cost Approx. \$70,000
SAN FRANCISCO. Vallejo St. near Octavia.

Six-story and basement concrete apartments.

Owner—A. Anderson.

Architect—Clausen & Amandes, Hearst Bldg., San Francisco.

More information will be given in a few days.

Contract Awarded.
APARTMENTS Cost, \$250,000
HOLLYWOOD, Los Angeles Co., Cal. Argyle Avenue.

Eight-story Class A reinforced concrete apartments (90 rooms).

Owner—Douglas L. Edmons.

Architect—Thomas P. Barber and Paul Kingsbury, Union Insurance Bldg., Los Angeles.

Contractor—Peter Elvad, 6231 Afton Place, Los Angeles.

Sub-Bids Being Taken.
APARTMENTS Cost, \$150,000
LOS ANGELES, Cal. No. 535 S. Gramercy Place.

Eight-story reinforced concrete Class A apartments (42x122 feet).

Owner and Builder—Peter Elvad, 6231 Afton Place, Los Angeles.

Architect—Thomas P. Barber & Paul Kingsbury, Union Insurance Bldg., Los Angeles.

Preparing Plans.
APARTMENTS Cost, \$300,000
GLENDALE, Los Angeles Co., Cal. N. Brand Blvd.

Four-story and basement apartments (120 rooms) (brick, hollow tile and masonry construction).

Owner—Oscar A. Litchen, Leon Relch et al, Security Bldg., Long Beach.

Architect—Lewis W. Palmer, Central Bldg., Los Angeles.

Mgr. of Constr.—Walter Romey, Glendale.

Preparing Plans.
APARTMENTS Cost, \$300,000
GLENDALE, Los Angeles Co., Cal. N. Brand Blvd.

Four-story and basement apartments (120 rooms) (brick, hollow tile and masonry construction).

Owner—Oscar A. Litchen, Leon Relch et al, Security Bldg., Long Beach.

Architect—Lewis W. Palmer, Central Bldg., Los Angeles.

Mgr. of Constr.—Walter Romey, Glendale.

Preparing Plans.
APARTMENTS Cost, \$300,000
GLENDALE, Los Angeles Co., Cal. N. Brand Blvd.

Four-story and basement apartments (120 rooms) (brick, hollow tile and masonry construction).

Owner—Oscar A. Litchen, Leon Relch et al, Security Bldg., Long Beach.

Architect—Lewis W. Palmer, Central Bldg., Los Angeles.

Mgr. of Constr.—Walter Romey, Glendale.

Preparing Plans.
APARTMENTS Cost, \$300,000
GLENDALE, Los Angeles Co., Cal. N. Brand Blvd.

Four-story and basement apartments (120 rooms) (brick, hollow tile and masonry construction).

Owner—Oscar A. Litchen, Leon Relch et al, Security Bldg., Long Beach.

Architect—Lewis W. Palmer, Central Bldg., Los Angeles.

Mgr. of Constr.—Walter Romey, Glendale.

Preparing Plans.
APARTMENTS Cost, \$300,000
GLENDALE, Los Angeles Co., Cal. N. Brand Blvd.

Four-story and basement apartments (120 rooms) (brick, hollow tile and masonry construction).

Owner—Oscar A. Litchen, Leon Relch et al, Security Bldg., Long Beach.

Architect—Lewis W. Palmer, Central Bldg., Los Angeles.

Sub-Figures Being Taken.
APARTMENTS Cost, \$75,000
EL CERRITO, Contra Costa Co., Cal.

Three-story frame and stucco apartments with tile roof.

Owner—B. Schapira, Richmond.

Architect—Raymond De Sanno, 2854 Melvia St., Oakland.

Contractor—Edward W. Larmer, 90 Fairview Ave., Piedmont.

Plans Completed.
APARTMENTS Cost, \$150,000
LOS ANGELES, Cal. No. 535 S. Gramercy Place.

Eight-story reinforced concrete Class A apartments (42x122 feet).

Owner and Builder—Peter Elvad, 3428 Amesbury Road, Los Angeles.

Architect—Paul Kingsbury, Union Insurance Bldg., Los Angeles.

Plans Being Floured.
APARTMENTS Cost Approx. \$70,000
SAN FRANCISCO. Vallejo St. near Octavia St.

Six-story and basement concrete apartments.

Owner—A. Anderson.

Architect—Clausen & Amandes, Hearst Bldg., San Francisco.

Sub-Bids Being Taken By Owner.
APARTMENTS Cost, \$50,000
OAKLAND, Alameda Co., Cal. 35th St. near Telegraph Ave.

Three-story frame and stucco apartments with concrete basement.

Owner and Builder—Nelson Bros., 13th Ave. and E-36th St., Oakland

Architect—Chester Treichel, American Bank Bldg., Oakland.

Segregated Bids Being Taken.
APARTMENTS Cost, \$200,000
BERKELEY, Alameda Co., Cal. Sacramento St. and University Ave.

Three-story Class C brick apartments (56 2, 3 and 4-room apts.)

Owner—Davis-Pearce Co., Grant and Weber Sts., Stockton.

Architect and Manager of Construction—Davis-Pearce Co., Grant and Weber Sts., Stockton

Lathing, Plastering and Cast Stone Contract Awarded.

APARTMENTS Cost, \$35,000
SAN FRANCISCO. NE Broderick St. and Golden Gate Ave.

Three-story and basement frame and stucco apartments (12 apts.)

Owner—C. E. Lynn, 1435 Steiner St., San Francisco.

Plans by L. O. Berg, 675 Corbett Ave., San Francisco.

Lathing, Plastering and Cast Stone—D. F. Sullivan, 121 Henry St., San Francisco.

Contract Awarded.
ALTERATIONS Cost, \$—
OAKLAND, Alameda Co., Cal. Madison and Lake Sts.

Alterations and additions to one-story frame apartments (add porch, etc.)

Owner—San Jose Bldg. & Loan Assn., 16th St. and San Pablo Ave., Oakland.

Architect—W. E. Schlirmer, 700 21st St., Oakland.

Contractor—George Swannstrom, 1723 Webster St., Oakland.

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BONDS

ALTURAS, Modoc Co., Cal.—Until October 6 bids will be received by county supervisors for the purchase of \$7000 (additional) bonds of the Alturas Grammar School District; proceeds of sale to finance school improvements.

LAKEPORT, Lake Co., Cal.—Until September 26 bids will be received by county supervisors for the purchase of the \$35,000 bond issue of the Upper Lake Union School District; proceeds of the sale to finance erection of a new school, plans for which are being completed by Architect William Herbert, Santa Rosa.

CHURCHES

Preparing Working Drawings.
CHURCH Cost, \$250,000
SAN FRANCISCO, Funston Ave. and Judah St. (120x245 ft.).
Class A reinforced concrete church (2000 seating capacity).
Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.
Architect—Shea and Shea, 454 Montgomery St., San Francisco.
Plans will be ready for bids in two or three months.

Segregated Bids Being Taken.
CHURCH Cost, \$75,000
LOS ANGELES, Cal. SE Griffith Pk. Blvd. and Lucille Ave.
Three- and 4-story class A reinforced concrete church (180x130x 130-ft.).
Owner—Bethany Presbyterian Church (O. P. Bell, pastor).
Architect—Harry C. Hartley, Subway Terminal Bldg., Los Angeles.

Preliminary Plans Being Prepared.
CHURCH Cost, \$25,000
ROSEVILLE, Placer Co., Cal.
New church.
Owner—Methodist Episcopal Church. Harry W. O'Kane, Pastor, 109 Washington St., Roseville.
Architect—Chas. Dean, California State Life Bldg., Sacramento.
Whether building will go ahead or not depends upon the success of the financial campaign which commences Sept. 22nd.

FACTORIES AND WAREHOUSES

Sub-Buildings Being Taken.
BUILDING Cost, \$15,000
SAN FRANCISCO. SE Fifth and Folsom Sts.
One-story and mezzanine floor reinforced concrete industrial bldg.
Owner—Louis Lurie, 315 Montgomery Street.
Architect—S. Heiman, 57 Post Street, and O'Brien Bros. & W. D. Peugh, 315 Montgomery St.
Contractor—Louis J. Cohn, 1 De Haro Street.

Contract Awarded.
MILL Cost, \$100,000
BRODERICK, Yolo Co., Cal.
Rebuild concrete mill and construction of steel frame and corrugated iron warehouse.
Owner—California Rice Growers Assn. E. L. Adams, President, Chico.
Engineer—C. H. Snyder, 251 Kearny St., San Francisco.
Contractor—McGillivray Constr. Co., Folsom Blvd. and 65th St., Sacramento.
Work has been started on rebuilding of mill.

SANGER, Fresno Co., Cal.—Warehouse of the Prescott Brick and Lumber Co., just east of this city, was destroyed by fire Sept. 16 with a loss of \$10,000, partially covered by insurance. The structure covered an area of 150 by 300-ft.

Contract Awarded.
ALTERATIONS Cost, \$16,000
SAN FRANCISCO. SW Front St. and Jackson St.
Alterations and additions to warehouse.
Owner—Mrs. C. H. Baker, 2048 Market Street.
Engineer—L. S. Rosener, 233 Sansome Street.
Contractor—J. W. Coburn, 2048 Market St.

Concrete Contract Awarded.
PLANT Cost (1st unit) \$500,000
PITTSBURG, Contra Costa Co., Cal.
Twenty-acre site available.
Refractories plant (group of 4 or 5 steel frame, mill type buildings).
Owner—Stockton Fire Brick Co., Russ Bldg., San Francisco.
Engineer—K. Theill, 550 Market St., San Francisco.
Concrete—Larsen and Larsen, Russ Bldg., San Francisco.
Bids will be taken shortly for steel sash. Corrugated iron contract will be awarded within a few days.

Plans Being Completed.
BUILDING Cost, \$10,000
SAN FRANCISCO. N Army St. bet. Mississippi and Missouri Sts.
One-story steel frame industrial bldg.
Owner—Soule Steel Co., 916 Rialto Building.
Engineer—J. A. Cole, 2178 Oregon St., Berkeley.

Part of the work has been done by owner on day's work basis. Bids will be called in about 30 days for other portions of work.

Structural Steel Contract Awarded.
WAREHOUSE Cost, \$17,000
OAKLAND, Alameda Co., Cal. 1236 57th Avenue.
One-story concrete warehouse.
Owner—Contractors' Machinery Exchange, 1135 57th Ave., Oakland.
Plans by Builder.
Contractor—Austin Co. of California, 720 Ray Bldg., Oakland.
Structural Steel—Moore Drydock Co., Balfour Bldg., San Francisco.
Sub-bids are wanted on painting and roofing.

MARYSVILLE, Yuba Co., Calif.—Hemstreet and Bell, Marysville, highway contractors, will erect a \$10,000 paving plant on the Southern Pacific right-of-way at Marysville.

MODESTO, Stanislaus Co., Calif.—Farmers' Exchange building destroyed by fire September 11. The loss is estimated at \$150,000. Yards and stocks of the American Lumber Company also suffered in the blaze.

Low Bidder.
STABLES Cost, price, \$43,457
WOODSIDE, San Mateo Co., Cal.
Stables (frame construction).
Owner—John Rosekrans.
Architect—Bakewell and Welhe, 251 Kearny St., San Francisco.
Low Bidder—Chas. Stockholm, Russ Bldg., San Francisco.

Contract Awarded.
SOAP PLANT Cost, \$—
LONG BEACH, Los Angeles Co., Cal.
Reinforced concrete soap plant (super structure).
Owner—Proctor & Gamble.
Architect—None.
Contractor—Clinton Const. Co., Spring Arcade Bldg., Los Angeles.

There will be six main buildings and one small building, ranging in height from two to six stories. One of the

larger buildings will be a reinforced concrete structure and the others will be steel frame and concrete construction.

Painting Contract Awarded.
SHED Cont. price, \$114,968
SAN FRANCISCO. Pier No. 1.
One-story shed (reinforced concrete construction; steel columns, wood roof).

Owner—State Board of Harbor Commissioners.
Engineer—Frank White, Ferry Bldg.
Contractor—Barrett & Hilp, 918 Harrison Street.
Painting—Aristo Painting Co., 473 Bryant St.

Painting Contract Awarded.
LABORATORY Cost, \$—
BAY POINT, Contra Costa Co., Cal.
Steel laboratory building and switch house.
Owner—Shell Oil Co., Shell Oil Bldg., San Francisco.
Plans by Eng. Dept. of Owner, N. W. Thompson, chief engineer.
Contractor—Barrett & Hilp, 918 Harrison Street.
Painting—Aristo Painting Co., 473 Bryant St., San Francisco.

Bids Opened.
SHOP, ETC. Cost, \$—
IONE, Amador Co., Cal. Preston State School of Industry.
One-story balcony brick shop building with steel roof construction and slate roof; floor area 3,000 sq. ft., and two-story and part basement brick and frame superintendent's cottage (10 rooms).
Owner—State of California.
Architect—State Department of Public Works, Division of Architecture, Public Works Building, Sacramento.

Following is a complete list of bids:
General Work
Lindgren and Swinerton, Inc., California State Life Bldg., Sacramento.....\$36,499
Guth & Fox, Sacramento.....37,166
Campbell Const. Co., Sacto.....37,734
C. J. Hopkinson, Sacramento.....38,740
J. W. Cobby & Son, S. F.....39,885
George Swanstrom, Oakland.....40,596
Yoho & Darger, Sacramento.....40,830
David Nordstrom, Oakland.....41,622
Electrical Work
Collins Electric Co., 708 E Market St., Stockton.....\$1,931
Luppen & Hawley, Sacramento.....1,967
Apex Electric Co., S. F.....2,162
Reliable Elevator Works, Sacto.....2,235
Porter Electric Co., S. F.....2,550
Scott Plumbing and Elec. Co., Sacramento.....2,793
Eddy Electric Co., Stockton.....2,945
Plumbing, Heating & Ventilating
L. H. Dallman, 517 J St., Sacramento.....\$ 9,935
Luppen & Hawley, Sacramento.....10,255
Scott Co., San Francisco.....10,287
Scott Plumbing & Electric Co., Sacramento.....10,443
Geo. A. Schuster, Oakland.....10,557
W. H. Robinson, Sacramento.....11,000
Carl T. Doell, Oakland.....11,223
Mechanical Work Complete
Latourrette-Fical Co., 907 Front St., Sacramento.....\$11,950
Luppen & Hawley, Sacramento.....12,137
Bids taken under advertisement.

OAKLAND, Cal.—Turner Co., 329 Tehama St., San Francisco, at \$6300 awarded contract by City of Oakland Port Commission, Oakland Bank Bldg. for sprinkler system for the shed for Market Street Pier.

Bids Rejected.
PRINTING SHOP Cost, \$—
NEWMAN, Stanislaus Co., Cal.
One-story brick printing shop.
Owner—Newman Index Company.
Architect—Hardman & Russ, Berkeley Bank Bldg., Berkeley.
Plans are being revised and will be refigured by local contractors.

Bids Opened.
STATION Cost, \$—
UKIAH, Mendocino Co., Cal. Three and one-half miles north of Ukiah. Highway maintenance station, comprising superintendent's cottage; truck shed, office and store house, loading platform, gasoline and oil house, septic tank, single wood shed, station sign and yard trellis. Owner—State of California (Highway Commission).
 Architect—State Department of Architecture, State Office Bldg., Sacramento.

Following is a complete list of bids:
 Louis, Halvorsen, 128 Dutton Ave., Santa Rosa.....\$13,166
 McCarthy & Johannis, S. F.....13,243
 J. W. Cobby & Son, S. F.....13,453
 Chas. W. Gibson, Ukiah.....13,564
 Chas. Swanstell, Ukiah.....14,554
 Louis Halvorsen.....15,166
 Crawford & Baker, Ukiah.....15,731
 Spivock & Spivock, S. F.....18,400
 Bids held under advisement.

Bids Opened.
HANGAR EXTENSION Cost, \$20,000
SAN FRANCISCO. Mills Field Municipal Airport.

Extension to hangars under Contract No. 19.
 Owner—City and County of San Francisco.
 Engineer—Bureau of Engineering, 3rd floor, City Hall.

Vogt & Davidson, 185 Stevenson St., at \$7,827 submitted lowest bid. Clinton-Stephenson Co. second low at \$18,962. Complete list of bids will be published tomorrow.

GARAGES AND SERVICE STATIONS

Contract Awarded.
SERVICE STATION Cost, \$6000
BERKELEY, Alameda Co., Cal. 1500 University Ave.
 Class C service station.
 Owner—Richfield Oil Co., Richfield Oil Bldg., Oakland.
 Plans by Dyer Const. Co., Ray Bldg., Oakland.
 Contractor—S. O. McDonald & Son, 2312 Denkin St., Berkeley.

SANTA BARBARA, Cal.—Standard Oil Company will erect a service station at the northwest corner of State St. and Cabrillo Blvd. to cost \$30,000.

GOVERNMENT WORK AND SUPPLIES

WASHINGTON, D. C.—Bids are being received by Bureau of Supplies & Accounts, Navy Department, Washington, D. C., to furnish and deliver miscellaneous supplies and equipment as noted in the following schedules, further information being available from the Navy Department Office, 100 Harrison St., San Francisco:

Bids Open Sept. 30

Various deliveries, echo-sounding equipments and spares; sch. 4097.

Mare Island, 4900 lbs. copper tubing; sch. 1110.

Puget Sound, salinity indicators, accessories and spare parts; sch. 4106.

Mare Island and Puget Sound, excelsior; sch. 4134.

Western yards, water gage glasses; sch. 4135.

San Diego, 110 file cleaners; sch.

PORTLAND, Ore.—Until October 16 3 P. M., bids will be received by U. S. Engineer Office, 321 Customhouse, Portland, for repair and extension of jetty at entrance to Tillamook Bay and for furnishing stone in connection with the project. Specifications obtainable from above.

SAN FRANCISCO.—Until September 24, 11 A. M., under Specification No. 6320, bids will be received by Pub-

lic Works Office, Twelfth Naval District, 100 Harrison St., for painting temporary garage building at Staff Headquarters, 100 Harrison St. The work includes painting of all exterior metal roofing, siding, ventilators, gutters and downspouts, exterior and interior surfaces of steel columns, steel sash, exterior and interior surfaces of all wooden doors and woodwork.

Specification No. 6320 may be obtained on application to the Commandant, Twelfth Naval District, 100 Harrison St., on deposit of \$5, returnable.

SAN DIEGO, Cal.—M. H. Golden, 404 California Bank Bldg., San Diego, awarded contract by the Bureau of Yards and Docks, at \$101,000 for constructing an extension to a reinforced concrete pier at the Naval Operating Base (Air Station), San Diego. Merritt Chapman & Scott Corp. was next bidder at \$103,000. Other bids were: Wurster Const. Co., \$108,678; Bodenhamer Const. Co., \$115,775; Robert E. McKee, \$117,000; Charles and F. W. Steffen, \$126,500; M. H. Slocum, \$134,500; Pan-Pacific Piling & Const. Co., \$155,862.

SAN DIEGO, Cal.—As previously reported, R. E. Hazard Contracting Co., 2528 Kettner Blvd., San Diego, at \$33,781, submitted low bid to the Bureau of Yards and Docks, Navy Department, Washington, D. C., to furnish and install a 55,000-bbl. capacity steel tank and piping at Naval Operating Base (Fuel Depot) San Diego, including earth and concrete work, steel, iron and electrical work, under Specification No. 6155. Complete list of bids follows:

Pittsburgh-Des Moines Steel Co., item 1, \$37,370; item 2, add \$100.

R. E. Hazard Contracting Co., (1) \$33,781; (2) \$251; (3x) \$33,290; (4x) \$281.

Western Pipe & Steel Co., (1) \$42,000.

R. H. Jones Co. (1) \$35,355; (2) \$35,255.

Pettifer-Hunt Co., P. O. Box 146, East San Diego, (1) \$35,000; (2) add \$250.

Minneapolis-Moline Power Implement Co. (1) \$33,545; (2) deduct \$150. Robt. E. McKee (1) \$38,300; (2) add \$300.

Chicago Bridge & Iron Co., (1) \$36,970; (3x) \$35,970.

Anton Johnson Co., (1) \$39,330; (2) add \$300; (3x) \$39,730; (4x) add \$300.

Newport Contracting & Engineering Co. (1) \$49,700; (2) \$100.

SACRAMENTO, Cal.—Until September 25, 3 P. M., under Order No. 2247, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver 10r Vista, Solano county, 1,004 lin. ft. 14-inch internal diameter, machine-made high pressure concrete irrigation pipe. The sections of pipe shall be either 24- or 30-in. long; bell and spigot pipe. It shall have a wall thickness of at least 1½-in. and an average weight of at least 70 lbs. per lin. ft. The concrete mixture shall be 3½ aggregate to 1 cement. The aggregate shall consist of 70% fine crushed rock with dust, and 30% best grade clean washed river sand. The sections may be hand made but machine made pipe is preferred. Each section shall be solid and homogeneous throughout and shall stand a hydrostatic pressure of 15 lbs. per square inch.

PEARL HARBOR, T. H.—Until 11 A. M., Nov. 5, bids will be received by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for alterations and additions to existing wood frame building and installation of refrigerating equipment furnished by the government at the Naval Operating Base (Air Station), Pearl Harbor, T. H. Spec. No. 6005.

SAN FRANCISCO.—Until October 6, 11 A. M., bids will be received by Constructing Quartermaster, Fort Mason, to construct a 50,000-gallon steel water tank on a 55 ft. trestle at Fort Miller. Present steel water tank and trestle to be taken down by contractor for the new work. Plans and further information obtainable from above.

SAN FRANCISCO.—Until September 22, 10 A. M., under Schedule No. 923-31-73, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver one portable buffing and polishing machine, electric motor driven, with flexible shaft set in a tilting frame, with adjustable tool tray, all mounted on a swivel tripod pedestal base, set on double casters. Motor to be of the ventilated type, ball bearing, and rated not less than ¾-hp., 110-volt, direct current, with speed range between 1200 R.P.M. to 3450 R. P. M. Machine to be also equipped with the necessary rubber covered cable, rheostat switch and all necessary connections for operation.

PALO ALTO, Santa Clara Co., Cal. Until October 10, 11 A. M., bids will be received by Supervising Superintendent of Construction, U. S. Veterans' Hospital, Palo Alto, for porch additions to Buildings Nos. 101, 102, 103, 111 and 113 at the Veterans' Hospital, Palo Alto. This work will include excavating and backfilling, re-seeding lawns, mass and reinforced concrete, reinforcing steel, cast iron vents, W. I. railings, woven wire grilles, built-up roofing, sheet metal work, cement plaster and stucco, carpentry and mill work, painting, glazing, hardware, electrical work (no plumbing or heating) in accordance with Drawing No. W57. Bond of 50% of the contract price required of successful bidder. Plans obtainable from above office.

PHOENIX, Ariz.—Until October 1, 2 P. M., bids will be received by Jno. B. Brown, superintendent, U. S. Indian School, to furnish and deliver 1,000 sacks hardwall plaster in paper sacks, containing 100-lbs. to the sack. Bids are wanted for both f.o.b. bidder's shipping point and f.o.b. Phoenix, Arizona.

SAN FRANCISCO.—All bids were rejected at Constructing Quartermaster, Fort Mason, to install new control panel board and repair motors in Laundry Building No. 24 at the Letterman General Hospital.

Following bids were received:
 (1) automatic control board motor;
 (2) installation of same.

American Laundry Machinery Co. (1) \$2380.

Atlas Electric & Engineering Co. (1).....(2) \$562.

Smith Electric Co. (1).....(2) \$616.

Brayer Electric Co. (1).....(2) \$650.

Kuchel & Sievers (1).....(2) \$688.

New bids will be called for at a later date.

SAN DIEGO, Cal.—Until 11 A. M., Oct. 2, bids will be received by the Public Works Office, 11th Naval District, San Diego, for constructing a quay wall for Marine Railway, Naval Operating Base (Destroyer Base), San Diego. The work includes reinforced concrete precast sheet piles, reinforced concrete cap, untreated timber bearing piles, timber platform and dead-men and miscellaneous steel and iron work. Plans, etc., may be obtained from the Public Works Office, DeWitt C. Webb, Captain (CEC), U. S. N., San Diego, on deposit of \$10. Spec. No. (11).

Bids to 1- Taken in Two Weeks.
GATES, ETC. \$17,000 Available
SAN FRANCISCO. Presidio (National
Cemetery).
Granite and bronze gates, urns, etc.,
at entrance to National Cemetery.
Owner—United States Government.
Architect—Constructing Quartermas-
ter, Fort Mason, San Francisco.

HAWTHORNE, Nevada—As pre-
viously reported, P. L. Burr, San Fran-
cisco, submitted low bid to Bureau
of Yards and Docks, Navy Depart-
ment, to construct irrigation system
at Naval Ammunition Plant at Haw-
thorne, Nev., under Specification 6156.
Following is a complete list of the
bids received:

Item 1, work complete; 2, do, alt.
A; 3, deduct for omission of work in
connection with area E; 4, add for
use of 6-in. pipe.

P. L. Burr, 320 Market St., San
Francisco, item 1, \$61,854; 3A, \$12,563;
4, \$2,793.

Robert E. McKee, Central Bldg.,
Los Angeles, item 1, \$61,900; 2, \$60,-
875; 3A, \$13,700; 3B, \$13,700; 4, \$2,800.

Thos. Haverty Co., 316 E. 8th St.,
Los Angeles, item 1, \$63,900; 3, \$12,-
000; 4, \$2,850.

Pacific Pipe & Supply Co., 1002
Santa Fe Ave., Los Angeles, item 1,
\$67,453; 3A, \$14,214; 4, \$2,562.

Newport Contracting & Engineering
Co., Lee Hall, Va., item 1, \$69,291 and
\$67,443; 3A, \$13,000; 3B, \$12,500; 4,
\$3,000.

Brooks of California, Inc., 142 S.
La Brea Ave., Los Angeles, item 2,
\$53,482.30; 4, \$2,055.62.

S. & W. Sprinkler Co., Los An-
geles, item 2, \$71,157; 3, \$15,312; 4,
\$2,673.

W. O. Morrison, 409 Cooper Bldg.,
Denver, Colo., item 1, \$72,390; 3, \$16,-
897; 4, \$2,950.

A. Frederick Anderson, 1093 Long
Ridge road, Oakland, Calif., item 1,
\$94,554; 3A, \$18,591; 4, \$3,400.

Schuler & MacDonald, Inc., 723
Webster St., Oakland, Calif., item 1,
\$95,000; 2, \$105,000; 3, \$17,500; 4, \$2,500.

HALLS AND SOCIETY BUILDINGS

SANTA MARIA, Santa Barbara Co.,
Cal.—County Supervisors have under
consideration several sites for me-
morial building to be erected in Santa
Maria. \$40,000 has been appropriated.

EUREKA, Humboldt Co., Cal.—Un-
til October 14, bids will be received
by Fred M. Kay, county clerk, to
furnish and install furniture in Veter-
ans' Memorial Building at Arcata.
Specifications are on file in the office
of the county clerk at Eureka.

Plans To Be Prepared.

CLUB HOUSE Cost, \$10,000
OAKLAND, Alameda Co., Cal. Foot
of 19th Avenue.

Two-story club house (two club rooms
and kitchen, upper floor).

Owner—Oakland Yacht Club.

Architect—Not Selected.

Lower floor to include storage for 40
boats with a 16-ft. length limit of
ices, lounge, locker and shower room.
The yacht club officers are: Com-
mander Edward E. Niehaus, Vice-
Commander T. H. Hancock and Real
Commander B. A. Olven.

SANTA CRUZ, Santa Cruz Co.,
Cal.—The Santa Cruz county super-
visors have adopted an ordinance
prepared by Commander Fred R.
Hudson of the Watsonville American
Legion Post and Commander Sam
Leask of the Santa Cruz Post, pro-
viding for the laying aside of two

and a half mills on each \$100 assessed
taxes for the purpose of raising \$120,-
000 over a period of three years to
finance the construction of two veter-
ans' memorial buildings, one in
Santa Cruz and another in Watson-
ville. Final disposition of the ordi-
nance will come before voters at the
November election.

Plans Being Figured.

CLUB Cost, \$2,000,000
SAN FRANCISCO. Post and Mason
Streets.

Twenty-six-story class A club.

Owner—Olympic Club, premises.

Architect—John B. Kewell, Arthur
Brown, Jr., and John Bauer, as-
sociated, 251 Kearny St.

Mechanical Engineers—Leland & Ha-
ley, 58 Sutter St.

Bids To Be Advertised Shortly.

MEMORIAL BLDG. Cost, \$60,000
LIVERMORE, Alameda Co., Cal. SE
Fifth and L Sts.

One-story reinforced concrete Veter-
ans' Memorial Bldg. (Spanish
type).

Owner—County of Alameda.

Architect—H. H. Meyers, Kohl Bldg.,
San Francisco.

Auditorium will seat approx. 600.

Plans Being Completed.

RECREATION BLDG. Cost, approx. \$50,000
SAN JOSE, Santa Clara Co., Calif.
W Santa Clara St.

One and one-half-story steel frame
and brick recreation building.

Owner—C. H. Kamm.

Architect—W. H. Weeks, Hunter-Du-
lin Building, San Francisco; 1736
Franklin St., Oakland, and Bank
of Italy Bldg., San Jose.

Lessee—O. J. Forman, San Jose.

Bids will be taken in about 2 weeks.

SACRAMENTO, Cal.—Masonic
Temple Building Association will cam-
paign for \$145,000 to finance improve-
ment and refinancing of Masonic
Temple property at 12th and J Sts.
Chas. G. Johns is general chairman
of the committee.

Preliminary Plans Being Revised.

COMMUNITY CENTER Cost, \$650,000
SAN FRANCISCO. California Street
and Presidio Avenue.

Reinforced concrete community center
Owner—Jewish Community Center.

Sidney M. Ehrman, Chairman, 68
Post St., San Francisco.

Architects—Hyman & Appleton, 68
Post St., and Arthur Brown Jr.,
251 Kearny St., San Francisco.

Building will contain gymnasium,
swimming pool, handball courts, au-
ditorium, theatre, club rooms, lecture
hall, game rooms, lounge rooms and
kitchen.

HOSPITALS

Plans Being Figured—Bids Close Oct.
14, 10 A. M.

REMODEL Cost, \$35,000
OAKLAND, Alameda Co., Cal. High-
land Hospital Grounds.

Remodel entrance to hospital.

Owner—County of Alameda.

Architect—H. H. Meyers, Kohl Bldg.,
San Francisco.

Alterations are to provide a new en-
trance for receiving and discharging
patients. Under the new arrangement
the first floor of the "A" building will
be used as a receiving ward and a
corridor will connect the present re-
ceiving ward with the new one.

MODESTO, Stanislaus Co., Calif.—
County supervisors contemplate pur-
chase of "artificial lung" or respirator
for county hospital; estimated cost,
\$2,000.

Contract Awarded.

HOME Cost, approx. \$90,000
OAKLAND, Alameda Co., Calif. East
29th Street.

Two-story class C concrete Home for
Aged.

Owner—Salem Lutheran Benevolent
Assn., Oakland.

Architect—Henry H. Guttererson, 526

Powell St., San Francisco.

Contractor—F. J. Westlund, 354 Ho-
bart St., Oakland.

Plans To Be Prepared.

HOSPITAL Cost, \$50,000
PITTSBURG, Contra Costa Co., Cal.
Thirty-room fireproof hospital.

Owner—John J. Loyaano and Mrs.
Lillian Barton, c/o Pittsburg Hos-
pital, Fourth and East Sts.,
Pittsburg.

Architect—To be selected.

Preliminary Plans Prepared—County
To Vote Bonds To Finance.

SURGERY, ETC. Cost, \$250,000
FRESNO, Fresno Co., Cal.

Three-story surgery unit and two-
story children's ward and con-
tagious disease wards (for county
hospital).

Owner—County of Fresno, D. M. Barn-
well, County Clerk.

Architect—Swartz & Ryland, Rowell
Bldg., Fresno.

Completing Plans.

SERVICE BLDG. Cost, \$100,000
SAN JOSE, Santa Clara Co., Cal.

Two-story reinforced concrete service
building.

Owner—County of Santa Clara.

Architect—Binder & Curtis, 35 W.
San Carlos St., San Jose.

Plans will be ready for bids in three
or four weeks.

STOCKTON, San Joaquin Co., Cal.
—O. H. Chain, Bank of America
Bldg., Stockton, desires sub-bids in
connection with the construction of
the San Joaquin County Hospital.
Plans prepared by Architect Frederick
H. Meyer, 525 Market St., San Fran-
cisco. Davys-Parke Co., Grant and
Weber Sts., Stockton, consulting ar-
chitects. Bids are to be opened Sept.
29, at 11 A. M.

LOS ANGELES, Cal.—Following are
the low bids received by County of
Los Angeles for the completion of the
Acute Unit of the Los Angeles Gen-
eral Hospital:

Linooleum—Van Fleet Freear, Los An-
geles, \$168,783.

Wire Fences—Los Angeles Fencing

Co., Los Angeles, \$3,675.

Cement Finish—Weymouth Crowell

Co., Los Angeles, \$447,450.

Carpentry and Mill Work—J. W. Jean,

Pasadena, \$121,929.

High Pressure Refrigeration—York

Ice Machinery, Los Angeles, \$41,-
438.

Plastering—MacGruer Co., Los Ange-
les, \$331,164.

Tile—T. V. Collins, Los Angeles, \$310,-
285.

Terrazzo—Hilgartner Marble Co., Los

Angeles, \$522,368.

Lawn Sprinklers—Brooks of California,

Los Angeles, \$17,400.

Paving—Fred. P. Greenfield Co., Los

Angeles, \$6,000.

Painting—D. Zelinsky & Son, Los An-
geles, \$130,850.

Lathing—Western Lathing Co., San

Francisco, \$398,220.

Low Pressure Refrigeration—Holbrook

Merrill & Stetson, Los Angeles,

\$75,222.

Bids held under advisement.

WEIMAR, Placer Co., Calif.—Until
October 14, 10 A. M., bids will be re-
ceived by W. F. Russell, secretary,
Weimar Joint Sanatorium, Court-
house, Sacramento, to erect one-story
frame cottage for children at Weimar.

Harry J. Devine, architect, 1400 California State Life Bldg., Sacramento. Certified check 10% payable to Supervisors of the Weimar Joint Sanatorium required with bid. Plans obtainable from architect on deposit of \$10, returnable.

HOTELS

Preparing Working Drawings.
HOTEL Cost, \$250,000
SONORA, Tuolumne Co., Cal.
Three-story reinforced concrete tourist hotel.
Owner—Wilson Investment Company.
Architect—Edwards and Schary, 605 Market St., San Francisco.
Bids will be taken in about 30 days.

Preparing Plans.
HOTEL Cost, \$—
SANTA BARBARA, Cal.
Four-story fireproof hotel.
Owner—Arlington Holding Co.
Architect—Edwards & Plunkett, 20 E Figueroa St., Santa Barbara.

Sub-Contracts Awarded.
BARRACKS Cost, \$46,500
MONTEREY, Monterey Co., Calif.
Two two- and three-story reinforced concrete barracks (for hotel help).
Owner—Hotel Del Monte.
Architect—Wm. Raiguel, Del Monte.
Contractor—M. J. Murphy, Carmel.
Plumbing and Heating—Anderson-Dougherty, 225 Main St., Salinas.
Plastering—J. E. Eckert, Carmel.
Steel Sash—Gensire Steel Co., 461 Market St., San Francisco.
Steel—Concrete Engineering Co., 1280 Indiana St., San Francisco.
Ornamental Iron—Patterson & Koster, 230 13th St., San Francisco.
Hardware—Baker-Hamilton & Pacific Co., 700 7th St., San Francisco.
Electric Work—Chas. A. Langlais Co., 472 Tehama St., San Francisco.

LIVERMORE, Alameda Co., Cal.—Livermore Chamber of Commerce proposes to organize company to finance erection of a modern hotel building. R. P. Emerson of the Cecil M. Clary Co., of San Jose, reported to have financed several large buildings in the state, is assisting in working out a means of financing the construction.

Plans Complete.
ALTERATIONS Cost, \$6000
SAN FRANCISCO. 2191 Mission St.
Alterations and additions to hotel.
Owner—Dagmar Hotel, 2191 Mission Street.

Plans by L. O. Berg, 675 Corbett Ave.

Plans Being Prepared.
HOTEL Cost, \$—
REDWOOD CITY, San Mateo Co., Cal.
James St. opposite Southern Pacific depot.

Modern hotel.
Owner—Sol Morris, Redwood City.
Architect—Name Withheld.
Agent—Mark McCann, 26 Montgomery St., San Francisco.
More definite information will be given shortly.

Being Done By Day's Work.
ALTERATIONS Cost, \$100,000
SONORA, Tuolumne Co., Cal.
Alterations and additions to present three-story brick hotel (new lobby, coffee shop, banquet rooms, elevators, etc.)
Owner—Erick and Chas. Seterstrom, Sonora.
Architect and Mgrs. of Const.—Davis-Pearce Co., Grant and Weber Sts., Stockton.

POWER PLANTS

UKIAH, Mendocino Co., Cal.—Until September 24, 8 P. M., bids will be received by F. C. Handy, city clerk, to

furnish f.o.b. cars Ukiah, electrical equipment, as follows:

One indoor type, single phase induction voltage regulator primary volts 2400, sec. volts 180/166 7 1/2/15% boost and lower.

Regulator to be complete with contact making volt meter, line drop compensator, motor control switch, limit switch and 220 volt 3-phase operating motor. Instruments must be wired and assembled on panelboard to regulator. Regulator must be complete for operating on 2400 volt circuit, except not to include current and potential transformers.

Delivery is to be made before Dec. 1. Further information obtainable from city clerk.

SAN FRANCISCO.—A second Wire and Cable Co., New York N. Y., awarded contract by Pacific Gas and Electric Co. to furnish and deliver 168 miles of one-inch hollow-core copper cable; delivery to be made before Feb. 1, 1931. The cable will be used in construction of a transmission line to connect up the company's new \$40,000,000 hydro-electric development on the Mokelumne River with the distributing substation at Newark, Alameda county.

This line will be 110 miles long, but having two circuits, will require 220 miles of wire. Fifty-four miles in the mountain regions will be of steel-core aluminum cable. The balance will be of copper. The line will operate at 220,000 volts. The transmission system will cost \$4,260,000 and \$2,000,000 more is being spent installing new equipment at the Newark plant to handle the additional power.

SAN FRANCISCO.—Until October 17, 11 A. M., bids will be received by the Regents of the University of California, Berkeley, to install distribution system for electricity, air and steam on the San Francisco Campus of the University of California. Plans obtainable at Cashier's Window, California Hall, Berkeley, on deposit of \$50, returnable.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

Plans Being Completed.
AUDITORIUM Cost, \$1,050,000
PASADENA, Los Angeles Co., Cal.
Green St. and Garfield Ave.
Three-story Class A concrete and brick municipal auditorium (200x300 feet).
Owner—City of Pasadena.
Architect—Edwin Bergstrom, Los Angeles, and Bennett & Haskell, First Trust Bldg., Pasadena.

Plans Being Figured.
JAIL Cost, \$—
LOS ANGELES, Cal. Avenue 19.
Five-story and basement Class A reinforced concrete jail (200 by 45 feet) (accommodate 625).
Owner—City of Los Angeles.
Plans by L. A. City Construction Department.

Basement will be used for storage purposes; composition roofing, hollow tile partitions, steel cell partitions, concrete floors, steel sash metal trim, fire doors, clothes chutes, four electric elevators, dumbwaiters, hot air heating system, electric refrigeration, kitchen and barber shop equipment.

Plans Being Prepared—Contract Awarded.
BUILDING Cost approx. \$10,000
MARTINEZ, Contra Costa Co., Calif.
Estadillo and Escobar Sts.
One-story brick building (50x50-ft.)
Owner—R. E. clays, Martinez.
Plans by Mr. Snelgrove.

Contractor—Wallace Snelgrove, Martinez.

Foundations will be laid so another story may be added at a later date.

COLUSA, Colusa Co., Calif.—Colusa County Grand Jury, in annual report to the Board of Supervisors, recommends the painting of the county courthouse and jail building. F. W. Schutz of Arbuckle, Is foreman of the jury.

YREKA, Siskiyou Co., Cal.—Until October 6, 10 A. M., bids will be received by W. J. Nelson, county clerk, to install in basement of Hall of Records a full automatic oil burner of adequate size or capacity to supply the heating plant of the county buildings connected therewith; for 27 plus oil; firebox to be rebricked; clock for automatic time switch; Type T. 8R 1 pressure Stat 1 Room Thermostat, 1 stack control. Separate price on low-water cut-out. Further information obtainable from clerk at Yreka.

Preliminary Plans Prepared—To Vote Bonds To Finance.
COURTHOUSE Cost, \$500,000
FRESNO, Fresno Co., Cal.
Five-story fireproof courthouse annex
Owner—County of Fresno, D. M. Barnwell, County Clerk.
Architect—W. D. Coates Jr., Rowell Bldg., Fresno.

VENTURA, Calif.—Grant L. Miner, Jr., Bank of Palo Alto, Palo Alto, desires sub-bids in connection with the construction of a class A steel and concrete jail, 118x42-ft. and courthouse annex 118x62-ft., each to be three stories in height, to be erected in Ventura for the County of Ventura. Harold Burkett, El Jardin Patio, Ventura, architect. Cost, \$275,000.

Commissioned To Prepare Plans.
REMODELING Cost, \$10,000
SAN CARLOS, San Mateo Co., Cal.
Remodel City Hall.
Owner—City of San Carlos.
Architect—E. L. Norberg, 530 Market St., San Francisco.

The work will include the installation of a fireproof vault for the city assessor and tax collector; an auditorium, 33 by 35-ft., seating 300 persons; heating and ventilating will also be included in the changes.

RESIDENCES

Contract Awarded.
RESIDENCE Cost, \$100,000
SANTA BARBARA, Santa Barbara Co., Cal. Hope Ranch Park.
Two-story and basement brick veneer residence (18 rooms) (guest house, etc.)
Owner—John Stewart, Chicago, Ill.
Architect—Roland E. Conte, Architects Bldg., Los Angeles.
Contractor—Alexander MacKellar, 112 E. Sola St., Santa Barbara.

Plans Being Figured—Bids Close Sept. 22.
BUNGALOW COURT Cost, \$8000
PLEASANTON, Alameda Co., Cal.
One-story frame and stucco bungalow court.
Owner—W. F. Davis, Pleasanton.
Engineers—Crooks & Hill, 1448 Webster St., Oakland.

Sub-Figures Being Taken By Owner
RESIDENCE Cost, \$12,000
SAN FRANCISCO, San Pablo Ave. and Portola Drive.
One-story frame and stucco residence (7 rooms)
Owner—Z. Wilnitz, 87 Parnassus Ave.
Architect—Bertz, Winter and Maury, Shreve Bldg.

Plans Being Prepared.
RESIDENCES Cost, \$7000 each
SAN FRANCISCO. St. Mary's Park.
Two one-story and basement frame
and stucco residences (5 rooms
each).
Owner and Builder—A. R. Johnson,
3301 Mission St., San Francisco.
Plans by D. E. Jaekle, Call Bldg., San
Francisco.

Sub-bids will be taken Sept. 22.
Will have covered tile interior, hard-
wood trim, gas heating system.

Plans Being Prepared.
BUNGALOWS Cost, \$7000 each
SAN FRANCISCO. Vicente St. near
Sixteenth Avenue.
Two two-story and basement frame
and stucco bungalows (5 rooms
each).
Owner and Builder—Standard Bldg.
Co., 218 Castenada St., San
Francisco.

Plans by D. E. Jaekle, Call Bldg., San
Francisco.
Sub-bids will be taken Sept. 22.

Contract Awarded.
RESIDENCE Cost, \$15,000
BERKELEY, Alameda Co., Cal. Eu-
clid Avenue.
Two-story frame and stucco residence
Owner—F. Foster.
Architect—E. L. Snyder, 2101 Shattuck
Ave., Berkeley.
Contractor—Beckett & Wight, 722
Scenic Ave., Berkeley.

To Be Done By Day's Work By Owner
RESIDENCE Cost, \$10,000
PIEDMONT, Alameda Co., Calif. 18
Dormidera Avenue.
One and one-half story frame and
stucco residence (7 rooms and gar-
age).
Owner and Builder—P. E. Woodburn,
624 Prospect Ave., Piedmont.
Architect—None.

Preparing Preliminary Plans.
ALTERATIONS Cost, \$—
HILLSBOROUGH, San Mateo Co.,
Cal. 1005 Jackling Drive.
Alterations and additions to residence.
Owner—John E. Manders, premises.
Architect—Henry H. Gutterson, 526
Powell St., San Francisco.

Preparing Preliminary Plans.
RESIDENCE Cost, \$—
ROSS, Marin Co., Cal.
Two-story and basement frame and
stucco residence (7 rooms & 3 baths)
Owner and Builder—Frank H. Allen,
222 Main St., San Anselmo.
Architect—Henry H. Gutterson, 526
Powell St., San Francisco.

Sub-Bids Being Taken.
RESIDENCE Cost, \$7000
SAN FRANCISCO. Seville St. (Crock-
er Tract).
One-story and basement frame and
stucco residence (5 rooms).
Owner—J. Dall (Crocker Amazon
Realty Co.), 912 Geneva Ave.,
San Francisco.
Plans by D. E. Jaekle, Call Bldg., San
Francisco.

Preparing Working Drawings.
ALTERATIONS Cost, approx. \$7000
BURLINGAME, San Mateo Co., Cal.
Alterations to residence.
Owner—Morgan Gunst, 906 Burlin-
game Ave., Burlingame.
Architect—Henry H. Gutterson, 526
Powell St., San Francisco.

To Be Done By Day's Work By Owner
RESIDENCE Cost, \$10,000
LOS ALTOS, Santa Clara Co., Cal.
One and two-story frame and stucco
residence.
Owner—Franz Bloch, 510 Battery St.
Architect—E. E. Young, 2002 Cali-
fornia St., San Francisco.
Agent—R. F. Cassidy, 1419 15th St.,
San Francisco.

Contract Awarded.
RESIDENCE Cost, \$12,000
SACRAMENTO, Sacramento Co., Cal.
1318 44th St.
Two-story frame and stucco residence
(7 rooms).
Owner—A. J. Henderson, 2507 K St.,
Sacramento.
Architect—None.
Contractor—Fred Engling, % owner.

Plans Being Revised.
RESIDENCE Cost, \$20,000
SAN FRANCISCO. Miraloma Drive.
Two-story and basement frame and
stucco residence.
Owner—E. B. Ward, Tenth and How-
ard Streets.
Architect—Clarence Smale, Los Ange-
les.
Whether or not new bids will be
called for at this time is indefinite.

Being Done By Day's Work.
RESIDENCE Cost, \$25,000
LOS GATOS, Santa Clara Co., Cal.
Two-story frame and stucco residence
Owner—N. T. Bradford, president
Western Well Drilling Co., 522 W
Santa Clara St., San Jose.
Plans by George Kocher, Commercial
Bldg., San Jose.
Mgr. of Construction—George Kerber,
201 Commercial Bldg., San Jose.

Plans Being Completed.
RESIDENCE Cost, \$16,000
SAN MATEO, San Mateo Co., Calif.
San Mateo Park.
Two-story and basement frame and
stucco residence (11 rooms).
Owner—A. W. Stickney, 1629 Howard
St., Burlingame.
Architect—Harold Stoner, 220 Third
Ave., San Mateo.
Bids will be taken in three or four
days.

Plans Being Prepared—Contract
Awarded.
RESIDENCE Cost, \$9500
MILBRAE HIGHLANDS, San Mateo
Co., Cal.
One-story and basement frame and
stucco residence (6 rooms).
Owner—Name Withheld.
Plans by D. E. Jaekle, Call Bldg.
Contractor—Mr. Leslie, Milbrae High-
lands.

Construction Indefinitely Postponed.
RESIDENCE Cost, \$9000
SANTA CRUZ, Santa Cruz Co., Cal.
One and one-half-story frame and
stucco residence (Spanish type).
Owner—L. W. Miller, Santa Cruz.
Architect—L. D. Esty, Alta Bldg.,
Santa Cruz.

Grading Bids Wanted.
RESIDENCES Cost, \$—
SAN FRANCISCO. 16th Ave. and Vi-
cente St.
Group of residences.
Owner and Builder—Standard Build-
ing Co., 218 Castenada St.
Plans by Owner.
2000 yards of grading is involved.
Bids must be in within one week.

Owner Taking Bids.
RESIDENCE Cost, \$8000
PIEDMONT, Alameda Co., Cal. Ports-
mouth Road.
One-story and basement frame and
stucco residence.
Owner & Builder—E. Jervis, 1586 Vis-
ta St., Oakland.
Architect—Ray Keefer, 3281 Lake-
shore Ave., Oakland.

Plans Being Prepared.
RESIDENCE Cost, \$7000
SAN FRANCISCO. Seville St. (Crock-
er Tract).
One-story and basement frame and
stucco residence (5 rooms).
Owner—J. Dall (Crocker Amazon
Realty Co.), 912 Geneva St.
Plans by D. E. Jaekle, Call Bldg.

Plans Being Prepared.
RESIDENCE Cost, \$—
LOS ANGELES, Cal.
Two-story and basement frame and
stucco Spanish type residence (8
rooms).
Owner—E. W. Cadwallader.
Architect—Harold Stoner, 220 Third
Ave., San Mateo.
Plans will be ready for bids in two
weeks.

Plans Being Prepared.
RESIDENCE Cost, \$11,000
HILLSBOROUGH OAKS, San Mateo
Co., Cal.
Two-story and basement frame and
stucco residence (8 rooms).
Owner—Thomas Davis.
Architect—Harold Stoner, 220 Third
Ave., San Mateo.
Bids will be taken in one week.

Sub-Figures Being Taken.
RESIDENCE Cost, \$8000
BERKELEY, Alameda Co., Cal. 601
Euclid Ave.
Two-story and basement frame and
stucco residence (ten rooms, two
baths).
Architect—Not Given.
Plans by J. M. Walker.
Contractor—J. M. Walker, 1709 Grove
St., Berkeley.
Sub-bids are wanted on plumbing,
electrical work, brick, plastering and
sheet metal.

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Contract Awarded.
RESIDENCE Cost, \$5700
LIVERMORE, Alameda Co., Cal.
 One-story and basement frame and stucco residence.
 Owner—John Valperga, 30 South Livermore Ave., Livermore.
 Contractor—S. Bothwell and Son, 748 Palm Ave., Livermore.

Painting and Hardwood Floor Bids Wanted.
RESIDENCE Cost, \$30,000
OAKLAND, Alameda Co., Cal. Claremont Pines.
 Two-story brick veneer residence (12 rooms).
 Owner and Builder—J. M. Walker, 1709 Grove St., Berkeley.
 Plans by Owner.
 As previously reported, slate roofing awarded to M. H. Wisely, 2911 Adeline St., Berkeley; plastering to Hoffman & Moore.

Sub-Bids Wanted.
RESIDENCE Cost, \$7500
BERKELEY, Alameda Co., Cal. 2300 Corona Court.
 Two-story frame and stucco residence (6 rooms).
 Owner—T. B. Heller, 1617 Visalia Ave., Berkeley.
 Plans by Contractor.
 Contractor—J. M. Walker, 1709 Grove St., Berkeley.
 Sub-bids are wanted on plumbing, electric, sheet metal, plastering and brick work.

Bids Opened.
RESIDENCE Cost, \$15,000
SAN JOSE, Santa Clara Co., Cal.
 Two-story and basement frame and stucco residence.
 Owner—M. Postlewaith, 44 S-15th St., San Jose.
 Architect—Binder & Curtis, 35 W-San Carlos St., San Jose.

Following is a complete list of bids received:
 Chas Thomas, 127 Clayton St., San Jose \$13,980
 N. J. Neilsen, San Jose 14,124
 W. M. Caldwell, San Jose 14,948
 George Honore, San Jose 14,994
 James Perkins, San Jose 14,500
 G. M. Latta, San Jose 15,122
 The Minton Co., Mt. View 15,226
 B. J. Dymet 15,590
 Wm. Short, San Jose 15,615
 Megna & Newell, San Jose 15,761
 Jack Thorp, San Jose 15,781
 Thermotite Constr. Co., S. J. 15,996
 Frank Edmans, San Jose 16,222
 Bids held under advisement.

Preparing Working Drawings.
RESIDENCE Cost, \$16,000
BERKELEY, Alameda Co., Cal. Claremont Pines.
 Two-story frame and stucco residence (9 rooms).
 Owner—J. M. Olsen.
 Architect—W. E. Schirmer, 700 21st St., Oakland.

Plans Being Figured.
RESIDENCE Cost, \$20,000
HILLSBOROUGH, San Mateo Co.
 Two-story and basement frame and stucco residence.
 Owner—M. F. Steindler.
 Architect—Ed Musson Sharpe, 525 Market St., San Francisco.
 Contractor Oscar L. Cavanaugh, 432 Occidental Ave., San Mateo, is figuring the plans.

To Be Done By Day's Work.
DWELLINGS Total Cost, \$75,000
SACRAMENTO, Sacramento Co., Cal. Land Drive Terrace.
 Ten one-story frame and stucco dwellings.
 Owner and Builder—Frank P. Williams, Sacramento.
 Private Plans.

Contract Awarded.
RESIDENCE Cost, \$15,340
BERKELEY, Alameda Co., Cal. Ball and White Tract
 Two-story frame and stucco residence
 Owner—W. J. Hotchkiss, 2985 Claremont Ave., Berkeley.
 Architect—Roland Stringham, 43 Alamo St., Berkeley.
 Contractor—Emil Person, 829 San Luis Road, Berkeley.

Owner Taking Bids.
RESIDENCE Cost, \$16,000
SAN MATEO, San Mateo Co., Cal. San Mateo Park.
 Two-story and basement frame and stucco residence (11 rooms).
 Owner—A. W. Stickney, 1629 Howard St., Burlingame.
 Architect — Harold Stoner, 220 Third Ave., San Mateo.
 (3058) 1st report Sept. 12, 1930 14
Owner Taking Bids.
RESIDENCE Cost, \$4000
MARTINEZ, Contra Costa Co., Cal.
 One-story frame and stucco residence (5 rooms).
 Owner—Mrs. Mattie Lawry, Martinez.
 Architect—Ernest Flores, 410 Fairmont Ave., Berkeley.

Plans Being Figured.
RESIDENCE Cost, \$12,000
BERKELEY, Alameda Co., Cal. Arch Street.
 Two-story frame and stucco residence
 Owner—J. A. Bried, 5840 Chabot Rd., Oakland.
 Architect—Raymond De Sanno, 2854 Milvia St., Berkeley.

Plans Being Figured.
RESIDENCE Cost, \$50,000
LOS GATOS, Santa Clara Co., Cal.
 Bet. Los Gatos and Saratoga.
 Two-story frame and stucco residence with tile roof (10 rooms).
 Owner—W. E. Blauer, 1634 The Alameda, San Jose.
 Architect — Clarence Tantau, Shreve Bldg., San Francisco.

SCHOOLS

Low Bidder
GYMNASIUM Cont. Price \$7964
VALLEJO, Soleno Co., Cal.
 Completion of gymnasium at Senior High School in Fleming Ave.
 Owner—Vallejo High School District.
 Emr L. Cave, Secretary, Board of Education.
 Architect—W. A. Jones, km. 14, City-County Bldg., Vallejo.
 Low Bidder—James Bitcon, 623 Louisiana St., Vallejo.
 Complete list of bids will be published within a few days.
 Project involves installation of showers, laboratories, etc., in gymnasium.

PRESTON, Sonoma Co., Cal.—Following bids received by State of California for construction of general domestic water supply system at the Preston School of Industry, at Jone:
 Guth & Fox, 1516 27th St., Sacramento \$ 8,376
 A. Frederick Anderson, Oakland 9,119
 Lindgren & Swinerton, Inc., Sacramento 9,399
 Campbell Constr. Co., Sacto. 9,448
 Yoho & Danger, Sacramento. 9,510
 J. W. Cobby & Son, S. F. 10,138
 George French Jr., Sacramento 19,888
 David Nordstrom, Oakland 11,980
 Bids held under advisement.

Preparing Working Drawings.
MEMORIAL BLDG. Cost, \$250,000
BERKELEY, Alameda Co., Cal. Campus of University of Calif.
 Two-story Class A concrete Eschleman Memorial Bldg. (student publishing building).
 Owner—Regents of the University of California, Berkeley.
 Architect—G. W. Kelham, 315 Montgomery St., San Francisco.
 Bids will be taken about Nov. 1st.

PRESTON, Sonoma Co., Cal.—Guth & Fox, 1516 27th St., Sacramento, at \$8376 awarded contract by State of California for construction of general water supply system at the Preston School of Industry, at Jone.

Contract Awarded.
SCHOOL Cont. price, \$19,962
WESTLEY, Stanislaus Co., Cal.
 One - story class C brick or concrete elementary school (4 classrooms; Spanish type).
 Owner—Grayson School District.
 Architect—Davis-Pearse Co., Grant & Weber Sts., Stockton.
 Contractor—M. Varozza, Modesto.

Working Drawings Being Prepared.
SCHOOL Cost, \$70,000
CALISTOGA, Napa Co., Cal.
 One-story Class C brick school (3 classrooms, assembly room and shop).
 Owner — California Grammar School District.
 Architect — Davis-Pearce Co., Inc., Builders' Bldg., Stockton.
 The roof, oil burning system, etc.
 Bids will be called for in about thirty days.

Preparing Preliminary Plans.
SCHOOL Cost, \$100,000
ALHAMBRA, Los Angeles Co., Cal.
 One- and two-story reinforced concrete school (3 classrooms, library, cafeteria, etc.)
 Owner—Alhambra Board of Education
 Architect—R. C. Farrell, 11 S Second St., Alhambra.

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Preparing Sketches.
CONVENT Cost approx. \$70,000
 SAN FRANCISCO. Ashbury Street
 near Waller St.
 Four-story concrete convent and 2-story addition to present school.
 Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St.
 Architect—H. A. Minton, 525 Market Street.
 Rev. John Butler is the pastor.

Plans Being Completed.
TOWERS Cost, \$—
 PALO ALTO, Santa Clara Co., Calif.
 Stanford University, Palm Drive and El Camino Real.
 Two stone towers, 30 ft. in height.
 Owner—Stanford University.
 Architect—John Bakewell and Arthur Brown, Jr., associated, 251 Kearny St., San Francisco.
 George Wagner, 181 South Park, San Francisco, will probably be the contractor.

MARTINEZ, Contra Costa Co., al.
 —Until September 25, 7 P. M., bids will be received by R. L. Boyer, clerk, Alhambra Union High School District, to furnish and install furniture, special fixtures and equipment in new Junior High School, Gymnasium and Shop Building. Segregated bids are wanted for:

- (1) Window shades;
- (2) Linoleum and textile;
- (3) Program clock system;
- (4) Intercommunicating telephone system;
- (5) Special fixture work;
- (6) Electric light fixtures, including border lights, dimmers and flood lights;
- (7) Opera chairs for auditorium, balcony and oral English room;
- (8) Stage equipment for auditorium and oral English room and stage.

Certified check 5% payable to district required with bid. Specifications obtainable from W. H. Weeks, architect, 111 Sutter St., San Francisco, and on file in office of the clerk at Martinez.

RICHMOND, Contra Costa Co., Cal.
 —Board of Education has voted to install curtain in the Longfellow Junior High School auditorium. W. T. Helms is city superintendent of schools.

RICHMOND, Contra Costa Co., Cal.
 —Board of Education, W. T. Helms, superintendent of schools, plans erection of an outside luncheon room for students at the high school; estimated cost \$2500.

WOODLAND, Yolo Co., Cal.—Until September 25, 8 P. M., bids will be received by Katherine E. Falt, secretary, Woodland Grammar School District, for heating and ventilating of Primary School. Certified check 5% required with bid. Contractors are to visit structure and submit own plans and specifications.

Commissioned To Prepare Plans.
SCHOOL Cost, \$20,000
 SAN JOSE, Santa Clara Co., Calif.
 Eight miles south of San Jose.
 One-story frame and steeple school (3 classrooms).

Owner—Rucker School District.
 Architect—W. H. Weeks, 111 Sutter St., San Francisco; 1736 Franklin St., Oakland, and Bank of Italy Bldg., San Jose.

SANTA CRUZ, Santa Cruz Co., Cal.—Board of Education has named a committee to investigate the cost of oil burners to be used in place of gas burners in all city schools.

Contracts Awarded.
SCHOOL Cost, \$389,895
 LOS ANGELES, Calif. Griffith Park Blvd. bet. Monon and St. George.
 Brick school buildings.
 Owner—Los Angeles Board of Education.

Architect—George M. Lindsey and E. P. Eiden, Union Insurance Bldg., Los Angeles.

Contractor—H. Mayson, Long Beach.
Plumbing—Cooney and Winterbottom, \$26,140.

Electric Work—American Electric Co., \$9367.

Heating—Cooney and Winterbottom, \$19,528.

Will be administration and classroom building, two stories, 60x248 ft.; science building, two stories, 60x140 ft.; cafeteria and domestic science building, two stories, 90x30 ft.; shop building, one story, 70x160 ft. and athletic building, one story, 80x140 ft.

Sub-Contracts Awarded.
GYMNASIUM Cost, \$52,870
 BERKELEY, Alameda, Co., Cal. Addison and Curtis Sts.

Burbank Junior High School Gymnasium (structural steel, brick and hollow tile construction).

Owner—Berkeley School District.
 Architect—Hardman & Russ, Berkeley Bank Bldg., Berkeley.

Contractor—Chas. D. Vezey & Son, 3220 Sacramento St., Oakland.

Excavating—Ariss-Knapp Co., 961 41st St., Oakland.

Rein. Steel—McGrath Steel So., 354 Hobart St., Oakland.

Structural Steel—California Steel Co., 22 & Harrison Sts., Oakland.

Steel Sash—U. S. Metal Products Co., 354 Hobart St., Oakland.

Sheet Metal—Superior Metal Products Co., 4400 Market St., Oakland.

Glass—Cobbledick-Kibbe Co., 301 Washington St., Oakland.

Roofing—H. C. Brown Roofing Co., 3267 San Pablo Ave., Oakland.

Plastering—Vincent Fatta, 5555 Claremont Ave., Berkeley.

Tile—Rigney Tile Co., 3012 Harrison St., Oakland.

Travertine—Oakland Concrete & Terrazzo Co., 2227 Market St., Oakland.

Terra Cotta—Gladding McBean, 660 Market St., San Francisco.

Heating—Frank Edwards, 354 Hobart St., Oakland.

Plumbing—Carl T. Doell, 467 21st St., Oakland.

Wiring—Spencer Electric Co., 354 Hobart St., Oakland.

Plans Being Figured—Bids Close Sept. 23, 7:30 P. M.

ADDITIONS, ETC. Cost, \$—
 MONTEREY, Monterey Co., Cal.
 Additions, alterations, and renovations to present shop bldg.; construct 8 tennis courts; construct girls' athletic field; grade, drain and change contours and grades adjacent thereto at high school.

Owner—Monterey Union High School District.

Architect—Swartz & Ryland, 206 Spaulding Bldg., Monterey.

Certified check 10% required with bid. Plans obtainable from the architects on deposit of \$25, returnable.

SACRAMENTO, Cal.—Until Sept. 29 5 P. M., bids will be received by Chas. C. Hughes, secretary, Board of Education, Administration Bldg., 21st and L Sts., to furnish and install vocational training equipment for school department.

Certified check 10% required with bid. Specifications obtainable from Business Manager of the Board of Education at the above address.

Plans Being Figured—Bids Close Oct. 6, 11 A. M.

BUILDINGS Cost, \$685,000
 BERKELEY, Alameda Co., Cal. University of California Campus.
 Group of class B buildings (College of Engineering).

Owner—University of California.

Architect—G. W. Kelham, 315 Montgomery St., San Francisco.

Engineer—H. J. Brunner, Sharon Bldg., San Francisco.

Group consists of 4-story class B main building (40,000 sq. ft.); 2-story Heshe Hall (8000 sq. ft.); and 1-2- and 2-story laboratory (30,000 sq. ft.)

Plans are obtainable from the Cashier's Window, California Hall, Berkeley, on deposit of \$500, returnable.

See call for bids under official proposal section in this issue.

Contract Awarded.
HEATING PLANT Cost, \$9650
 ROSEVILLE, Placer Co., Cal.

Install low-pressure steam heating plant for high school.

Owner—Roseville Union High School District, E. C. Bedell, clerk.

Engineer—Albert A. Coddington, 222 Kearny St., San Francisco.

Contractor—Rudolph Viach, El Cerrito, Calif.

Low Bidders.
SCHOOL Cost, \$16,000
 CAMINO, El Dorado Co., Cal.

One-story English type stone and brick school (2 classrooms and auditorium).

Owner—Camino School Department.

Architect—W. E. Coffman, Forum Bldg., Sacramento, and 3529 Emerson St., Oakland.

Following are the three lowest bidders:

Guth & Fox, 1516 27th St., Sacramento.....\$16,636

Yoho & Doger, Sacramento.....17,000

James B. Morton, Placerville.....17,129

Complete list of the bids will be published shortly.

Preparing Working Drawings.
SCHOOL Cost, \$650,000
 SANTA BARBARA, Cal.

Reinforced concrete school buildings.

Owner—Santa Barbara Union High School District.

Architect—W. H. Weeks, 111 Sutter St., San Francisco; 1736 Franklin St., Oakland, and Bank of Italy Bldg., San Jose.

Bids for the construction of the buildings will be called for early in October. There will be an administration and classroom building, gymnasium and a shop building; reinforced concrete construction with terra cotta tile roofing.

Complete Bid Listing.
SCHOOL Cost, \$16,000
 CAMINO, El Dorado Co., Cal.

One-story English type stone and brick school (2 classrooms and auditorium).

Owner—Camino School Department.

Architect—W. E. Coffman, Forum Bldg., Sacramento, and 3529 Emerson St., Oakland.

Following is a complete list of bids received:

Guth & Fox, 1516 27th St., Sacramento.....\$16,636

Yoho & Daugher, Sacramento.....17,000

J. B. Morton, Placerville.....17,129

Chas. Unger, Sacramento.....18,464

M. Lamb, Placerville.....18,939

Azevedo & Sarmiento, Sacto.....19,000

M. R. Peterson, Sacramento.....19,135

C. Hopkinson, Sacramento.....19,535

George Kopp, Sacramento.....21,292

Mr. Adams, Angels Camp.....21,600

Bids held under advisement.

SAN FRANCISCO—American Studios, Inc., 1050 Folsom St., at \$4,334 awarded contract by Board of Super-

visors to furnish and install stage fittings and draperies for Roosevelt Jr. High School.

HOPETON, Merced Co., Cal.—Until September 30, 2:30 P. M., bids will be received by Mrs. A. B. Martin, Clerk, Hopeton School District, to erect toilet building, construct septic tank, water system and other improvements on the school grounds. W. E. Bedesen, engineer, Shafter Bldg., Merced. Certified check 10% payable to clerk required with bid. Plans obtainable from the engineer at Merced.

Working Drawings Being Prepared.
SCHOOL Cost Approx. \$400,000
OAKLAND, Alameda Co., Cal. 45th Ave. and Foothill Blvd. (Fremont High School Site).
Steel frame and concrete high school with tile roof.

Owner—City of Oakland School Dist.
Architect—Charles W. McCall 1404 Franklin St., Oakland.

Preparing Plans.
SCHOOL Cost, \$210,000
LOWELL, Arizona.
Class B reinforced concrete and masonry grammar school (auditorium to seat 1000).
Owner—Lowell Grammar School Dist.
Architect—Lescher & Mahoney, First National Bank of Arizona Bldg., Phoenix.
Bids will be taken about Nov. 1.

Complete Bid Listing.
GYMNASIUM Cont. Price, \$7964
VALLEJO, Solano Co., Cal.
Completion of gymnasium at Senior High School in Fleming Ave.
Owner—Vallejo High School District, Elmer L. Cave, Secretary, Board of Education.
Architect—W. A. Jones, Rm. 14, City-County Bldg., Vallejo.
Low Bidder—James Bitcon, 628 Louisiana St., Vallejo.
Following is a complete list of bids received:
James Bitcon, Vallejo.....\$ 7,964
J. E. Fuller, Vallejo.....\$ 2,293
S. J. Weeks, Vallejo.....\$ 4,449
Frank Lamb, Vallejo.....\$ 4,463
George Barencchi, Vallejo.....\$ 9,477
George Swanstrom, Oakland.....10,510
Bids held under advisement.

BANKS, STORES & OFFICES

SAN FRANCISCO—Pacific Telephone & Telegraph Co. has filed application with the Board of Supervisors seeking the rezoning of property at 19th Ave. near Kirkham St. on which the company proposes to erect a telephone exchange, to cost in excess of \$250,000. Members of the City Planning Commission look favorably upon the application.

Plans Complete.
STORE & OFFICES Cost, \$500,000
LOS ANGELES, Cal. 3750-98 Wilshire Blvd.

Twelve-story class A reinforced concrete store and offices (199x300x182-ft.)

Owner—Serrano Corporation.
Architect—Morgan, Walls & Clements, Van Nuys Bldg., Los Angeles.

Construction Indefinitely Postponed.
BUILDING Cost, \$—
SAN MATEO, San Mateo Co., Cal. South B Street.
Modern building (height and type of construction not decided).

Owner—Wm. S. Leadley, 207 2nd St., San Mateo.
Architect—Not Selected.

Plans Being Figured.
STORE Cost, \$20,000
BERKELEY, Alameda Co., Cal. Shattuck Ave. and Alston Way.
Two-story brick and steel store.
Owner—Name Withheld.
Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.

Plans Being Completed.
STONE BLDG. Cost, \$50,000
SAN JOSE, Santa Clara Co., Cal. 6th and St. John Sts.
One and two-story frame and cast stone veneer physicians' building (cover area of 7500 sq. ft.)

Owner—Group of Local Physicians, including Drs. A. J. Bawchi, T. L. Blanchard, C. S. Sullivan, et al.
Architect—Herman Krause, P. O. Box 783, San Jose.
Will be known as Physicians' Court.
Bids will be taken in about two weeks.

Plans Being Completed.
STORE Cost, \$12,500
SAN JOSE, Santa Clara Co., Cal.
Two-story brick and concrete store and offices.
Owner—Wm. Geoffrey, 296 S 2d St., San Jose.
Architect—Herman Krause, P. O. Box 783, San Jose.
Bids will be taken in about two weeks.

Bids To Be Taken In One Week.
ALTERATIONS Cost, \$100,000
SAN FRANCISCO, St. Francis Hotel (Powell, Geary and Post Sts.)
Alter mural room for restaurant and sweet shop.
Owner—St. Francis Hotel.
Architect—W. B. Faville, Crocker 1st National Bank Bldg.
Lessee—Pig'n Whistle Corp.

Plans Being Completed.
ANNEX Cost, \$2,000,000
SAN FRANCISCO, Bush Street near Montgomery St. (50x137-ft.)
Twenty-two-story class A reinforced concrete annex to building.
Owner—Mills Estate, Inc. (Curtis D. O'Sullivan, president), Mills Bldg.
Architect—Louis P. Hobart, Crocker Building.
Bids will be taken in about 10 days.

Plans Being Figured.
NEWSPAPER BLDG. Cost, \$170,000
LOS ANGELES, Cal. No. 1545 Wilcox Avenue.

Class A reinforced concrete newspaper building (115x127 feet).
Owner—Ira C. Copley and California Newspaper Assn., 510 S. Spring St., Los Angeles.

Architect—Francis D. Rutherford, Mills Fraser Bldg., Santa Monica.

Contract Awarded.
REPAIRS Cost, \$25,000
OAKLAND, Alameda Co., Cal. West Broadway N 21st St.
Fire repairs to building.
Owner—Hamburger & Kern, 110 Sutter St., San Francisco.
Architect—None.
Contractor—F. A. Muller, 805 Syndicate Bldg., Oakland.

Segregated Bids Being Taken.
ALTERATIONS Cost, \$10,000
GILROY, Santa Clara Co., Cal.
Alterations and additions to bank.
Owner—American Trust Co., 464 California St., San Francisco.
Architect—A. H. Herman, 464 California St., San Francisco.

Plans Being Prepared—Contract Awarded.
STORES Cost, \$50,000
SAN MATEO, San Mateo Co., Cal.
One-story reinforced concrete store building (10 stores).

Owner—Wisnom Estate.
Architect—Edwards & Schary, 605 Market St., San Francisco.
Contractor—S. A. Wisnom, 140 South Ellsworth St., San Mateo.

Preparing Working Drawings.
BANK Cost approx. \$20,000
CASTROVILLE, Monterey Co., Cal.
One-story brick bank.
Owner—Monterey County Trust and Savings Bank, Salinas.
Architect—H. H. Winler Co., 580 Market St., San Francisco.
Bids will be taken in about 2 weeks.

Contract Awarded.
STORE Cost, \$16,000
CASTROVILLE, Monterey Co., Cal.
Two-story and basement frame and brick store and apartments.
Owner—B. Tierl.
Architect—A. W. Storey, Pajaro Valley Bank Bldg., Watsonville.
Contractor—Fred McCrary, Monterey.

Contract Awarded.
STORE Cost, \$11,000
RICHMOND, Contra Costa Co., Cal.
San Pablo Ave. & Sacramento St.
One and two-story brick store.
Owner—Joseph Fara, Richmond
Plans by James T. Narbett, 406 31st St., Richmond.
Contractor—C. F. Kayser, 1912 San Pablo Ave., Richmond.

THEATRES

SAN FRANCISCO—American Studios, Inc., 1050 Folsom St. at 4,384 awarded contract by Board of Supervisors to furnish and install stage fittings and draperies for Roosevelt Jr. High School.

Contract To Be Awarded.
THEATRE Cost, \$200,000
MERCED, Merced Co., Cal. Seventh and J Sts. (150x150 ft.)
Two-story class C steel frame and reinforced concrete theatre, stores and office building (theatre to seat 1700).

Owner—Golden State Theatres, Inc., 988 Market St., San Francisco.
Architect—Reid Bros., 105 Montgomery St., San Francisco.
Contractor—G. B. Pasqueletti, 2330 Larkin St., San Francisco.
Upon Mr. E. H. Emmick's return from the East the contract in all probability will be awarded to Mr. Pasqueletti.

Preparing Plans.
THEATRE Cost, \$100,000
SOUTH GATE, Los Angeles Co., Cal.
Tweedy Blvd.
Reinforced concrete theatre (75x125 feet).

Owner—A. W. Swanson.
Architect—George Burnett and Evans Jones, 7508 Long Beach Blvd., Walnut Park.

WHARVES AND DOCKS

SAN FRANCISCO—Until September 29, 12 noon, bids will be received by B. P. Lamb, Secretary, Board of Park Commissioners, Park Lodge, Golden Gate Park, for
(1) Construction of two wharves;
(2) Construct approximately 100 yacht berths.

The above work in connection with the Yacht Harbor Extension at the Marina, Bond of 50% of contract price required of successful bidder. Certified check 10% payable to Park Commissioners required with bid. Plans obtainable from Secretary.

SAN FRANCISCO.—Following is a complete list of the bids received by State Board of Harbor Commissioners Ferry Bldg., for furnishing and installing 31 steel rolling doors for Pier No. 1. Frank White, engineer, Ferry Bldg. 1, Frank Mills Co., 525 Market St., \$10,449
 Gunnerson Mfg. Co., 10,461
 J. G. Wilson Corp., 10,747
 Ginn, Carle & Co., Ltd., 10,950
 Arthur Meyn Co., 12,143
 C. J. Waterhouse, 12,750
 Soule Steel Co., 12,990
 Persons Dwan Co., 13,250
 Price Bldg. Specialties Co., 13,990
 Bids held under advisement.

SAN DIEGO, Cal.—See "Government Work and Supplies" this issue. Contract awarded for pier at Naval Operating Base to M. H. Golden, San Diego, at \$101,000.

BERKELEY, Alameda Co., Cal.—R. L. Vaughn, civil engineer, 461 Market St., San Francisco (formerly with the Golden Gate Ferries, Inc.) representing interests whose names are not disclosed, has submitted plans to the Berkeley city council for harbor developments along the entire Berkeley waterfront. Engineer Vaughn declares his principals are willing to back their proposal with a \$100,000 "faithful performance" bond. The improvements will involve development of the entire harbor and waterfront, construction of wharves, slips and terminal facilities, dredging of the harbor to provide 30-ft. water at the slips and other construction necessary to the operation of the terminal.

SAN FRANCISCO.—Century Roofing Co., 7 Front St., awarded contract by Frank G. White, chief engineer, State Harbor Commission, Ferry Building, for laying new roof covering on east and west sides of Pier 35 Shed. The work shall be divided into three contracts, A, B, and C, of approximately 365 squares each. The covering to be laid shall be a built-up asphalt and felt roof with a cap sheet of mineral surfaced roofing.

Following is a complete list of bids: Century Roofing Co., \$6.85 per 100 sq. ft.

R. F. Smith & Co., \$6.87 per 100 sq. ft.

Alta Roofing Co., \$7.24 per 100 sq. ft.

Bender Roofing Co., \$8.00 per 100 sq. ft.

Malott & Petersen, \$8.20 per 100 sq. ft.

Jones Bros. Asbestos Roofing Co., \$8.45 per 100 sq. ft.

SAN FRANCISCO.—Century Roofing Co., 7 Front St., awarded contract by Frank G. White, chief engineer, State Harbor Commission, Ferry Building, to remove present slate covering and laying new covering on roof of back passageway north and south of the State Chamber of Commerce offices.

The area to be covered is approximately 137 squares. The covering to be laid shall be a built-up asphalt and felt roof with a cap sheet of mineral surfaced roofing.

Following is a complete list of bids: Century Roofing Co., \$6.85 per 100 sq. ft.

R. F. Smith, \$7.87 per 100 sq. ft.

Alta Roofing Co., \$9.28 per 100 sq. ft.

Jones Bros. Asbestos Roofing Co., \$10.65 per 100 sq. ft.

Jones Bros. Asbestos Roofing Co., \$7.65 (leaving slate only).

Bender Roofing Co., \$12.50 per 100 sq. ft.

Malott & Petersen, \$13.80 per 100 sq. ft.

MISCELLANEOUS CONSTRUCTION

SAN FRANCISCO.—Brayer Electric Co., 7 Front St., at \$1285 submitted low bid to Board of Public Works to furnish and install electric wiring and

power equipment for Sunset Pumping Station. Complete list of bids follows:
 Brayer Elec. Co., \$1,285.00
 Quality Elec. Co., 1,564.00
 Farnsworth Elec. Co., 1,564.66
 R. Platland, 1,671.00
 John D. O'Hara, 2,036.00
 Atlas Elec. Co., 2,570.00

SAN FRANCISCO.—D. C. McCabe, Call Bldg., at \$13.57 each submitted low bid to Board of Public Works to furnish and install 109 street signs in various sections of the city. Other bids: M. J. Lynch, \$16; E. J. Treacy,

OAKLAND, Alameda Co., Cal.—Chain Link Fence Co., San Francisco, at \$1537 awarded contract by East Bay Municipal Utility District, 512 6th St., to furnish approximately 1350 lin. ft. of six foot chain link fence with posts and gates, as provided under Proposal No. 241.

Contract Awarded.
 BLEACHERS Cost, \$7000
 SAN FRANCISCO. Parker Avenue & Turk St.

Construct bleachers.
 Owner—St. Ignatius College, 2130 Fulton St.

Architect—E. A. Eames 353 Sacramento Street.
 Contractor—Barrett & Hilp, 918 Harrison Street.

Owner Taking Sub-Bids.
 GOLF COURSE Cost, \$2500
 OAKLAND, Alameda Co., Cal. 3420 Telegraph Ave.

Indoor miniature golf course (18 holes)
 Owner—J. Weinstein, premises.

Architect—L. F. Hyde, 372 Hanover St., Oakland.

Preparing Preliminary Plans.
 AUTO CAMP. Cost approx. \$15,000
 MARTINEZ, Contra Costa Co., Calif.

Location not selected.
 Auto camp (36 1-story frame cabins).

Owner—Name Withheld.
 Architect—L. F. Hyde, 372 Hanover St., Oakland.

SACRAMENTO, Cal.—City Manager James Dean seeks the authorization of the city council to proceed with grading, surfacing, and drainage work at the municipal airport, for which bonds of \$150,000 were recently voted. City Manager Dean proposes to carry on the work under the day-labor system, purchasing all materials necessary under the usual bidding procedure. The amount involved in this particular work is \$50,000. The request will be acted upon at the next meeting of the city council. Fred J. Klaus is city engineer.

CALIFORNIA.—Lyman Kins, State Director of Finance, is preparing a budget for submission to the new Governor involving an expenditure of \$8,000,000 for construction at state institutions.

Permanent improvement items for the next biennium in Governor Young's ten year State building program total \$6,532,500.

There is additionally \$1,000,000 appropriated for the new mental hospital in Southern California, \$375,000 available for the new prison for first offenders and \$200,000 in State Athletic Commission funds for barracks construction at the Yountville State Veterans' Home.

The proposed distribution of \$6,532,500 in the Young ten year program by departments is follows:

Department of Finance—State fair improvements, \$250,000.

Department of Institutions—Construction and repairs at hospitals, correctional schools, etc., \$2,640,500.

Department of Military and Veterans' Affairs—National Guard facilities

and Veterans' Home improvements, \$815,000.

Department of Education—Permanent improvement at teachers' colleges and special schools, \$2,147,000, including \$750,000 for proposed building work at San Francisco State Teachers' College.

Department of Penology—Construction and repairs at the prisons, \$680,000; San Quentin receiving \$360,000 and balance going for improvements at Folsom.

FRESNO, Fresno Co., Cal.—City council has appropriated \$3000 to finance erection of grading at the northwest section of the airport and for fencing fronting the hangars. H. S. Foster is city clerk.

SAN MATEO COUNTY, Cal.—City Planning Boards of Burlingame, San Mateo and Hillsborough are considering a proposal to finance construction of a \$1,500,000 tri-city waterfront playground from Coyote Point to Broadway, Burlingame, and east from the Southern Pacific tracks to San Francisco Bay. The plans provide for a bathing beach, breakwater and yacht harbor and a golf links.

BURLINGAME, San Mateo Co., Cal.—City Purchasing Agent Frank Bloom authorized by city council to purchase a time clock for installation on the Burlingame Neon signs.

SAN FRANCISCO.—Until September 22, 8 P. M., bids will be received by Frank T. Kennedy, secretary, Fire Commission, 2 City Hall, for drydock-ing and repairing fireboats "Dennis T. Sullivan" and "David Scannell." Spec. and further information obtainable from secretary.

TERRA BELLA, Tulare Co., Cal.—Until October 7, 11 A. M., bids will be received by Edward H. Robinson, secretary, Terra Bella Irrigation District, for cleaning and covering with a protective coating, the inside of the district's 8,000 barrel stand pipe, 5 miles east of Terra Bella and approximately 20,000 feet of 26-in. to 30-in. riveted pipe, which is laid in the ground with approx. 18-in. of covering. The pipe line is located from about 1½ miles east of Terra Bella to a point about 1 mile north and 1½ mile west of Terra Bella. Certified check 5% payable to district required with bid. Separate bids are desired for the tank work and the pipe line. Further information is obtainable from the secretary.

SAN FRANCISCO.—J. H. McCallum, 748 Bryant Street, at \$2,964.17 awarded contract by Board of Supervisors to furnish lumber for San Francisco Water Department; delivered at Sawyers' Camp, San Mateo County, about 6 miles west of Millbrae, as follows:

400 bd. ft. 2x12-in. random lengths rough redwood merch.

500 bd. ft. 3x12-in. random lengths rough redwood merch.

6000 bd. ft. 4x6-in. x 14-ft. rough redwood merch.

2000 bd. ft. 4x6-in. x 12-ft. rough redwood merch.

20,000 bd. ft. 2x12-in. clear, dry redwood to detail 12-16-20-ft. lengths.

15,000 bd. ft. 1½x12-in. rough redwood merch. (12-16-20-ft. lengths).

5000 bd. ft. 1x4-in. clear redwood battens to detail (12-16-20-foot lengths).

3000 bd. ft. ½x3-in. merch redwood battens rough.

60 pieces 6x6-in. x 16-ft. rough OP No. 1.

80 pieces 2x8-in. x 16-ft. rough OP No. 1.

SAN FRANCISCO.—Until September 29, 3 P. M., under Proposal No. 631, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish ready-mixed concrete required during the balance of the fiscal year 1930-31. Specifications and further information obtainable from above.

Plans Being Figured.

ALTERATIONS. Cost, \$7000
SAN FRANCISCO. 2917 24th Street.
 Alterations to undertaking establishment.

Owner—Leary Bros., 2917 24th St.
Architect—G. A. Berger, 309 Valencia Street.

MISCELLANEOUS SUPPLIES AND MATERIALS

SAN JOSE, Santa Clara Co., Cal.—Until September 22, 8 P. M., bids will be received by C. B. Goodwin, city manager, to furnish and deliver to city Electrical Department, such large incandescent Mazda lamps or the equal, as may be required for year commencing October 1, 1930. Each bidder to use as the total amount of estimated purchase the sum of \$2,500. Certified check \$250 payable to city required with bid. Further information obtainable from city manager.

SACRAMENTO, Cal.—Until Sept. 29 5 P. M., bids will be received by Chas. C. Hughes, secretary, Board of Education, Administration Bldg., 21st and L Sts., to furnish school department with fuel oil throughout fiscal year ending June 30, 1931.

Certified check 10% required with bid. Specifications obtainable from Business Manager of the Board of Education at the above address.

BUSINESS OPPORTUNITIES

SAN FRANCISCO—Names and addresses of the individuals or firms concerned in these opportunities will be furnished on request to the Business Opportunity Department of Daily Pacific Builder, 545-547 Mission Street. Phone GARfield 8744.

20453—Japanese Electric Light Bulbs Tokyo, Japan. Export agents for newly patented frosted electric bulbs (interior frosted) are desirous of forming connections with local importers or distributors of this commodity.

20454—Japanese Merchandise. Kobe Japan. Manufacturers representatives for Japanese merchandise including brushes, baskets, porcelainware, lacquered ware, celluloid ware, antimony ware, bambooware, toys, general curios, imitation pearl beads, electric light bulbs, fishing lines, gut-leaders, etc., desires to contact local buyers of Japanese articles.

20455—Lubricating Oils. Sydney, Australia. Party is anxious to be put in touch with exporters of kerosene, benzine and lubricating oils.

20444—Advertising Novelties. Brussels, Belgium. A sculptor, specializing in the production of statuettes, ash trays, and similar articles to be used for advertising purposes, desires to get in touch with interested parties direct, or would be willing to enter into agency arrangements.

20450—Athletic Goods. Sialkot City, India. Manufacturers of tennis rackets, footballs, hockey sticks, etc., wish to establish a local agency for the sale of their goods.

20451—Representative. San Francisco. Young man willing to represent an American firm in the Orient. Experience in organization and distribution. Can speak the Chinese Mandarin language.

20457—Radios, Advertising Signs, Fire Extinguishers. Nelson, New Zealand. Party interested in receiving

quotations on radios (battery sets), advertising signs and novelties and portable fire extinguishers.

20458—Representative. Cleveland, O. Party who will soon return from Colombia, where he represented American houses of automotive parts for nearly four years, is desirous of representing local firms on commission basis.

20459—Agent. San Francisco. Party leaving shortly to establish himself in Mexico City solicits agencies for that market. Wide export experience.

20460—Hardwood Charcoal. Culiacan, Mexico. Exporter of charcoal made of hard woods desires to communicate with brokers and consumers of this commodity.

National Electric Corp., 1810 Benedum-Trees Bldg., Pittsburgh, Pa., (R. C. Montgomery, president), desires to get in touch with companies or individuals calling on builders, contractors and mantle and tile companies, to handle an electric wall heater.

James A. Ratchford, 428 South Salina St., Syracuse, N. Y., wishes to communicate with some engineering or mercantile firm of merit desirous of making connections in Central New York or who now has such connections and requires the services of a firm to act as a district manager.

Goodman Manufacturing Co., Halsted St. and 48th Place, Chicago, Ill., (Attention A. M. Grasse), manufacturing mining machinery and electric locomotives, seeks a connection with business and manufacturing firms in this city to handle their manufacturing in the East. They are in a position to offer excellent manufacturing facilities for complete machinery weighing from 500 pounds to 50 tons, and could also produce heavy parts for manufacturers who might wish to ship the lighter operating parts and have the entire equipment assembled there.

PAVING BRICK ON IRON BASE FOR ILLINOIS

Three different designs of brick paving with a sheet-iron base will receive their first test in 150 ft. of pavement on the Grand Ave. connection with the Rochester Road near Springfield, Ill., a contract for which has just been awarded, says Engineering News-Record. The road will have a carefully rolled and leveled subgrade on which the iron base will be laid. Next will follow a mastic sand cushion upon which will be placed a layer of 2½- or 3-in. brick with asphaltic filler. Three 50-ft. sections will be laid with the iron base, one using blue annealed flat sheets, the two others galvanized corrugated sheets, in one case with corrugations parallel to the road and in the other transversely. The flat iron base will be ¼ inch thick, while the corrugated iron will be 10 gage. Expansion and contraction in the flat iron section will be provided for by overlapping sheets along the center line. One transverse edge will be turned down to grip the roadway, while the other edge, lying transverse to the road, will be supported upon the adjoining plate section to provide free movement. The ends of the plates at the edge of the pavement will be turned up to form retaining walls for the paving material.

In the section where corrugated galvanized sheets run parallel to the highway, the outer edges will be turned up as in the flat iron section, while one edge of each other sheet will be turned down to grip the roadway. Sheets will be lapped one corrugation, with a T-bar used under each transverse joint. Where the corrugations run transversely, a 16-ft. 8-in. L-section will be welded along the outer edge to retain the brick, while the sheet ends along the center line will be laid on a T-bar. One transverse edge of each sheet will be turned down to grip the roadway, while the other edge will lap no the adjoining section.

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DAILY PACIFIC BUILDER

The only daily construction newspaper affording complete coverage of the construction activities in Central and Northern California — featuring work contemplated, bids wanted, bids opened, contracts awarded, sub-bids wanted and sub-contracts let on all types of building construction; bridges, dams and harbor works, irrigation projects; machinery and equipment; water works and supplies; business opportunities; building permits; building contracts, mechanics' liens; acceptances, etc., etc.

Keep informed on construction developments in Central and Northern California, and the major projects in Southern California, the states of Oregon, Washington, Nevada and Arizona.

Engineering News Section

BRIDGES

STOCKTON, San Joaquin Co., Cal.—Until September 29, 11 a. m., bids will be received by Eugene D. Graham, county clerk, to construct a steel and timber bridge over Little John Creek on Van Allen road at site of existing bridge, moving an 80-ft steel span from the Calaveras River on Cherokee Lane to the new site, constructing new piers, abutments and footings, the erection of the steel span and two new timber panels. Certified check 10% payable to Chairman of the Board of Supervisors required with bid. Plans on file in office of clerk and obtainable from County Surveyor Julius Manthey.

SAN RAFAEL, Marin Co., Cal.—Until October 14, 11 a. m., bids will be received by Rob. E. Graham, county clerk, to construct two reinforced concrete bridges, one at First Valley Inverness and one at Second Valley Inverness-Point Reyes Road District No. 4, involving:

- (a) 135 cu. yds. class A Port. cement concrete;
- (b) 12,600 lbs. reinforcing steel.

Plans obtainable from County Surveyor Rodney Messner at San Rafael.

RED BLUFF, Tehama Co., Cal.—Until September 29, 10 a. m., bids will be received by H. M. Koplin, county clerk, to construct Bent Bridge, 175-ft. in length, over Dry Creek near the Farquhar School in Road District No. 1. Certified check 10% required with bid. Plans on file in office of clerk.

WILLOWS, Glenn Co., Cal.—Until September 25, 2 P. M., bids will be received by W. B. Sale, county clerk, to construct reinforced concrete bridge known as Mehren's Bridge, 3 miles west of Artois. Certified check 10% payable to Chairman of the Board of Supervisors required with bid. Plans on file in office of clerk.

MARYSVILLE, Yuba Co., Cal.—M. A. Jenkins, Marysville, at \$438 awarded contract by county supervisors to construct concrete culvert across ditch at Higgins and Lubman's.

MARYSVILLE, Yuba Co., Cal.—Pehal Bros., Marysville, at \$1047 awarded contract by county supervisors to construct concrete bridge on the Bit House road at Mrs. Blake's farm.

MARYSVILLE, Yuba Co., Cal.—Pehal Bros., Marysville, at \$1499 awarded contract by county supervisors to construct two concrete bridges on the Dobbins Road, near Scott's Place.

OAKLAND, Calif.—Until September 18, 12 noon, bids will be received by Frank C. Merritt, city clerk, to construct concrete culverts and appurtenances in and adjacent to Claremont Avenue (Fish Ranch Road), between Russell Street and east boundary of Claremont Hotel property. Bond of \$2,000 required of successful bidder. Plans on file in office of clerk. Walter N. Frickstad, city engineer.

MERCED, Merced Co., Cal.—United Concrete Pipe Co., Merced at \$3,600

awarded contract by county supervisors to construct three bridges in Supervisor Henderson's district.

MERCED, Merced Co., Cal.—E. K. Angle, Dos Palos, at \$1,250 awarded contract by county supervisors to construct bridge No. 209, over Canal on north line of Sec. No. 22, T. 11 S R 12 E.

SALINAS, Monterey Co., Cal.—Until October 6, bids will be received by county supervisors to construct bridge over Elkhorn Slough on Salinas-Watsonville Highway. Plans obtainable from County Surveyor Howard Cozens at Salinas.

BAKERSFIELD, Kern Co., Calif.—Until September 22, 5 P. M., bids will be received by V. Van Riper, city clerk, to construct two reinforced concrete culverts, one at 34th St. and Kern Island Canal and another at 24th Street and Low Canal. Certified check 10% payable to city required with bid. Plans on file in office of clerk.

UKIAH, Mendocino Co., Cal.—Smith Bros. Co., Eureka, at \$5,744 awarded contract by county supervisors to construct four pile bent system bridge and approaches over Eel River, about 3 miles north of Potter Valley. Certified check 10% required with bid. Plans obtainable from E. H. Smith, county surveyor at Ukiah. Complete list of bids follows:

Smith Bros. Co., Eureka.....	\$5,744
E. A. Holmes, Ft. Bragg.....	5,997
C. H. Gildersleeve, Napa.....	6,985
J. E. Fitzsimmons, Lodi.....	6,438
L. R. Whited, Willits.....	6,875
E. McKee, Eureka.....	8,993

DREDGING, HARBOR WORKS & EXCAVATIONS

PORTLAND, Ore.—Until October 16 3 P. M., bids will be received by U. S. Engineer Office, 321 Customhouse, Portland, for repair and extension of jetty at entrance to Tillamook Bay and for furnishing stone in connection with the project. Specifications obtainable from above.

BERKELEY, Alameda Co., Cal.—See "Wharves and Docks" this issue. Plans awarded for improvement of Berkeley waterfront, including dredging, construction of wharves, slips, etc.

IRRIGATION PROJECTS

TURLOCK, Stanislaus Co., Cal.—Until October 6, 4 P. M., bids will be received by Anna Sorensen, secretary, Turlock Irrigation District, for improvements under ten schedules, involving:

- (a) 933,000 sq. ft. 2-in. thick canal lining;
- (b) 620 cu. yds. concrete in canal structures;
- (c) 5,000 lin. ft. 30- and 36-in. dia. concrete pipe.

All above work located in Improvement Districts Nos. 10, 34, 38, 41, 45, 58 and 53 and Lateral Lower No. 7. Certified check 5% payable to Turlock Irrigation District required with bid. Plans obtainable from R. V. Meikle, chief engineer of the district, and on file in office of the secretary.

TERRA BELLA, Tulare Co., Cal.—Until October 7, 11 a. m., bids will be received by Edward H. Robinson, secretary, Terra Bella Irrigation District, for cleaning and covering with a protective coating, the inside of the district's 8,000 barrel stand pipe, 5 miles east of Terra Bella and approximately 20,000 feet of 26-in. to 30-in. riveted pipe, which is laid in the ground with approx. 18-in. of covering. The pipe line is located from about 1½ miles east of Terra Bella to a point about 1 mile north and 1½ mile west of Terra Bella. Certified check 5% payable to district required with bid. Separate bids are desired for the tank work and the pipe line. Further information is obtainable from the secretary.

STREET LIGHTING SYSTEMS

OAKLAND, Cal.—Butte Electric & Manufacturing Co., 556 Folsom St., San Francisco, at \$24,432 submitted low bid to city council to install ornamental street lighting system in East 12th St., bet. Lake Shore Ave. and 12th Ave., involving 77 ornamental duplex standards together with underground system. 1911 Act. Complete list of bids follows:

Butte E. & M. Co.....	\$24,432
City Imp. Co., Berkeley.....	26,700
R. Flatland, San Francisco.....	26,952
McPage-McKenney Co., Oakland.....	27,675
H. C. Reid Co., San Francisco.....	28,450
T. L. Rosenberg, Oakland.....	32,825

All bids taken under advisement.

Walter N. Frickstad, city engineer.

SAN RAFAEL, Marin Co., Cal.—City council declares intention (543) to install ornamental street lighting system together with underground system in Fourth St. from E St. to point 77-ft. west of H St., involving 24 Westinghouse M 111 on 15 trustee standards. 1911 Act. Bond Act 1915. Hearing October 6. Herbert K. Brainerd, city manager. Eugene W. Smith, city clerk.

PETALUMA, Sonoma Co., Cal.—Property owners in Western Avenue between Main and Keller streets, contemplate installation of a modern electrolier system. Gladys V. Roberts, city clerk.

SAN LEANDRO, Alameda Co., Cal.—City council plans immediate installation of a modern lighting system in Dutton Ave. bet. E 14th St. and Kennelworth Ave. W. A. Richmond, city manager.

MACHINERY AND EQUIPMENT

SACRAMENTO, Cal.—Until Sept. 29 5 P. M. bids will be received by C. Hughes, secretary, Board of Education, Administration Bldg., 21st and L Sts., to furnish and install vocational training equipment for school department.

Certified check 10% required with bid. Specifications obtainable from Business Manager of the Board of Education at the above address.

MARYSVILLE, Yuba Co., Cal.—Until September 23, 7:30 P. M., bids will be received by C. L. Bowen, clerk, Marysville Union High School District

to furnish and deliver one Ford motor truck. Further information obtainable from clerk.

CASTROVILLE, Monterey Co., Cal.—Until September 29, 8 P. M., bids will be received by J. P. Gambetta, clerk, Castroville Union School Dist., to furnish school bus; 4 or more cylinder; 4-speed transmission; 4-wheel brakes; dual rear; seating 50 to 60 pupils and driver; glass 4-inch plate, all around body. Further information obtainable from clerk.

RAILROADS

LAS VEGAS, Nevada—Merritt, Chapman and Scott Corp., P. O. Box 607, San Pedro, awarded contract by Union Pacific System, Pacific Electric Bldg., Los Angeles, for grading, trestles and culverts for the 22-mile branch line to be built from a point on the main line of the Union Pacific, 7 miles south of Las Vegas, to Summit, the designation given the junction of the Union Pacific branch line and the 7-mile line to be built by the government to the main construction center of the Boulder Dam project on the Colorado River. The work will involve 218,000 cu. yds. of common excavation, 22,400 cu. yds. of loose rock, 64,600 cu. yds. of solid rock, 36 pile trestles, 6 frame trestles and 62 corr. iron pipe culverts. Materials for the trestles and culverts will be supplied by the Union Pacific. Time required for completion is six months with work to start on or about October 1. Junction of the branch and main lines is 327 miles from Los Angeles. Under the initial Boulder Dam appropriation of \$10,660,000 the government has allocated \$2,500,000 to provide rail facilities, \$900,000 for the Union Pacific branch line and switching track at Summit and \$1,660,000 for the 7-mile government line to the dam site. Work on the government line will probably not be started until completion of the Union Pacific branch.

McAVOY, Contra Costa Co., Cal.—Hutchinson Co., 1450 Harrison St., Oakland, at \$3167 awarded contract by Southern Pacific R. R. for grading 6500-ft. of standard gauge r.r. track at McAvoy Station to connect S. P. San Aquilino Valley line with plant of Shell Chemical Co., now in course of construction.

WASHINGTON STATE—Examiners of the Interstate Commerce Commission have recommended that the Northern Pacific Railroad and the Oregon-Washington Railroad & Navigation Co. be authorized to construct a branch line from Mocpils to a point on the Hoh River, 6 miles northeast from Spruce in Grays Harbor and Jefferson counties, Washington, a distance of 57 miles. The examiners also recommend that the Oregon-Washington R. R. be authorized to operate over the Northern Pacific between Hoquiam and Mocpils, Wash.

FIRE EQUIPMENT

WATSONVILLE, Santa Cruz Co., Cal.—Eureka Rubber Co., at \$120 ft. and Pioneer Rubber Co., at \$115 ft., awarded contracts by city council to furnish 400 ft. of fire hose, each bidder to furnish 200 ft.

PIPE LINES, WELLS, ETC.

SACRAMENTO, Cal.—Until September 25, 3 P. M., under Order No. 2247, bids will be received by U. S. Engineer Office, California Frust Bldg., to furnish and deliver Rio Vista, Solano county, 1,004 lin. ft. 14-inch internal diameter, machine-made high pressure concrete irrigation pipe. The sections

of pipe shall be either 24- or 30-in. long; bell and spigot pipe. It shall have a wall thickness of at least 1½ in. and an average weight of at least 70 lbs. per lin. ft. The concrete mixture shall be 3½ aggregate to 1 cement. The aggregate shall consist of 70% fine crushed rock with dust, and 30% best grade clean washed river sand. The sections may be hand made but machine made pipe is preferred. Each section shall be solid and homogeneous throughout and shall stand a hydrostatic pressure of 15 lbs. per square inch.

SEWERS AND SEWAGE DISPOSAL PLANTS

ANTIOCH, Contra Costa Co., Cal.—City Engineer E. L. O'Hara preparing plans for B St., sewer extending 1077 ft. on B St., to provide outlet to the di Piazza Tract, the line to run from 6th to 10 Sts.; estimated cost \$2440.

RENO, Nev.—Until September 22, 5 P. M., bids will be received by J. B. Reese, city clerk, to construct sewer lines in various subdivisions, involving:

- (1) 340 lin. ft. 6-in. pipe;
- (2) 59,000 lin. ft. 8-in. pipe;
- (3) 1,300 lin. ft. 10-in. pipe;
- (4) 145 sewer manholes.

Certified check 10% payable to city required with bid. Plans obtainable from city engineer on payment of \$10, not returnable.

REDWOOD CITY, San Mateo Co., Cal.—Redwood City city council will petition the San Mateo county supervisors to construct a storm sewer system on the west edge of Redwood City to control the winter flood waters from the Redwood Hills. Existing sewers are inadequate to carry away the flood waters. Redwood City property would be included in an assessment district to assist in financing the work, according to tentative agreements.

REDWOOD CITY, San Mateo Co., Cal.—Until October 6, 3 P. M., bids will be received by B. E. Myers, city clerk, to construct storm sewers in El Camino Real, one fronting the Sequoia High School Campus, another at Finger Ave. and a third in the vicinity of Jackson St. Will be 18-in. conc. pipe. Funds from \$55,000 bond issue. Plans obtainable from C. L. Dimmitt, city engineer.

MADERA, Madera Co., Cal.—Until October 1, 3 P. M., bids will be received by Jas. Wakefield, city clerk, to construct extensions to sewer system for which bonds of \$20,000 were recently sold to finance. Andrew M. Jensen, engineer, 68 Post Street, San Francisco. Certified check 10% payable to city required with bid. Plans on file in office of city clerk.

SAN FRANCISCO—T. E. Connolly, 461 Market St., at \$254,317 submitted low bid to Board of Public Works to construct Section K of the College Hill sewer, extending from the Mission viaduct to Valencia and Army Streets. Hanrahan Co. next low at \$256,123. Complete list of bids will be published tomorrow. Project involves:

- 4,319 lin. ft. 48-ft. 6-in. reinf. conc. tunnel;
- 1,508 lin. ft. 48-ft. reinf. conc. sewer;
- 318 lin. ft. 3-ft. 6-in. x 5-ft. 3-in. reinf. conc. sewer;
- 315 lin. ft. 6-ft. circular reinf. conc. sewer;
- 75 lin. ft. 18-in. V.C.P. sewer;
- Reinforced concrete junction struc. at 29th and San Jose Ave.;
- Reinforced concrete junction struc. at San Jose Ave. and Army St.;
- Reinforced concrete junction struc. at Valencia and Army Sts.;

- 7 brick or conc. manholes complete on conc. sewers,
- 3,800 lin. ft. 7-in. V.C.P. underdrain covered with conc. or imbedded in broken rock;
- 1,900 lin. ft. 8-in. do;
- 500 lin. ft. 10-in. do;
- 300 lin. ft. 12-in. do.

WATER WORKS

ANACORTES, Wash.—Puget Sound Machinery Depot, Seattle, submitted low bid to city council to construct 16-in. pipe, 16 miles in length, in connection with municipal water system. A complete list of the bids follows:

- Puget Sound Machinery Depot, Seattle, (a) all-steel line, \$459,927; (b) alternate bid for steel with exception of 3,000 ft. of 24-in. wood pipe, \$459,471.
- Chastain and Dorsey, Bellingham, Wash., (a) \$491,396; (b) \$492,490.
- Hans Pederson, Seattle, Wash., (a) \$493,031; (b) \$493,791.
- General Const. Co., Seattle, (a) \$496,164; (b) \$497,076.
- J. H. Coyne, Port Angeles, (a) \$515,636; (b) \$516,852.
- Rowland Const. Co., Seattle, (a) \$518,638; (b) \$519,550.

SEATTLE, Wash.—Bids will be asked shortly by Board of Public Works to construct pipe line and reservoirs in connection with water system; estimated cost, \$2,000,000, of which \$650,000 will finance construction of new reservoir for West Seattle section to replace present pumping system. The reservoir is to be built at First Ave. south and Cloverdale St.; a 48-inch main will be used with this system. The pipe line planned for the city will run from the control works at Lake Youngs to Seattle where it will connect with the main supply line at 51st Ave. south and Leo St. The main will be 66 inches in diameter. Wm. B. Severns is superintendent of the Municipal Water Department.

SAN FRANCISCO—Enterprise Foundry Co., 2902 19th St., at \$9,04875 lb. awarded contract by Board of Supervisors to furnish and deliver c. l. pipe fittings for S. F. Water Department as may be required from time to time during fiscal year 1930-31.

SANTA BARBARA, Cal.—The city water commission has recommended to the city council that a \$2,100,000 water bond issue be called to provide funds for improvements to the city water system. The work proposed, as recommended by Quinton, Code and Hill, consulting engineers, includes:

Raising the present Gibraltar Dam and constructing new rock fill dam within a period of five years, \$2,000,000.

Underground water development, \$200,000.

El Cielito and La Mesa Reservoirs with necessary connections, \$30,000.

Repairs to the Sheffield reservoir, \$80,000.

Replacement of 24-in. redwood line, \$60,000.

Tunnel repairs, \$50,000.

Repairs and replacements must be built from earnings, and the commission recommends the items reduced to bring the issue to \$2,100,000.

SAN FRANCISCO—Until October 6, 11 A. M., bids will be received by Constructing Quartermaster, Fort Mason, to construct a 50,000-gallon steel water tank on a 55 ft. trestle at Fort Miles. Present steel water tank and trestle to be taken down by contractor for the new work. Plans and further information obtainable from above.

ANACORTES, Wash.—Puget Sound Machinery Depot, 322 First Avenue south, Seattle, at \$444,392 (revised bid due to changes in specifications),

awarded contract by city council to lay approx. 16 miles of steel pipe line, varying in size from 16- to 24-inches and c. l. pipe from 8- to 10-in.; also construction of intake, pier, screen chamber, pump house, coagulation basin, valve house, chemical house and equalization reservoir. Changes in the specifications eliminate a commercial pipe line running from the filter plant to a terminus within the city. W. C. Morse Co., engineers, Smith Tower, Seattle.

STREETS AND HIGHWAYS

SALINAS, Monterey Co., Calif.—A. Teichert and Sons, 1846 37th Street, Sacramento, awarded contract by county supervisors to crush and stockpile broken stone at Greenfield in Supervisor District No. 3.

PACIFIC GROVE, Monterey Co., Calif.—City council declares intention (3248) to improve 3rd, 7th, 8th, 9th and 10th Sts. between Ocean View and Lighthouse Aves., and 4th St. and 6th St. between Central and Lighthouse Aves., involving cement concrete gutters; old macadam surface with 4-inch crushed rock base, 1911 Act. Bond Act 1915. Hearing Sept. 18. L. C. Fisher, deputy city clerk.

BUTTE COUNTY, Calif.—Following bids received Sept. 15 by C. H. Whitmore, district engineer, State Highway Commission, Sacramento, for 5.0 miles of pit run gravel borders between north city limits of Chico and north county boundary:

C. Mankel, Sacramento.....	\$1.49; \$4,470
C. A. Howard, Richmond.....	\$1.97 \$5,910
Hemstreet & Bell, Marysville.....	\$2.00 \$6,000
F. J. Chesson, Yuba City.....	\$2.00 \$6,000

STOCKTON, San Joaquin Co., Cal.—Moreing Bros., Savings and Loan Bldg., Stockton at \$10,029 awarded contract by county supervisors to improve Brumel road in the Lockeford district. Engineer's estimate \$11,000.

COLUSA COUNTY, Cal.—Following bids received Sept. 15 by C. H. Whitmore, district engineer, State Highway Commission, Sacramento, for 5.0 miles of pit run gravel borders between 1 mile south of Arbuckle and Geneva:

H. Sykes, Patterson, \$1.55 cu. yd., total.....	\$4,650
Harms Bros., Galt.....	\$1.65 \$4,950
F. J. Chesson, Yuba City.....	\$1.71 \$5,130
C. Mankel, Sacramento.....	\$1.86 \$5,580
Pereira & Reed, Tracy.....	\$2.06 \$6,180
A. Teichert & Sons, Sacramento.....	\$2.24 \$6,720
J. R. Reeves, Sacto.....	\$2.44 \$7,320
Chas. Howard, Richmond.....	\$2.53 \$7,590
Hemstreet & Bell, Marysville.....	\$3.00 \$9,000

EUREKA COUNTY, Nevada.—Bassett Rock Co., Napa, Calif. at \$30,387.94 awarded contract by State Highway Commission to furnish as-

phaltic fuel oil, apply and mix with crushed rock or crushed gravel surface on a portion of the state highway from Hay Branch to Eureka, a distance of 11.65 miles. A. D. Drumm, Jr., Fallon, Nev., only other bidder at \$31,782.40; engineer's estimate, \$36,949.67.

OAKLAND, Alameda Co., Cal.—Hearsey Moore Co., 344 High St., Oakland, at \$4235 awarded contract by City Port Commission, 424 Oakland Bank Bldg., for surface pavement on apron wharf at Ninth Avenue Pier.

YOLO COUNTY, Calif.—Following bids received Sept. 15 by C. H. Whitmore, district engineer, State Highway Commission, Sacramento, for 5.9 miles of pit run gravel borders between Cache Creek and Zamora:

Harms Bros., Galt, \$1.24 cu. yd., total.....	\$4,216
Leroy Kerr, Yolo.....	\$1.22 \$4,488
F. J. Chesson, Yuba City.....	\$1.36 \$4,624
C. Mankel, Sacramento.....	\$1.52 \$5,168
J. R. Reeves, Sacramento.....	\$1.54 \$5,236
C. A. Howard, Richmond.....	\$1.65 \$5,610
A. Teichert & Sons, Sacto.....	\$1.94 \$6,596
Pereira & Reed, Tracy.....	\$1.67 \$6,678
Hemstreet & Bell, Marysville.....	\$1.30 \$7,820
Sheif Const. Co., Oakland.....	\$2.35 \$7,990

MARYSVILLE, Yuba Co., Cal.—A. Teichert and Son, Inc., 1846 37th St., Sacramento, at \$4294.10 awarded contract by county supervisors to place seal coat on road extending from Horstville to and across Wheatland, thence west to a point 1 mile east of the Bear River bridge.

MARYSVILLE, Yuba Co., Cal.—Hemstreet Bell, Marysville, at \$1306.55 awarded contract by county supervisors to place oil surface (road mix) on Main and Second streets in the town of Wheatland.

SANTA ROSA, Sonoma Co., Cal.—Until September 22, 12 noon, bids will be received by Geo. P. Sanborn, county clerk, to grade Lakeville-Sears Point Road, Section "A" in the First Supervisorial District. Project involves:

- (a) \$309 cu. yds. excavation;
- (b) 1100 cu. yds. rock surfacing.

Specifications on file in office of clerk and obtainable from County Surveyor E. A. Peugh at Santa Rosa.

STOCKTON, San Joaquin Co., Cal.—Until Sept. 29, 11 A. M., bids will be received by Eugene D. Graham, county clerk, to pave Lower Sacramento Road from Acampo to Forest Lake on that portion of the San Joaquin County Highway system in Road District No. 2.

Certified check 10% payable to the Chairman of the Board of Supervisors required with bid. Plans obtainable from Julius Manthey, county surveyor, at Stockton.

OROVILLE, Butte Co., Cal.—Until October 6, 1:30 P. M., bids will be received by C. F. Belding, county clerk, for grading one-half mile of the Oroville-Pentz-Magalla bond highway between Lockerman's Place and the Parish House Camp.

Specifications obtainable from County Road Engineer J. A. Baumgarner at Oroville.

LANDER CO., Cal.—Until September 24, 2 P. M., bids will be received by State Highway Commission, Carson City, to grade, construct structures and place selected surface material on 11.70 miles from town of Austin to point 12 miles east. Certified check 5% required with bid. Plans on file in office of U. S. Bureau of Roads, 461 Market St., San Francisco, and obtainable from S. C. Durkee, state highway engineer at Carson City, on deposit of \$15, of which \$10 is returnable.

OROVILLE, Butte Co., Cal.—Until October 6, 1:30 P. M., bids will be received by C. F. Belding, county clerk, for grading the La Porte road from the Farrington Ranch to the Turner Ranch, west of Bangor. Specifications obtainable from County Road Engineer J. A. Baumgarner at Oroville.

STOCKTON, San Joaquin Co., Cal.—Until Sept. 29, 11 A. M., bids will be received by Eugene D. Graham, county clerk, to improve subdivision road in the vicinity of Stockton on that portion of the San Joaquin Highway System in Road District No. 1, involving approximately 40 miles of graveling and oiling.

Certified check 10% payable to the Chairman of the Board of Supervisors required with bid. Plans obtainable from Julius Manthey, county surveyor, at Stockton.

SANTA BARBARA COUNTY, Cal.—Until Oct. 8, 2 p. m., bids will be received by State Highway Commission to grade and pave with Portland cement concrete, 0.6-mile about 1/2-mile north of Santa Maria.

See call for bids under official proposal section in this issue.

SAN BERNARDINO COUNTY, Cal.—Until Oct. 8, 2 p. m., bids will be received by State Highway Commission to pave with Portland cement concrete, 0.3-mile at Malaga street.

See call for bids under official proposal section in this issue.

MARYSVILLE, Yuba Co., Cal.—Until Sept. 22, 8 p. m., bids will be received by Chester O. Gates, city clerk, (38) to improve 12th St. bet. B and Chestnut Sts.; E St. bet. 4th and 5th Sts.; E St. bet. 5th and 6th, and E St. from 16th to 17th Sts., involving removal of concrete curbs and sprinkler system and trees; grading pave with 2 1/2-in. asph. conc. base and 1 1/2-in. asph. conc. surface; construct concrete curbs and gutters, 1911 Act. Bond Act 1915. Plans on file in office of clerk and obtainable from city engineer.

KING CITY, Monterey Co., Calif.—A. J. Raisch, 46 Kearny St., San Francisco, only bidder at \$4,060.81 awarded contract by city trustees (6) to improve portions of First St., involving grading; hyd. concrete curbs; 5-inch hyd. cem. conc. pavement.

SACRAMENTO, Cal.—The state department of public works, B. B. Meek director, has announced that approximately \$63,250,000 will be carried in the department's budget for road work in California during the coming biennium.

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SAN FRANCISCO—W. J. Tohn, 527 Balfour Ave., Oakland, at \$3,757 submitted low bid to Board of Public Works to improve 25th St. bet. Fountain and Burnham Sts., including crossing at Fountain St., involving grading; armored concrete curbs; one-course concrete sidewalks; br. catch-basins; 12-in. vit. pipe sewers; vit. clay pipe side sewers; 6-in. class E conc. pave. with 2-in. asph. concrete surface and 6-in. class F base pave. E. J. Treacy next low at \$3,767.

SAN FRANCISCO—California Construction Co., Standard Oil Bldg., at \$97,890 submitted low bid to Board of Public Works to construct Section 1) of the Sunset Blvd. from Noriega to Irving Street. Next three low bidders were: Meyer Rosenberg, \$104,995; J. M. Smith, \$107,539; Charles Harney, \$109,242. A complete list of bids will be published tomorrow. Project involves:

133,600 cu. yds. excavation;
61,700 cu. yds. imported borrow;
192,900 sq. ft. asph. macadam pave.;
2 1/2-in. asph. conc. surface on 10-inch waterbound macadam base.
38,600 sq. ft. asph. conc. pave., 2-in. asph. conc. surf. and 6-in. class F conc. base;
242 tons of asph. conc. conform pave.;
90,700 sq. ft. 4-in. waterbound macadam pavement;
46,700 sq. ft. 6-in. do;
13,560 sq. ft. 1-course conc. sidewalks;
13,400 lin. ft. unarmored conc. curb;
470 lin. ft. 2x6-in. redwood header;
240 lin. ft. 18-in. V.C.P. sewer;
240 lin. ft. 15-in. do;
120 lin. ft. 12-in. do;
570 lin. ft. 10-in. do;
5 brick manholes;
650 lin. ft. 3-in. black pipe conduit;
2,100 lin. ft. 1 1/2-in. black pipe conduit;
Eight 9-unit yellow reflectors mounted on 2 1/2-inch standard wrought iron pipe posts;
2 "Keep-to-the-right" signs;
920 cu. yds. loam;
1,860 cu. yds. manure;
3 tons of hay for slope protection.

SACRAMENTO, Cal.—Clark & Henry Const. Co., Chancery Bldg., San Francisco, at \$5,499 submitted low bid to supervisors to construct concrete shoulders in Marconi Ave. in North Sacramento district.

SAN FRANCISCO—Until October 1 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to improve San Mateo Ave. between San Diego and Niantic Aves. (where not), involving armored concrete curbs; 6-in. vit. clay pipe side sewers; 2-in. asph. conc. surface pave. on 6-in. class F conc. base. Estimated cost, \$800.

Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall.

SAN FRANCISCO—Until October 1 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to improve the uncompleted portions of 26th Ave. bet. Ortega and Pacheco Sts.; 41st Ave. bet. Noriega and Ortega Sts.; 44th Ave. bet. Noriega and Ortega Sts., etc., involving armored concrete curbs; side sewers; 6-in. conc. base pavement with 1 1/2-in. asph. conc. surface. Est. cost \$6,000.

Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall.

AMADOR COUNTY, Cal.—Following three low bids received Sept. 17 by State Highway Commission to grade and surface with untreated crushed gravel or stone, 13 miles between Amador City and Marietta: V. Gledits Bros., San Diego, \$149,461; E. C. Coates, Sacramento, \$152,103; Centoules Constr. Co., S. F., \$152,983. Bids held under advisement.

SANTA BARBARA COUNTY, Calif.—As previously reported, bids will be received Oct. 8 by State Highway Commission to grade and pave 0.5-mile about 1/4-mile north of Santa Maria. Project involves: 4000 cu. yds. roadway excav.; 11,000 sta. yds. overhaul; 450 cu. yds. struc. excav.; 160 cu. yds. remove concrete; 6800 sq. yds. subgrade; 1520 cu. yds. A conc. (paving and struc.); 34,000 lbs. reinf. steel; 88 ft. 30-in. corr. pipe; 100 ft. timber guard rail; 44 tons cutback asph. road oil; .55 mile new property fence; 32 sta. finish roadway; 8 monuments.

SANTA BARBARA COUNTY, Calif.—As previously reported, bids will be received Oct. 8 by State Highway Commission to grade and pave 0.3-mile at Malaga St. Project involves: 3000 cu. yds. rdwy. excav.; 820 cu. yds. struc. excav.; 7600 sq. yds. subgrade; 1600 cu. yds. A conc. (paving); 50 cu. yds. A conc. (struc.); 450 cu. yds. A conc. (slope paving); 320 cu. yds. A conc. (curbs, walls, etc.); 7676 lbs. reinf. steel; 63 ft. 18-in. reinf. conc. pipe; 120 ft. 8-in. corr. pipe; 30 ft. 18-in. do; 17 sta. finish rdwy.; 1 pumping equipment; 7 monuments.

SAN FRANCISCO—Until October 1 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to construct sidewalks and walls in Grand View Ave. bet. north and south intersections with Market St. Est. cost \$6,000.

Certified check 10% payable to the Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall.

CLOVERDALE, Sonoma Co., Cal.—City Engineer A. M. Jensen, 68 Post St., San Francisco, preparing specifications to pave certain areas in the residential district; estimated cost \$4,000.

SAN FRANCISCO—Until October 1 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to remove sand from roadway and sidewalk and construct bulkhead 3-ft. high in south side of Trumbull St. 250-ft. east of Crant St. Est. cost \$400.

Certified check 10% payable to the Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall.

OFFICIAL PROPOSALS

ADVERTISEMENT FOR BIDS

Subject to conditions prescribed by the undersigned, sealed bids are invited for the General Construction of the Engineering Group (Engineering Building, Engineering Laboratory Building and Hesse Hall Addition) on the grounds of the University of California, Berkeley, California. No bids received after 11:00 A. M. Monday, October 6, 1930. The right to reject any and all bids is reserved. For full information apply to Cashier's Window, California Hall, University of California, Berkeley. A deposit of \$500 is required for each set of Drawings and Specifications.

THE REGENTS OF THE UNIVERSITY OF CALIFORNIA

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received at the office of the State Highway Engineer, Public Works Building, Sacramento, California, until 2 o'clock P. M. on October 8, 1930, at which time they will be publicly opened and read, for construction in accordance with the specifications therefor, to which special reference is made, of portions of State Highway, as follows:

Santa Barbara County, about one-half mile north of Santa Maria (V-S. B-2-A), about six-tenths (0.6) mile in length, to be graded and paved with Portland cement concrete.

San Bernardino County, at Malaga Street (VII-SB-5-A), about three-tenths (0.3) mile in length, to be paved with Portland cement concrete.

Proposal forms will be issued only to those Contractors who have furnished a verified statement of experience and financial condition in accordance with the provisions of Chapter 644, Statutes of 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Bids will not be accepted from a Contractor to whom a proposal form has not been issued by the Department of Public Works.

Plans may be seen, and forms of proposal, bonds, contract and specifications may be obtained at the said office, and they may be seen at the offices of the District Engineers at Los Angeles and San Francisco, and at the office of the District Engineer of the district in which the work is situated. The District Engineers' offices are located at Eureka, Redding, Sacramento, San Francisco, San Luis Obispo, Fresno, Los Angeles, San Bernardino, and Bishop.

A representative from the district office will be available to accompany

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Bunkers, Hoppers, Chuting, Conveyors, Rollers, Mixers, Hoists, Shovels, Tractors, Pavers, Crushers, Drag Lines, Elevators, Car Unloaders, and other Road and Building Equipments;

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prospective bidders for an inspection of the work herein contemplated, and Contractors are urged to investigate the location, character and quantity of work to be done, with a representative of the Division of Highways. It is requested that arrangements for joint field inspection be made as far in advance as possible. Detailed information concerning the proposed work may be obtained from the district office.

No bid will be received unless it is made on a blank form furnished by the State Highway Engineer. The special attention of prospective bidders is called to the "Proposal Requirements and Conditions" annexed to the blank form of proposal, for full directions as to bidding, etc.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
C. H. PURCELL,
State Highway Engineer.

Dated Sept. 10, 1930.

HEATING-VENTILATING BUREAU PROPOSED FOR CITY OF PORTLAND, ORE.

Provision for a heating and ventilating division of the Portland, Ore., city bureau of buildings to handle the inspection of furnace installations is sought by H. E. Plummer, chief of the building bureau, in response to requests from furnace men that rigid inspection be provided by the city.

In a letter to Commissioner Barbur, Plummer pointed out that the fees from the division would finance the inspection and that W. A. Trout, who has been doing the work, has been unable to keep up with the installations. Trout may head the new division.

Plans of the furnace men, now that the city has specified that furnaces must be large enough to heat the houses they are installed to heat, plan to extend the ordinance to take in hot water, steam, sawdust burners and other heating equipment.

In his letter Plummer said that from February to August, inclusive, the city has issued 949 furnace permits of a value of \$235,150 and received fees amounting to \$2,444.50. So far only 486 of the installations have been inspected. He estimated that in the next three months there will be 1175 furnace installations and that three inspectors will be necessary to handle the work. The income will be about \$2700 and the expenses would be about \$2205.

In the budget for next year an item of \$8220 was asked to provide for the new division throughout the year. Plummer also suggested that the smoke prevention work be assigned to the new division.

DIRECT TAX PROBABLE FOR BERKELEY SCHOOLS

Probability that the direct tax plan of financing school improvements will be submitted to the voters of Berkeley at either the general election in November or at the city election next spring was indicated at the last meeting of the Berkeley Board of Education.

With the proposal to vote bonds three times defeated, civic leaders propose to secure funds for new schools and additions to the standing school structures via the direct tax method. An increase in the school tax from 30 to 50 cents, it is estimated would provide \$450,000 every year for school building purposes—one \$300,000 high school unit and two \$75,000 elementary units.

MCDONALD AND MAGGORIO WIN MILL VALLEY STREET CONTRACT

MILL VALLEY, Marin Co., Cal.—McDonald and Maggorio, Sausalito, at \$89,677.90 awarded contract by town trustees under Resolution of Intention No. 755, to improve portions of Summit Ave., etc. A complete tabulation of the bids follows:

(a) McDonald & Maggorio, Sausalito		(c) Union Paving Co., S. F.		(d) Clark & Henery, S. F.		(e) A. J. Raisch, S. F.	
		\$89,677		\$93,430		\$99,950	
(b) N. M. Ball, Berkeley		90,497		A. J. Raisch, S. F.		106,146	
		A	B	C	D	E	
17,180 cu. yd. excavation	.....	.65	.80	.60	.60	.70	
14,140 lin. ft. hydraulic conc. curb	.....	.36	.35	.40	.40	.50	
300 sq. ft. hyd. conc. scoop gutter	.....	.186	.20	.20	.229	.25	
261,130 sq. ft. hyd. conc. pave	.....	.186	.18	.21	.229	.25	
4,500 sq. ft. oil macadam pave	.....	.13	.12	.14	.12	.15	
5,980 lin. ft. 8-in. vit. san. sewer	.....	1.08	1.05	1.00	1.00	1.00	
6,575 lin. ft. 6-in. vit. san. sewer	.....	.84	.85	.85	.85	.85	
1,255 lin. ft. 4-in. vit. san. sewer	.....	.60	.75	.60	.60	.68	
90 lin. ft. 10-in. vit. storm water conduit	.....	1.20	1.50	1.15	1.25	1.25	
470 lin. ft. 10-in. corr. metal storm water conduit	.....	1.86	1.40	1.25	1.40	1.35	
426 lin. ft. 12-in. do	.....	1.92	1.40	1.50	1.75	1.50	
85 lin. ft. 15-in. do	.....	2.28	1.70	2.00	2.00	2.00	
132 lin. ft. 24-in. do	.....	3.60	3.25	3.00	3.50	3.50	
28 manholes	.....	60.00	67.00	55.00	60.00	70.00	
77 lampholes	.....	12.00	15.00	10.00	10.00	20.00	
6 handholes	.....	36.00	20.00	10.00	25.00	40.00	
28 conduit inlets	.....	35.00	30.00	20.00	40.00	50.00	
38 monuments	.....	12.00	15.00	10.00	10.00	10.00	
155 cu. yd. hyd. conc. walls	.....	19.00	17.00	18.00	20.00	25.00	
46 cu. yd. hyd. conc. culvert	.....	20.00	25.00	18.00	22.00	30.00	
5,600 lbs. steel bar reinforcement	.....	.05	.05	.04	.06	.05	
300 lin. ft. 4-in. drain tile	.....	.50	.75	.30	.40	1.00	
385 lin. ft. woven wire guard fence	.....	.90	1.25	1.00	1.00	1.00	
161 lin. ft. hyd. conc. sewer protec.	.....	.50	.60	.40	.35	1.00	

RAISCH AND HARLESS ARE AWARDED SAN RAFAEL PROJECTS

SAN RAFAEL, Marin Co., Cal.—P. F. Harless, San Rafael, at \$19,136.88 awarded contract by city council to improve Second St. between A and E Sts. A complete list of the bids follows:

(A) P. F. Harless, San Rafael, \$19,136 (C) A. G. Raisch, S. F. \$20,052
(B) E. M. McGaw, Stockton, \$19,563 (D) F. J. Main, Fairfax, \$20,291

A complete list of the bids on the project follows:

	A	B	C	D
1,857 cu. yds. excavation	\$.70	\$.70	\$1.00	\$.75
59,746 sq. ft. 5-in. hyd. conc. pave	.185	.165	.19	.17
57,746 sq. ft. 4-in. stone sub-base	.045	.0425	.04	.05
2,096 lin. ft. concrete curb	.40	.60	.50	.50
409 lin. ft. concrete curb-gutter	.70	.80	1.00	1.00
258 lin. ft. 4-in. I. S. pipe sewer	.40	.70	.60	.70
42 lin. ft. 6-in. do	.50	1.00	1.00	.80
70 lin. ft. 8-in. do	.60	1.10	1.00	.90
90 lin. ft. 12-in. do	.85	1.50	1.00	1.10
1 manhole, complete	50.00	90.00	50.00	60.00
30 cu. yds. shallow sewer protec	10.00	20.00	10.00	20.00
18 lin. ft. 10-in. c.i. pipe	1.30	3.50	1.00	3.40
34 lin. ft. 6x6x24-in. arch culvert	4.50	5.55	4.00	5.00
224 lin. ft. 6x6x30-in. do	5.00	6.50	5.00	6.00
324 lin. ft. 2-in. conc. pipe	3.00	4.00	3.00	5.00
1 gutter inlet with grating	35.00	70.00	30.00	40.00
1 special catchbasin	75.00	80.00	40.00	45.00

SAN RAFAEL, Marin Co., Cal.—A. G. Raisch, 46 Kearny St., San Francisco, at \$8,045.92 awarded contract by city council to improve Mission Ave. from Alice St. westerly and Belle Ave. from Alice St. to Mission Avenue.

Complete list of bids follows:

(A) A. G. Raisch, S. F. \$8,045 (D) S. McGaw, Stockton \$9,463
(B) F. J. Main, Fairfax \$8,338 (E) P. F. Harless, San Rafael \$8,632
(C) Louis Lambretti, Mill Valley \$8,443 Engineer's estimate 7,752

Complete list of bids follows:

	A	B	C	D	E
800 cu. yds. excavation	\$.40	\$.55	\$.85	\$.70	\$.70
23,258 sq. ft. 4-in. rock sub-base	.05	.05	.045	.0475	.05
23,258 sq. ft. 5-in. hyd. conc. pave	.19	.17	1.725	.165	.20
1,604 lin. ft. conc. curb-gutter	1.00	1.00	1.10	1.00	1.00
164 lin. ft. 4-in. I. S. side sewers	.50	.70	.80	1.00	.50
10 cu. yds. shal. sewer protection	10.00	20.00	16.00	20.00	10.00
2 manholes, c.i. fr. and covers	50.00	60.00	76.00	90.00	50.00
28 lin. ft. 10-in. c.i. pipe	1.00	2.90	2.00	3.50	1.50
110 lin. ft. 12-in. c.i. pipe	1.00	3.40	2.60	4.00	2.00
4 stand. catchbasins	30.00	57.00	18.00	70.00	40.00

Contracts Awarded

Liens, Acceptances, Etc.

BUILDING PERMITS

San Francisco County

No.	Owner	Contractor	Amt.
1177	Ignatius	Barrett	5000
1178	Nichols	Papenhausen	3000
1179	Klink	Mattock	1000
1180	McGillvray	Moore	3000
1181	Mohler	Owner	4500
1190	Rowan	Burns	4000
1191	Liebman	Owner	25000
1192	Foster	Owner	3750
1193	Beaudette	Owner	3500
1194	Moran	Owner	1000
1195	Meyer	Owner	8000
1196	P G & E Co	Owner	1200
1197	Kolsberg	Owner	4000
1198	Marlo	Owner	1000
1199	Stone	Owner	10000
1200	Standard	Owner	8000
1201	Wagie	Cuddie	1197
1202	McCabe	Owner	5500
1203	Smith	Barrett	4000
1204	Smith	Dorr	1000
1205	Bill	Cahill	22500
1206	Fresno	Mant	1500
1207	Foerst	Owner	1000
1208	Makaren	Owner	6000
1209	Leavy	Owner	7000
1210	Baker	Coburn	14000

BLEACHERS

(1177) PARKER AVE. and Turk St.; construct bleachers.
Owner—St. Ignatius College, 2130 Fulton St.
Architect—E. A. Eames, 353 Sacramento Street.
Contractor—Barrett & Hilp, 918 Harrison St. \$5000

ALTERATIONS

(1178) 2 MESA WAY; alterations to dwelling.
Owner—C. C. Nichols, 2 Mesa Way.
Architect—Masten & Hurd, 210 Post Street.
Contractor—H. Papenhausen, 595 Victoria. \$3000

GARAGE

(1179) 84 FIFTH AVE.; build garage and remodel front.
Owner—G. Klink, 84 5th Ave.
Architect—G. A. Applegarth, Spreckels Building.
Contractor—A. F. & C. W. Mattock, 212 Clara St. \$1000

ALTERATIONS

(1180) 1001 BRAXNAN ST.; alterations to offices.
Owner—McGillvray Raymond Corp., 3 Potrero Ave.
Engineer—J. J. Moore Co., 354 Hobart St., Oakland.
Contractor—J. J. Moore, 354 Hobart St., Oakland. \$3000

DWELLING

(1181) W 29th AVE. 400 N Cabrillo; one-story and basement frame dwelling.
Owner—T. E. Mohler, 751 28th Ave.
Architect—None. \$4500

DWELLING

(1190) W 42nd AVE. 150 S Judah St.; one-story and basement frame dwelling.
Owner—G. and E. Rowan, 39 Tacoma.
Architect—None.
Contractor—J. Burns, 755 40th Ave. \$4000

APARTMENTS

(1191) S JEFFERSON 247 E Broderick; three-story and basement frame (2) apts.

Owner—B. Liebman, 1555 Francisco.
Architect—L. O. Ebbets, 320 Fulton St. \$25,000

BILLBOARD

(1192) SW HOWARD and Embarcadero; billboard.
Owner—Foster & Kleiser, 1675 Eddy.
Architect—None. \$3750

DWELLING

(1193) N HEARST 100 E Detroit; 1-story and basement frame dwelling.
Owner—R. Beaudette, 325 Pierce St.
Architect—None. \$3500

ALTERATIONS

(1194) 724 CLAYTON ST.; alterations to raise dwelling for garage.
Owner—D. Moran, 724 Clayton St.
Architect—None. \$1000

DWELLINGS

(1195) S ROCKDALE 132 W Reposa; two 1-story and basement frame dwellings.
Owner and Builder—Meyer Bros., 727 Portola Drive.
Plans by D. T. Burks. \$5000

ALTERATIONS

(1196) 245 MARKET ST.; alterations to sidewalk.
Owner—P. G. & E. Co., 245 Market St.
Architect—None. \$1200

DWELLING

(1197) S HANCOCK 160 E Sanchez; one-story and basement frame dwelling.
Owner—F. Kolsberg, 141 Winfield.
Architect—None. \$4000

ALTERATIONS

(1198) N MARINA 154 S Broderick; alterations to dwelling.
Owner—C. Marfo, 2736 Ulloa St.
Architect—None. \$1000

APARTMENTS

(1199) W SAN BRUNO 225 S Felton; three-story and basement frame (10) apartments.
Owner—B. Stone, 1738 12th Ave.
Architect—None. \$10,000

DWELLINGS

(1200) S VICENTE 82 W 16th Ave.; two 1-story and basement frame dwellings.
Owner—Standard Bldg. Co., 213 Castaneda.
Architect—None. \$3000

ALTERATIONS

(1201) 77 CUVIER ST.; alterations to dwelling.

Owner—Mr. Wagie, 77 Cuvier St.
Architect—None.
Contractor—T. R. Cuddle, 122 Henry Street. \$1197

DWELLING

(1202) S BEACH 186 E Cervantes Blvd.; two-story and basement frame dwelling.
Owner—J. McCabe, 716 Ulloa St.
Architect—None. \$5500

ALTERATIONS

(1203) SW VAN NESS AVE. and O'Farrell St.; alterations for golf course.
Owner—R. A. Smith, Golden Gate Ave. and Hyde St.
Architect—None.
Contractor—Barrett & Hilp, 918 Harrison St. \$4000

ALTERATIONS

(1204) 818 HEAD ST.; alterations and additions to dwelling.
Owner—T. H. Smith, 818 Head St.
Architect—None.
Contractor—A. D. Dorr, 650 Laguna Honda Blvd. \$1000

FILM EXCHANGE

(1205) SW HYDE and Eddy Sts.; 2-story and basement class B film exchange.
Owner—Bell Bros., Mills Bldg.
Architect—O'Brien Bros. and W. D. Peugh, 315 Montgomery St.
Contractor—Cahill Bros., 206 Sansome Street. \$22,500

ALTERATIONS

(1206) 941 16th ST.; alterations to platform.
Owner—Fresno Fast Freight Co., 941 16th St.
Architect—None.
Contractor—A. Da Mant, Box 939 Menlo Park. \$1500

ALTERATIONS

(1207) SE THIRD and Revere; alterations for store.
Owner—W. Foerst, 1631 Revere.
Architect—None. \$1000

DWELLINGS

(1208) E WOOLSEY 90 SW Somerset; two one-story and basement frame dwellings.
Owner—S. Makaren, 113 Olmstead.
Plans by Oakner. \$6000

REMODELING

(1209) S 24th ST. 100 W Florida; remodel undertaking parlors.
Owner—J. Leary, 2917 24th St., San Francisco.
Architect—G. A. Berger, 309 Valencia Street. \$7000

ALTERATIONS

(1210) SW FRONT and Jackson Sts.; alterations and additions to warehouse.
Owner—Mrs. C. H. Baker, 2048 Market Street.
Engineer—L. S. Rosener, 233 Sansome Street.
Contractor—I. W. Coburn, 2048 Market St. \$14,000

1930 Revised Edition of San Francisco Building Laws now on sale at office of Daily Pacific Builder; \$1.00 per copy.

CAPITAL CITY TILE COMPANY

J. C. PALEN

Manager

914 Seventh Street
Sacramento - - - California

BUILDING CONTRACTS

San Francisco County

No.	Owner	Contractor	Amt.
190	Irwin	Globe	7190
191	S. F. Bank	Braas	1388
192	Lurie x	Cohn	15000
193	McCarthy	Meyer	3900
194	Greenwich	Zelinsky	1700
195	P. G. & K. Co	Larsen	17223
196	Commercial	McLeran	8500

SPRINKLERS

(190) 269-283 BRANNAN ST.; install automatic sprinklers.

Owner—J. J. Irwin, 1040 Oak St. Architect—None.

Contractor—Globe Automatic Sprinkler Co., 440 Howard St.

Filed Sept. 11, '30. Dated Sept. 4, '30.
5th of each month.....85%
30 days after.....15%

TOTAL COST, \$7190

Bond, \$3595. Sureties, Hartford Accident and Indemnity Co. Limit, six weeks. Plans and Spec. filed.

ALTERATIONS

(191) NO. 526 CALIFORNIA. Removal of work; steel work, cabinet work, metal frames and sash, metal grilles, glass and glazing, hardware, plastering, painting and finishing in president's office.

Owner—The San Francisco Bank, 526 California St., San Francisco.

Architect—Ward & Blohme, 24 California St., San Francisco.

Contractor—Brass & Kuhn Co., 1917 Bryant St., San Francisco.

Filed Sept. 15, '30. Dated Sept. 12, '30.
50% completed.....\$520
Completed and accepted.....521
36 days after.....347

TOTAL COST, \$1388

Bond, none. Limit, Oct. 17, 1930. Forfeit, none. Plans and specifications filed.

BUILDING

(192) SE FOLSOM 65-6 NE Fifth NE 34-6 SE 105 SW 25 NW 50 NE 6" NW 25 SW 10 NW 90. All work for one-story and mezzanine reinforced concrete building.

Owner—The Lurie Co., 315 Montgomery St., San Francisco.

Architect—S. Heiman, W. D. Peugh and O'Brien Bros., 315 Montgomery St., San Francisco.

Contractor—L. Cohn, 1 De Haro St., San Francisco.

Filed Sept. 15, '30. Dated Sept. 12, '30.
Concrete walls poured.....\$3750
Roof on.....3750
Completed and accepted.....3750
Usual 35 days.....3750

TOTAL COST, \$15,000

Bond, \$15,000. Surety, American Bonding Co. Limit, forfeit, none. Plans and specifications filed.

RESIDENCE

(193) LOT 5 BLK 2953 Subdivision 4, Miraloma Park. All work for one-story and basement frame residence.

Owner—The McCarthy Co., 46 Kearny St., San Francisco.

Architect—None.
Contractor—Meyer Bros., 727 Portola Drive, San Francisco.

Filed Sept. 15, '30. Dated Aug. —, '30.
Roof sheathing on.....\$975
Brown coated.....975
Completed.....975
Usual 35 days.....975

TOTAL COST, \$3900

Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

PAINTING

(194) 2164 HYDE ST.; exterior painting and finishing.

Owner—Greenwich Realty Co. Architect—None.

Contractor—D. Zelinsky & Sons, 165 Grove St.

Dated Sept. 16, '30. Filed Sept. 12, '30.
On completion.....\$1700

TOTAL COST, \$1700

Bond, \$850. Sureties, The Fidelity & Casualty Co. of New York. Specifications filed.

SHOP

(195) S BAY ST. 70 E Jones St. E 50 x S 99; general construction on 1-story brick building and appurtenances to be used as a machine and repair shop.

Owner—Commercial Center Realty Co., 916 Kearny St.

Architect—H. C. Baumann, 251 Kearny Street.

Contractor—Ralph McLeran Company, Hearst Bldg.

Filed Sept. 17, '30. Dated July 21, '30.
On execution of contract.....\$1000
On completion and acceptance.....5000
Usual 35 days.....2500

TOTAL COST, \$8500

Bond, \$8500. Sureties, Fidelity & Deposit Co. of Md. Forfeit \$20. Limit, 60 days. Plans and Spec. filed.

REPAIRS

(195) FOLSOM ST. bet. 18th and 19th Streets; rehabilitation of division warehouse building.

Owner—P. G. & E. Co., 245 Market St. Architect—None.

Contractor—R. V. and I. H. Larsen, as H. H. Larsen Co., 64 So. Park Street.

Filed Sept. 17, '30. Dated Sept. 6, '30.
10th of each month.....75%
Usual 35 days.....25%

TOTAL COST, \$17,223

Bond, \$17,223. Sureties, Commercial Casualty Ins. Co. Forfeit \$5 per day. Limit, 60 days. Plans and Spec. filed.

COMPLETION NOTICES

San Francisco County

Recorded	Accepted
Sept. 12, 1930—E APTOS AVE 250 S Darien Way, No 45 Aptos Ave. George Kramer to Aetna Const Co	September 11, 1930
Sept. 12, 1930—LOTS 23 and 24 BLK 6501 map Castle Manor. Gordon W Morris to whom it may concern	September 10, 1930
Sept. 11, 1930—W 28th AVE 175 N Kirkham. John J McDonough to whom it may concern	Sept. 10, 1930
Sept. 11, 1930—E 20th AVE 150 N Quintara N 50 x E 120. John E McCarthy to whom it may concern	September 8, 1930
Sept. 11, 1930—E MONTGOMERY 50 S Jackson S 25 x E 127. Frederick C Hotelling to Adrian Ramazzotti	September 10, 1930
Sept. 11, 1930—E 32nd AVE 125 N Judah N 50 x E 120. R F Galli to whom it may concern	September 10, 1930
Sept. 10, 1930—W CHENERY 225 N Randall 25x125. Simon Elsa to James Monaghan	Sept. 8, 1930
Sept. 16, 1930—NE SAN JOSE AVE 236 NW Whipple Ave. J J Bluet to H H Isaacs	September 15, 1930
Sept. 16, 1930—N O'FARRELL ST. W 82-6 from NW Hyde and O'Farrell W 27-6 x N 112-6. John Leale to whom it may concern	September 16, 1930
Sept. 16, 1930—LOTS 12, 13, 14, 15, 16 and 17 BLK 6912B Sub No 2. Geneva Terraces; lots 45, 46 BLK 6965A and lots 9, 10, 11 and 12 blk 6965B Subdiv No 1, Geneva Terraces. H & H Stoneson to whom it may concern	September 11, 1930
Sept. 16, 1930—S GREENWICH ST and W Leavenworth S 137-6 x W	

171-1042. Greenwich Ter House-holding Assn to Chas Weaver.....	October 30, 1930
Sept. 16, 1930—NW SANSOME and Acreant Sts N 71-2 x W 82-6. Metropolitan Properties Co to Barrett & Hilp.....	September 1, 1930
Sept. 16, 1930—LOT 26 BLK 6501, map Castle Manor. A A Wesen-dunk Jr to whom it may concern.....	September 12, 1930
Sept. 16, 1930—SE BLANKEN AND Tocoma Ave 150x100. Wm H Grahm to whom it may concern.....	September 15, 1930
Sept. 16, 1930—W ELGIN PARK 191 S McOppin. Frederick and Emma C Meyer to A D Collman.....	August 27, 1930
Sept. 16, 1930—NW LISBON 150 NE Russia Ave. David Olson to whom it may concern.....	September 16, 1930
Sept. 15, 1930—W 15th AVE 150 N Wawona. John Carroll to whom it may concern.....	September 13, 1930
Sept. 13, 1930—E ARKANSAS 91 N 22nd N 25 x E 100. Marshall T Struthers to Gerald J Conway.....	September 12, 1930
Sept. 13, 1930—E VERNON 200 N Randolph N 25 x E 100 Blk 25 City Land Assn. Ray M J Greene to whom it may concern.....	September 12, 1930

LIENS FILED

San Francisco County

Recorded	Amount
Sept. 11, 1930—NW COR CALIFOR-NIA ST and 9th AVE 50 x 100 on 9th Ave. A Fleisher vs J Guth-ertz.....	\$110
Sept. 10, 1930—E 11th AVE 200 N Noriega N 25 x E 120. Bowman Hardwood Floor Co vs Ernest Watson.....	\$307.53
Sept. 12, 1930—E 11th AVE 250 N Ortega N 25 x E 130, 1856 11th Ave. Edward Hauser & Standard Shade Co vs K W Oertel and Paul and Dusine Ackenheil.....	\$15
Sept. 15, 1930—E STANYAN ST 100 S Oak St 100 x 100. E Anderson vs A and J Hinkelmann and C Andersen.....	\$100
Sept. 13, 1930—E CASTRO ST 26-6 S Valley St S 25 x E 105. N A. B. Walley and H S Hanson as Hanson Bros vs M Pecchino.....	\$80
Sept. 12, 1930—E 11th AVE 250 N Ortega N 25 x E 120. O G Wind-ell, \$50; F M Blessing as New Mission Sheet Metal Works, \$35, vs P and D Ackenheil and K W Oertel.....	

BUILDING PERMITS

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
1140	Brewer	Owner	5500
1141	Richfield	McDonald	4000
1142	California	Ray	1400
1143	Griffith	Owner	5500
1144	Same	Same	5000
1145	Uridge	Owner	2000
1146	Gage	Lyons	6000
1147	Neppach	Liberty	1400
1148	Clark	Young	1000
1149	Rand	Owner	1500
1150	Reynolds	Webb	1050
1151	Gordon	Austin	4500
1152	Hintz	Owner	4000
1153	Berkeley	Vezey	103885
1154	Berkeley	Vezey	55750
1155	Hockenbeamer	Schulz	2000
1156	Union	Owner	3000
1157	Dashiell	Owner	4000
1158	Taylor	Owner	2550
1159	Olson	Swanson	4200
1160	Roman	Furlong	23648
1161	Woodburn	Owner	8500
1162	Kinnery	Owner	6000
1163	Heller	Owner	6500
1164	Tyler	Isakson	2300
1165	Gibson	Paige	2500
1166	Tagney	Haulman	4000

1167	Casarotti	Owner	3500
1168	Hamburger	Muller	20000
1169	Nelson	Owner	35000
1170	Campanile	Lyons	1000
1171	Walker	Owner	6500
1172	Hockwell	Owner	40000
1173	Bond	Owner	9000
1174	Hotchkiss	Pearson	1840
1175	Dole	Owner	3900
1177	Stringham	Appelbe	1175

RESIDENCE

(1140)	1006 EUCLID AVE., BERK.	
	ELEY; two-story 6-room 1-family frame residence.	
Owner	and Builder—E. Brewer, 1915 Hopkins St., Berkeley.	
Architect	—Geo. Rushforth, 354 Pine St., San Francisco.	\$5500

SERVICE STATION

(1141)	1500 UNIVERSITY AVENUE, BERKELEY; class C service station.	
Owner	—Richfield Oil Co., Richfield Oil Bldg., Oakland.	
Architect	—Dyer Const. Co., Ray Bldg., Oakland.	
Contractor	—S. O. McDonald & Son, 2912 Deakin St., Berkeley.	\$4000

ALTERATIONS

(1142)	2332 FOURTH ST., BERKELEY; alterations.	
Owner	—California Prune & Apricot Co., San Jose.	
Architect	—None.	
Contractor	—Bay City Asbestos Co., 188 10th St., Oakland.	\$1400

DWELLING

(1143)	849 COLLIER DR., SAN LEANDRO; 6-room frame and stucco dwelling.	
Owner	and Builder—C. W. Griffith, 1427 87th Ave., Oakland.	
Architect	—L. H. Cox (Fred T. Wood Co.), 1801 Franklin St., Oakland.	\$5000

DWELLING

(1144)	871 COLLIER DR., SAN LEANDRO; 6-room frame and stucco dwelling.	
Owner	and Builder—C. W. Griffith, 1427 87th Ave., Oakland.	
Architect	—L. H. Cox (Fred T. Wood Co.), 1801 Franklin St., Oakland.	\$5000

ALTERATIONS

(1145)	536 20th ST., OAKLAND; alterations.	
Owner	—Uridge & Hofmann.	
Architect	—None.	\$2000

STORES

(1146)	SW COR. CLEVELAND and Athol Aves., OAKLAND; 1-story stores.	
Owner—A. H. Gage, 2122 Shattuck Ave., Berkeley.		
Architect—E. L. Snyder, Shattuck & Addison, Berkeley.		
Contractor—W. E. Lyons, 354 Hobart St., Oakland.		\$6000

ALTERATIONS

(1147)	361 FOURTH ST., OAKLAND; alterations.	
Owner	—A. Neppach and S. Kratz, 227 Davis St., Portland.	
Architect	—None.	
Contractor	—Liberty Elevator Maintenance Co., 1065 Webster Street, Oakland.	\$1400

ALTERATIONS

(1148)	601 ATHOL AVE., OAKLAND alterations and addition to garage.	
Owner	—J. B. Clark, 601 Athol Ave., Oakland.	
Architect	—None.	
Contractor	—John Young, 233 Leo Ave. San Leandro.	\$1000

ALTERATIONS

(1149)	2946 E 14th ST., OAKLAND; alterations (golf course).	
Owner	and Builder—W. M. Rank, 2946 E 14th St., Oakland.	
Architect	—None.	\$1500

STORE

(1150)	3551 FRUITVALE AVE., OAKLAND; one-story store building.	
Owner	—Mrs. F. Reynolds, 3255 Hyde St., Oakland.	
Architect	—None.	
Contractor	—Webb & Whalin, 2930 22nd Ave., Oakland.	\$1055

ALTERATIONS

(1151)	FOOT OF 85th AVE., OAKLAND; alterations.	
Owner	—Gordon-Allen, Ltd.	
Plans	by Contractor.	
Contractor	—Austin Co. of Calif., Ray Bldg., Oakland.	\$2500

DWELLING

(1152)	928 SARONI DRIVE, OAKLAND; one-story 6-room dwelling.	
Owner	—Dorothy Hintz, 928 Saroni Dr., Oakland.	
Architect	—None.	\$4000

ALTERATION

(1153)	LONGFELLOW SCHOOL, BERKELEY; alterations to two-story and basement class C school.	
Owner	—Berkeley Board of Education.	
Architect	—James H. Plachek, Mercantile Trust Bldg., Berkeley.	
Contractor	—Chas. D. Vezey & Sons, 3220 Sacramento St., Berkeley.	\$103,885

GYMNASIUM

(1154)	4210 ADDISON ST., BERKELEY; one-story 11-room class C gymnasium.	
Owner	—Berkeley Board of Education.	
Architect	—Hardman & Russ, 1st National Bank Bldg., Berkeley.	
Contractor	—Chas. D. Vezey & Sons, 3220 Sacramento St., Berkeley.	\$55,750

ALTERATIONS

(1155)	647 SANTA BARBARA RD., BERKELEY; alterations.	
Owner	—E. Hockenbeamer.	
Architect	—None.	
Contractor	—H. K. Schulz, 811 Mendocino Ave., Berkeley.	\$2000

SERVICE STATION

(1156)	1548 GRANT ST., BERKELEY; service station.	
Owner	and Builder—Union Oil Co., 1071 Mills Bldg., San Francisco.	
Architect	—None.	\$3000

DWELLING

(1157)	3553 MT. BLVD., OAKLAND; one-story 6-room dwelling.	
Owner	and Builder—E. L. Dashiell, 1666 67th Ave., Oakland.	
Architect	—None.	\$4000

DWELLING

(1158)	E WOODRUFF AVE. 100 S Excelsior, OAKLAND; one-story 5-room dwelling.	
Owner	and Builder—F. S. Taylor, 2973 Hopkins St., Oakland.	
Architect	—None.	\$2950

DWELLING

(1159)	E 57th AVE. 75 N Harmon, OAKLAND; 1-story 5-room dwelling.	
Owner	—E. Olson, 3735 Laguna Street, Oakland.	
Architect	—None.	
Contractor	—A. W. Swanson, 3045 California St., Oakland.	\$4500

RECTORY

(1160)	4925 PARK BLVD., PIEDMONT; two-story 10-room frame church rectory.	
Owner	—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.	
Architect	—W. E. Schirmer, 700 21st St., Oakland.	
Contractor	—Thos. F. L. Furlong, 460 Jerome Ave., Piedmont.	\$23,648

RESIDENCE

(1161)	18 DORMIDERA AVE., PIEDMONT; 1½-story 7-room frame residence and garage.	
Owner	and Builder—P. E. Woodburn, 624 Prospect, Piedmont.	
Architect	—None.	\$8500

RESIDENCE

(1162)	861 CONTRA COSTA AVE., BERKELEY; two-story 7-room 1-family frame residence.	
Owner	and Builder—C. H. Kinney, 480 Hardy St., Oakland.	
Architect	—None.	\$6000

RESIDENCE

(1163)	2300 CORONA Court, BERKELEY; two-story 6-room 1-family frame residence.	
Owner	—T. B. Heller, 1617 Visalla Ave. Berkeley.	
Plans	by Builder.	
Contractor	—J. M. Walker, 1709 Grove St., Berkeley.	\$6500

DWELLING

(1164)	E VIOLA ST. 100 S Allendale Ave., OAKLAND; one-story four-room dwelling.	
Owner	—Geo. Tyler, 2714 Viola Street, Oakland.	
Architect	—None.	
Contractor	—E. D. Isakson, 2016 Alameda Ave., Oakland.	\$2300

ALTERATIONS

(1165)	381 FIFTH ST., OAKLAND; alterations.	
Owner	—W. R. Gibson, 987 Sunnyside Road, Oakland.	
Architect	—None.	
Contractor	—Harold L. Paige, 5651 Oak Grove Ave., Oakland.	\$2500

DWELLING

(1166)	3729 WISCONSIN ST., OAKLAND; one-story 5-room dwelling.	
Owner	—H. C. Tagney.	
Architect	—None.	
Contractor	—P. R. Haulman, 1243 Broadway, Alameda.	\$4000

DWELLING

(1167)	W RHODA AVE. 377 N Carmel OAKLAND; one-story 5-room dwelling.	
Owner	—R. A. Casarotti, 3961 Rhoda Ave., Oakland.	
Architect	—L. A. Joslyn, 537 Pothill Blvd., Oakland.	\$3500

REPAIRS

(1168)	W BROADWAY 200 N 21st St. OAKLAND; fire repairs.	
Owner	—Hamburger & Kern, 110 Sutter St., San Francisco.	
Architect	—None.	
Contractor	—F. A. Muller, 805 Syndicate Bldg., Oakland.	\$20,000

APARTMENTS

(1169)	N 35th ST. 100 E Telegraph Ave., OAKLAND; three-story 48-room apartments.	
Owner	and Builder—A. C. and Henry Nelson, 3600 13th Ave., Oakland.	
Architect	—C. H. Treichel, 409 American Bank Bldg., Oakland.	\$35,000

CLUB HOUSE

(1170)	1994 UNIVERSITY AVENUE, BERKELEY; one-story two-room masonry club house.	
Owner	—Campanile Golf Club.	
Architect	—E. L. Snyder, Shattuck Ave. and Addison St., Berkeley.	
Contractor	—W. E. Lyons, 354 Hobart St., Oakland.	\$1000

RESIDENCE

(1171)	601 EUCLID AVE., BERKELEY; two-story 10-room 1-family frame residence.	
Owner	and Builder—J. M. Walker, 1709 Grove St., Berkeley.	
Architect	—None.	\$6500

APARTMENTS
(1172) 3764 SIAFTER AVE., **OAKLAND**; three-story 51room apt. bldg. Owner and Builder—N. E. Rockwell, 349 38th St., Oakland.
Architect—C. H. Treichel, 409 American Bank Bldg., Oakland. \$40,000

RESIDENCE
(1173) 1643-55 SCENIC AVE., **BERKELEY**; two-story 11-room 2-family frame and stucco residence. Owner and Builder—Newton S. Bond, 2432 Hilgard Ave., Berkeley.
Plans by Owner. \$9000

RESIDENCE
(1174) 50 DOMINGO AVE., **BERKELEY**; two-story 11-room 1-family frame and stucco residence and garage. Owner—J. W. Hotchkiss, 2559 Claremont Ave., Berkeley.
Architect—Roland I. Stringham, 43 Alamo, Oakland.
Contractor—Emil Pearson, 829 San Luis Road, Berkeley. \$1840

ALTERATIONS
(1175) 3737 SUTER ST., **OAKLAND**; alterations and additions to apts. Owner and Builder—L. E. Dole, 3737 Suter St., Oakland. \$3000
Architect—None.

DWELLING
(1176) N HARPER ST. 280 W 35th Ave., **OAKLAND**; one-story four-room dwelling. Owner—E. B. Bothwell, 3404 Harper St., Oakland.
Architect—Miller & Warnecke, Financial Center Bldg., Oakland.
Contractor—H. K. Henderson, 393 40th St., Oakland.

GARAGE
(1177) 21 TANGLEWOOD RD., **OAKLAND**; one-story garage. Owner—Frank D. Stringham, 21 Tanglewood Road, Oakland.
Architect—None.
Contractor—F. G. Appelbe, 2405 Acton St., Berkeley. \$1175

BUILDING CONTRACTS

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
157	City	Maxwell	6990
158	Valperga	Bothwell	5700
159	Hotchkiss	Pearson	15340
160	Stringham	Appelbe	1175
161	Regents	Oakland	19300

LIGHTING FIXTURES
(157) SW KITTREDGE SREET and Shattuck Ave., Berkeley; furnishing and installing electric lighting fixtures in library building.
Owner—City of Berkeley.
Architect—None.
Contractor—Maxwell Hardware Co., 1250 Washington St., Oakland.
Filed Sept. 15 '30. Dated Aug. 28, '30.
On completion 75%
Usual 35 days 25%
TOTAL COST, \$6990
Bond, \$3495. Sureties, Hartford Accident and Indemnity Co. Limit, Dec. 24, 1930.

RESIDENCE
(158) N SIDE EAST AVE. 1129 feet outside of town limits of Livermore and wood shed; general construction on 1-story frame residence and double garage.
Owner—John Valperga, 30 South Livermore Ave., Livermore.
Architect—None.
Contractor—S. Bothwell and Son, 748 Palm Ave., Livermore.
Filed and Dated Sept. 15, 1930.
When foundation is in \$1500
When brown coated 1500
When finish is in place 1500
When accepted 1200
TOTAL COST, \$3700
Limit, 90 days. Plans and Spec. filed.

RESIDENCE
(159) PTN LOT 3, Ball and White Tract, Berkeley; general construction on residence.
Owner—W. J. Hotchkiss, 2985 Claremont, Berkeley.
Architect—R. I. Stringham, 43 Alamo St., Berkeley.
Contractor—Emil Pearson, 829 San Luis, Berkeley.
Filed Sept. 16, '30. Dated Sept. 12, '30
When frame is up \$3835
When brown coated 3835
When completed and accepted. 3835
Usual 35 days 3835
TOTAL COST, \$15,340
Bond, \$15,340. Sureties, National Casualty Co.

GARAGE
(160) 21 TANGLEWOOD RD., Berkeley; general construction on garage.
Owner—Frank D. Stringham.
Architect—R. I. Stringham, Newhall Bldg., San Francisco.
Contractor—Frank G. Appelbe, 2405 Acton St., Oakland.
Filed Sept. 17, '30. Dated Sept. 13, '30
When frame is up \$293.75
When brown coated 293.75
When completed 293.75
Usual 35 days 293.75
TOTAL COST, \$1175
Bond, \$1175. Sureties, Standard Accident Ins. Co. Limit, Oct. 30, 1930.
Plans and Spec. filed.

ROAD
(161) CAMPUS of the University of California, Berkeley; general construction of cross campus road.
Owner—The Regents of the University of California, Berkeley.
Architect—Herbert B. Foster, University of California, Berkeley.
Contractor—The Oakland Paving Co., 5000 Broadway, Oakland.
Filed Sept. 17, '30. Dated Sept. 13, '30
1st of each month 75%
Usual 35 days Balance
TOTAL COST, \$19,300
Bond: Performance, \$10,000; Labor & Material, \$10,000. Sureties, Pacific Indemnity Co. Forfeit, \$25 per day. Limit, 90 days.

COMPLETION NOTICES

ALAMEDA COUNTY

Recorded	Accepted
Sept. 10, 1930—1590 ORIOLE ST. A. E. Pelton to Wm Prunner.....	August 31, 1930
Sept. 10, 1930—LOT 4 BLK 9, North Cragmont, Berkeley. Winifred Galvin to Thomas Galvin.....	September 6, 1930
Sept. 10, 1930—SEVENTH ST line Harrison St Crossing, Oakland. Southern Pacific Co to Hutchinson Co, Inc.....	August 31, 1930
Sept. 10, 1930—FRUITVALE Power House, Oakland. Southern Pacific Co to P W McDonough as Boiler Tank & Pipe Co.....	September 5, 1930
Sept. 10, 1930—CALIFORNIA ST line and 5th St line, Berkeley. Southern Pacific Co to Hutchinson Co, Inc.....	August 31, 1930
Sept. 10, 1930—508 PLEASANTON Ave., Pleasanton. Peter Edward Holzreiter Jr to Elbert Hyde.....	August 30, 1930
Sept. 10, 1930—283-18 FT SE of E line of Racine St and S line of Alcatraz Ave, Alameda. John A. Cava to Guy Taylor.....	Sept. 1, 1930
Sept. 11, 1930—891 REGAL ROAD, Berkeley. Frederick and Ella R MacCoy to Beckett & Wight.....	September 8, 1930
Sept. 11, 1930—1831 WOOLSEY ST, Berkeley. Martha Carlson to Wm Livingston & Son.....	Sept. 4, 1930
Sept. 11, 1930—159 SOUTHAMPTON Ave, Berkeley. C S Crittenden to H K Schulz.....	September 2, 1930
Sept. 11, 1930—175 SOUTHAMPTON Ave, Berkeley. C S Crittenden to A K Schulz.....	September 2, 1930

Sept. 11, 1930—S JULIA ST 425 1/2 ft E of California St, Oakland. J R Langtry to whom it may concern..... September 10, 1930
Sept. 11, 1930—1615 BREED AVE, Oakland. James B Grubb to whom it may concern..... Sept. 6, 1930
Sept. 11, 1930—LOT 17 BLK 12, Hollywood Re-subdiv, San Leandro. Jos J Barker to M H Loblaw..... September 2, 1930
Sept. 11, 1930—LOT 15, Thornhill Park, Oakland. H F Bowker to Sullivan & Sullivan..... Aug. 28, 1930
Sept. 12, 1930—NE HEARST and Le Roy Ave, Berkeley. Beta Theta Pi Hall Assn to Axel Cederborg..... September 8, 1930
Sept. 12, 1930—1726 MORELAND Dr, Alameda. John E Murphy to whom it may concern..... Sept. 2, 1930
Sept. 12, 1930—LOT 4 BLK C, Fanny Davenport Tract, Oakland. George J and Bertha Vincent to Peppin & Johnson..... Sept. 11, 1930
Sept. 16, 1930—1209 DERBY Street, Berkeley. Joe Glachetto to P Garrello..... September 15, 1930
Sept. 16, 1930—1310 FILBERT Street, Oakland. H W Winkelman to whom it may concern..... September 13, 1930
Sept. 16, 1930—ON PTY of ANTONIO F Vargas et al, State Highway bet Hayward and Niles. Dept of Public Works, Division of Highways, State of California to Rufus Gonsalves..... Sept. 12, 1930
Sept. 16, 1930—LOT 22 BLK A, Durrant Manor, Oakland. Charles W Griffith to whom it may concern..... September 16, 1930
Sept. 16, 1930—LOTS 1, 2 and 3 BLK 5, Regents Park Mo No 6, Albany. G R Heath to Melrose Steel Co, Inc..... September 16, 1930
Sept. 16, 1930—698 BROCKHURST St, Oakland. Thomas J Cox to E S Phelps..... September 10, 1930
Sept. 16, 1930—9520 ALCALA AVE, Oakland. Wm Arthur to whom it may concern..... September 15, 1930
Sept. 10, 1930—LOTS 61 and 65 BLK 8, Map No 4 Regents Park, Albany. Marcus D Wolff to O F Lyon.....
Sept. 13, 1930—2901 PIEDMONT Ave Berkeley. A B Cresap to Beckett & Wight..... September 10, 1930
Sept. 13, 1930—LOT 27 BLK 8, North Cragmont, Berkeley. F H Felt to Self..... September 11, 1930
Sept. 13, 1930—CAMPUS of Mills College, Oakland. Mills College to whom it may concern..... Sept. 10, 1930
Sept. 13, 1930—CAMPUS of Mills College, Oakland. Mills College to W H Hooper..... Sept. 9, 1930
Sept. 13, 1930—OAKLAND YARD. Southern Pacific Co to Hutchinson Company..... Sept. 8, 1930
Sept. 13, 1930—2248 E 14th St, Oakland. Edward E Petersen to J B Peterson..... September 6, 1930

LIENS FILED

ALAMEDA COUNTY

Recorded	Amount
Sept. 10, 1930—LOT 25, map of the ppty of the Capital Homestead Assn, Oakland. H P Born as the Rex Floor Co vs H E and Frances Buckland.....	\$220
Sept. 10, 1930—WY PIEDMONT Ave 190 S Dwight Way, Berkeley. Duner-Matheny Sash & Door Co vs George Auer and K J Henning.....	\$614.48
Sept. 10, 1930—W PIEDMONT Ave 140 S Dwight Way, Berkeley. Duner-Matheny Sash & Door Co vs George and Freida Auer, Mia and K J Henning.....	\$618.62
Sept. 10, 1930—PTN LOTS 16, 17 and 18, Berrymann Tract, Berkeley. Charles M Maurer, \$149; Clarence Maurer, \$172.50; Leo Cheney, \$107. vs De Loss W and Esther Lee, R C McBride Jr.....	

Sept. 12, 1930—2514-16 PIEDMONT Ave., Berkeley. Concrete Engineering Co vs K J, Mia M and M M Henning.....\$750

Sept. 12, 1930—LOT 25 Map of the ppty of Capital Homestead Assn, Oakland. A Stagnaro as Stagnaro Art Glass Works vs H E Buckel-land.....\$112.50

Sept. 12, 1930—LOT 5 BLK N, Excelsior Heights, Oakland. Pacific Coast Aggregates, Inc vs R A and Margaret E Boydston & J S Ber-covich.....\$239.04

Sept. 12, 1930—LOT 5 BLK N, Excelsior Heights, Oakland. M Fried-man & Co vs R A and Margaret E Boydston, J S Bercovich and H E Lansing.....\$233.72

Sept. 12, 1930—LOT 4 BLK 2, map of ppty of John Kearney, Berk-eley. Marcus Hdwe Co vs George and Frieda Auer, K J and Mia M Henning.....\$379.

Sept. 12, 1930—2516 PIEDMONT AVE, Berkeley. Helpertz Sheet Metal Works vs K J and Mia Henning, George and Freda Auer.....\$137.38

Sept. 12, 1930—2514 PIEDMONT AVE, Berkeley. H E Sawyer vs George and Freda Auer, K J and Mia M Henning.....\$157.14

Sept. 11, 1930—W SAN N PABLO AVE 157' N of 27th st, Oakland. Kim-ball-Krough Pump Co vs Standard Creameries Co, A E Williams, as East Bay Elevator Co.....\$150

Sept. 12, 1930—LOT 5 BLK N, Ex-celsior Heights, Oakland. E K Wood Lumber Co vs R A and Margaret E Boydston, J S Ber-covich.....\$197.41

Sept. 12, 1930—NW 17th and Broad-way, Oakland. Wm Rundberg vs W H Weilbye, Gus Lundquist.....\$156.50

Sept. 13, 1930—LOT 5 BLK N, Ex-celsior Heights, Oakland. H A Driscoll Co vs R A and Jane Doe Boydston, J S and Jane Doe Ber-covich.....\$2764

Sept. 13, 1930—LOT 5 BLK N, Ex-celsior Heights, Oakland. H A Driscoll Co vs R A and Jane Doe Boydston, J S and Jane Doe Ber-covich.....\$2764

Sept. 13, 1930—LOT 275, Montclair Highlands, Oakland. Pacific Mfg Co vs Frank I and Jeannetta G Guilford, George and F E Warn, Warn Brothers.....\$285.15

Correction in Location

Sept. 12, 1930—WEST LINE PIED-MONT Ave, 140 S Dwight Way, Berkeley. Helpertz Sheet Metal Works vs K J and Mia Henning, George and Freda Auer.....\$137.38

Correction in Location

Sept. 12, 1930—PTN LOT 20 BLK D, Ansbacher Tract, Hayward, Oak-land. Stair Building Co vs F E and Jane Doe Bilcoe.....\$87.10

Sept. 16, 1930—LOT 30 BLK B, 4th Ave Terrace, Oakland. Hardwood Floor Co, Inc vs Ethel M and W H Killer.....\$148.28

Ray Glass Co, \$465; Central Plyb Co, \$390.63; M C Henry, \$93.80; P Kooman, \$150; Hartman Elec Co, \$246.50; M & S Tile Co, \$397.50; Blackman & Anderson, \$78.78, to Mary Sulprizio.....

Sept. 16, 1930—230-234 E 16th ST, Oakland. W F Ellenberger as Square Deal Paint Co to Hugh Richardson.....\$276.05

Sept. 13, 1930—LOT 83 BLK 7, Key Monte Terrace No 3, Berkeley. E K Wood Lbr Co to H C and Gladys L Smith.....\$193.98

BUILDING CONTRACTS

SAN MATEO COUNTY

RESIDENCE
LOT 110 Hussing Subdiv, San Mateo; all work on residence.
Owner—Abraham Horwitz, et al.
Architect—None.
Contractor—J. L. McDonald, 1 5 5 3 Howard Ave., Burlingame.
Filed Sept. 11, '30. Dated May 22, '30.
Sub-floored.....15%
Lathed.....15%
Brown coated.....20%
Completed.....25%
Usual 35 days.....25%
TOTAL COST, \$5650

BUNGALOW COURT

LOT 7 BLK 10, Dingle Park; general construction on rustic bungalow court and garage.
Owner—T. B. Lomman, et al.
Architect—None.
Contractor—Lloyd Jones.
Filed Sept. 10, '30. Dated Sept. 4, '30.
Payments and Total Cost Omitted.
Plans and Spec. filed.

SEWER SYSTEM

SAN CARLOS; construct vitrified sew-ers, etc.
Owner—W. F. Chipman, et al, Bay-wood, San Carlos.
Engineer—George Kneese, Courthouse Redwood City.
Contractor—H. E. Connor, 148 Duane, Redwood City.
Filed and Dated Sept. 4, 1930.
Progress payments.....75%
Usual 35 days.....25%
TOTAL COST NOT GIVEN.
Bond, \$1150. Sureties, Fidelity & Casualty Co. Linit, 30 days. Plans and Spec. filed.

RESIDENCE

LOT 2 BLK 67, Easton. All work for five-room frame and stucco residence and garage.
Owner—John Wallace Kyte et al.
Architect—None.
Contractor—Bert Norberg, 832 Mor-rell St., Burlingame.
Filed Sept. 13, '30. Dated Sept. 7, '30.
Frame up.....\$1500
Brown coated.....1500
Completed.....1500
Usual 35 days.....1500
TOTAL COST, \$6000
Bond, limit, forfeit, plans and spec-ifications, none.

RESIDENCE

PART LOTS 7 AND 8, El Cerito Park Hillsborough. All work for two-story frame and stucco residence and garage.
Owner—Boris Kitchin, Hillsborough Architect—Gardner A. Dailey, 425 Mason St., San Francisco.
Contractor—A. F. Mattock, et al, 272 Clara St., San Francisco.
Filed Sept. 13, '30. Dated Sept. 8, '30.
Roof sheathed.....\$3371.75
Plumbing roughed in.....3371.75
Completed.....3371.75
Usual 35 days.....3371.75
TOTAL COST, \$13,487.00
Bond, \$13,487. Surety, Indemnity Insurance Co. Limit, 90 working days Forfeit, none. Plans and specifica-tions filed.

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded.....Accepted
Sept. 12, 1930—LOT 27 BLK 3 and LOT 55 Blk 2, Jefferson Park. Cas-tle Bldg Co to Henry Horn.....August 21, 1930
Sept. 13, 1930—ROUTE 68 Section A, South San Francisco. State High-way Commission to H W Rohl Co.....September 8, 1930
Sept. 13, 1930—LOT 2 BLK 1, Central Park. Thomas Nelson to whom it may concern.....September 13, 1930
Sept. 13, 1930—LOT 110, Husing Sub San Mateo. Abraham Harwitz, et al to J L McDonald.....Sept. 12, 1930
Sept. 13, 1930—MILBRAE. Union League Golf & Country Club to Charles T Magill.....August 25, 1930
Sept. 13, 1930—LOTS 23 and 24 BLK 16, Visitation. Antone Rassovich to Jack E Lester.....Sept. 10, 1930
Sept. 13, 1930—LOTS 6 and 7 BLK 4, Visitation. Euk Holiday to J E Lester.....September 10, 1930
Aug. 27, 1930—LOT D BLK 6, Bur-lingame Land Co. Frank K Jones et al to whom it may concern.....August 21, 1930
Aug. 30, 1930—LOT 31 BLOCK 35, Easton. Stanley N Wilson to Boyd C Lindsey.....August 29, 1930
Aug. 30, 1930—PART LOT 1 BLK 24 Palo Alto Park. Blayer N Hill to A D Austin.....August 28, 1930
Aug. 30, 1930—ROUTE 68, Sect A. State to H W Rohl Co.....August 29, 1930
Sept. 3, 1930—LOT 4 BLK 12, Wood-side Glens. C F Howard to whom it may concern.....Sept. 3, 1930
Sept. 3, 1930—LOT 28, Middlefield Park. Phillip G Schmidt to whom it may concern.....Sept. 3, 1930
Sept. 3, 1930—LOT 19 BLK 8, Bur-lingame Park. Marguerite Han-sen to Frank M Cavanaugh.....September 2, 1930
Sept. 3, 1930—LOT 8 BLK 126 South San Francisco. Angelo Bottini to Lorenzo Armanino.....Sept. 2, 1930
Sept. 4, 1930—LOTS 26 and 27, Bel-monti. W E Auger to Meyer Bros.....August 27, 1930

RELEASE OF LIENS

ALAMEDA COUNTY

Recorded.....Amount
Sept. 11, 1930—LOT 3 BLK H Clare-mont Pines, Oakland. H K Schulz to Rose W and R Harry Croninger.....\$271.40
Sept. 12, 1930—S PALM AVE 100 ft W of Almond Ave, Livermore. J L Hutchins to Walter M and E W Woodward.....\$150
Sept. 13, 1930—LOT 83 BLK 7, Key Route Terrace No 3, Berkeley. Redwood Mfg Co to H C Smith.....\$319.50
Sept. 13, 1930—LOT 24 and Ptn Lots 23 and 25 Blk 9, Berkeley Heights Berkeley. T P Hogan Co to W H Hooper.....\$40.45
Sept. 13, 1930—LOT F 79, Fairway Estates in Oak Knoll, Oakland. Pacific Gas Appliance Co \$55; East

Member Insurance Brokers' Exchange

FRED H. BOGGS
INSURANCE
490 GEARY STREET

Phone FRanklin 9400

San Francisco

Sept. 4, 1930—LOT 10, Hillsborough Terrace. Oscar L Cavanaugh to whom it may concern.....May 29, 1930
 Sept. 4, 1930—LOT 6 BLK 23, Millbrae Highlands. Elias Vigen to whom it may concern.....Sept. 2, 1930
 Sept. 4, 1930—ROUTE 68, Section D. State Highway Commission to H D Baker.....September 30, 1930
 Sept. 5, 1930—ATHERTON. Samuel Litchfield to Meese & Briggs.....August 13, 1930
 Sept. 6, 1930—LOT 65, Brewer Sub No 3. J C Wells to whom it may concern.....September 6, 1930
 Aug. 28, 1930—LOT 11 Wellesley Pk. Frank Harris Barton to Harry W Arnold.....August 27, 1930
 Aug. 28, 1930—LOT 5 BLK 1, Vista Grande. Fred Dixon to E Jensen.....August 20, 1930
 Aug. 28, 1930—LOT 3, Central Park. Thomas Nelson to whom it may concern.....August 28, 1930
 Aug. 28, 1930—LOTS 18 and 19 BLK 9, San Bruno. WM Mueller et al to whom it may concern.....August 13, 1930
 Aug. 28, 1930—LOTS 12 and 13 BLK 11 East San Mateo. A J Peasey to whom it may concern.....August 26, 1930
 Aug. 28, 1930—LOT 29 BLK 8, San Carlos. Wm Kappeler to whom it may concern.....August 22, 1930
 Aug. 29, 1930—LOT 2, Oak Knoll Manor. John W Burris to whom it may concern.....August 29, 1930
 Aug. 29, 1930—LOT 1 BLK 5, Lomita Park. Hilton Taylor to whom it may concern.....August 27, 1930
 Aug. 28, 1930—LOTS 35 and 36 Blk 9, Central Park. Sig J Olofsson to whom it may concern.....August 28, 1930
 Sept. 4, 1930—LOT 83, Brewer Tract. Lloyd C Simpson et al to Self.....September 3, 1930
 Sept. 4, 1930—LOTS 11 and 12 BLK J, San Bruno. Lawrence Anderson to E A Anderson.....Aug. 27, 1930
 Sept. 5, 1930—LOTS 11 and 12 BLK 17, San Bruno. Virgil Anderson to whom it may concern.....August 29, 1930
 Sept. 5, 1930—215 HIGHLAND AVE Burlingame. Joseph P Brit to Stephenson Const Co.....Sept. 1, 1930
 Sept. 5, 1930—220 and 224 Los Banos Ave. Henry Shapiro to whom it may concern.....Sept. 5, 1930

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded Accepted
 Sept. 11, 1930—LOTS 55, 56, 57, 58 and 59 Blk 2, San Bruno. Emila Filippo et al to whom it may concern.....Sept. 4, 1930
 Sept. 11, 1930—LOT 27 BLK 4, Vista Grand. Harry McDonald et al to whom it may concern.....Sept. 6, 1930
 Sept. 11, 1930—LOTS 53 and 59 BLK 51, North Fair Oaks. Rudolf Svoboda to whom it may concern.....September 8, 1930
 Sept. 11, 1930—PART LOT 1 BLK 8 Lomita Park. A C Brandt to whom it may concern.....Aug. 8, 1930
 Sept. 10, 1930—LOT 28, Watlington Park. Daisy C Scott to C M Hinds.....September 8, 1930

LIENS FILED

SAN MATEO COUNTY

Recorded Amount
 Sept. 10, 1930—LOT 27 BLK 4, Vista Grande. A M Harrison vs H McDonald\$185

Sept. 10, 1930—LOT 71, Peninsula Manor. San Mateo Planing Mill Co vs J L Debenedetti et al.....\$881.04
 Sept. 11, 1930—LOT 26, Stanford Pk Annex. Peninsula Plumbing Co alias vs Martin Dioli et al.....\$175
 Sept. 10, 1930—LOT 29 BLK 21, Belmont. C B McLane vs Davenport Realty Co\$218.33
 Sept. 10, 1930—LOT 28 BLK 21, Belmont. San Mateo Planing Mill Co vs Davenport Realty Co.....\$550.96
 Sept. 13, 1930—PART LOT 34, San Mateo Park. Frank Ferres vs H Smith, et al.....\$558.80

BUILDING PERMITS

SAN JOSE

RESIDENCE, 3-room frame, \$1,950; Second near Mission; owner, C. W. Cherrie, 855 N 2nd St., San Jose.
 VAULT, brick transformer, \$2160; Julian at Bridge; owner, Bean Spray Co, 355 W Julian, San Jose; plans by owner; contractor, Wm. Moon, 75 Duane, San Jose.
 BUILDING, 1-story class C business, \$1000; S 2nd near Santa Clara; owner, De Saisset Est.; contractor, E. J. Shottenhamer, 401 So. Market St., San Jose.
 ALTERATIONS to class C business building, \$1000; 42 E Santa Clara; owner, Kirk Est., Kirk Ave., R. F. D., San Jose; contractor, J. C. Thorp, Bank of Italy Bldg., San Jose.
 ALTERATIONS to class C business building, \$1150; SE Market and St. John; owner, G. Wendt & Sons, Market and St. John, San Jose; contractor, Frank L. Hoyt, 495 S 13th St., San Jose.
 RESIDENCE, six-room frame, \$5900; Shasta near Park; owner and builder, Ira Brotzman, 5 Garfield, San Jose.

BUILDING PERMITS

PALO ALTO

RESIDENCE, frame and stucco, \$6,000; 470 Tennyson Ave.; owner, L. Engman; contractor, Harry Engman, 2230 Fasso St., Palo Alto.
 ALTER RESIDENCE, \$1000; 501 Kingsley Ave.; owner, F. A. Kolster, 501 Kingsley Ave., Palo Alto; contractor, Black & Campbell.
 RESIDENCE, frame and stucco, \$6,000; 1520 Middlefield Road; owner, A. Aro, 1143 Webster St., Palo Alto; contractor, Aro Q Olseman.
 RESIDENCE, frame and stucco, \$3,500; 1525 Alma St.; owner, Carl E. Johnson; contractor, John E. Hanson, O'Connor, E Palo Alto.

BUILDING CONTRACTS

CONTRA COSTA COUNTY

RESIDENCE
 LOT 4 BLK 229, Central Addition to Pittsburg. All work for residence Owner—August and Marguerite Seiback, 391 E-9th St., Pittsburg. Architect—Edward M. Cooney, Pittsburg.
 Contractor—Burt T. Owsley, Owsley Apartments, Pittsburg
 Filed Sept. 15, '30. Dated Sept. 8, '30.
 2d story floor joists in place \$1446.75
 Roof completed1446.75
 Building completed1446.75
 Usual 25 days1446.75
 TOTAL COST, \$5787.00
 Bond, \$3000. Surety, Fidelity & Deposit Co. of Maryland. Limit, within 75 working days from date. Forfeit, none. Plans and specifications filed.

DWELLING

LOTS 85 AND PORTION OF LOT 88 in No. 4 Oak Springs Tract. All work for one and one-half-

story, basement and garage frame and plastered dwelling.
 Owner—Olive E. Poirier, Oakland. Architect—None.
 Contractor — James E. Sullivan, Orinda.

Filed Sept. 15, '30. Dated Aug. 19, '30.
 Contract signed\$1500
 1st coat plaster on1500
 Building completed1530
 TOTAL COST, \$4530
 Bond, limit, forfeit, none. Plans and specifications filed.

BUILDING CONTRACTS

CONTRA COSTA COUNTY

GRADING

NEAR McAVOY; grading for construction of approx. 6800 feet of track at McAvoy.
 Owner—Southern Pacific Company. Architect—None.
 Contractor—Hutchinson Co., 1450 Harrison St., Oakland.
 Filed Sept. 11, '30. Dated Sept. 3, '30.
 Monthly payments. Price shall be cost plus 10 per cent.
 Bond, \$5167. Sureties, United States Guarantee Co. Plans and Spec. filed.

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded Accepted
 Sept. 15, 1930 — LOT 3 BLK 24, Richmond Traffic Center. David Crockett Gray to Carl Overaa.....Sept. 8, 1930
 Sept. 13, 1930—EASTERLY 47 ft of Lot 8 blk 17, No 3 portion of Park Side Addn and Racetrack Subdiv. Hugh Savage to whom it may concern.....September 11, 1930
 Sept. 13, 1930—REPAIR oil macadam platform at Pittsburg. Southern Pacific Co to Hutchinson Co.....September 8, 1930

LIENS FILED

CONTRA COSTA COUNTY

Recorded Amount
 Sept. 11, 1930—LOT 130, No 2, Walnut Lands, Concord. George E and John M Soares as Concord Ice & Fuel Co vs Mr and Mrs Glenn F Lee, E P Seaward, H Quince, et al\$72.40
 Sept. 11, 1930—LOT 5 BLK 115 West Side Addn No 3, Pittsburg. Redwood Mfrs Co vs A R Peddar, et al\$982.16

BUILDING CONTRACTS

MONTEREY COUNTY

DWELLING & GARAGE

LOTS K and L, Sherwood & Hellman's Map of Salinas City on the W side of California St bet. San Luis and John Sts.; general construction on dwelling and garage. Owner—A. E. and Annie M. Warth, 9 W Gabilan St., Salinas. Architect—Huson & Reese, Salinas. Contractor—E. P. Reese, 153 Central Ave., Salinas.
 Filed Sept. 4, '30. Dated Sept. 2, '30.
 Foundations completed.....\$2,405
 Frame up and roof covered.....2,405
 Completed2,405
 Usual 35 days2,405
 TOTAL COST, \$9,620
 Bonds filed. Sureties, Clarence Tyan and E. Dougharty. Plans and Spec. filed.

ADDITION

PACIFIC GROVE; Forest and Hillcrest Aves.; general construction on addition to present high school. Owner—Pacific Grove High School Dist., Pacific Grove. Architect—W. H. Weeks, 111 Sutter St., San Francisco.

Contractor—Chas. A. Langlais, 472 Tehama St., San Francisco.
Filed Sept. 6, '30. Dated Aug. 27, '30.
Progress payments.
Usual 35 days.....25%
TOTAL COST, \$3,623
Limit, 90 working days. Plans and Spec. filed

COMPLETION NOTICES

MONTEREY COUNTY

Recorded	Accepted
Sept. 12, 1930—LOT 3 of Parcel 6, Romie Lane Subdiv. W L Ruden to whom it may concern.....	September 10, 1930
Sept. 12, 1930—LOTS 11 and 13 BLK 2, Sunshine Park Tract, W G O'Bryan to H R O'Bryan.....	September 8, 1930
Sept. 12, 1930—LOTS 40 and 41 Blk 6, Del Monte Heights No 2. Laura L Clark to W Breyer.....	September 10, 1930
Sept. 11, 1930—LOT 15 BLK 201, Monterey Peninsula Country Club No 2. Alfred Price to whom it may concern.....	Sept. 5, 1930
Sept. 8, 1930—LOTS 24 and 26 Blk 26, map of Withers's Addn, Monterey. Glenn C Heinrich to Self.....	September 5, 1930
Sept. 6, 1930—LOT 9 and S 1/2 LOT 7, Blk 16 map No 4. Carmel by the Sea. George M Whitcomb.....	September 5, 1930

RELEASE OF LIENS

MONTEREY COUNTY

Recorded	Amount
Sept. 6, 1930—LOT 3, Elton Hebbbron Subdiv, Rancho L Sausol of Alisal Twp, 5 acres. Sterling Lbr Co to Elton Hebbbron.....	\$276.40

BUILDING PERMITS

STOCKTON

ADDITION to dwelling, \$1250; 919 N Edison St.; owner, Frank Williams, 919 N Edison St., Stockton; contractor, Lewis & Green, Bank of Italy Bldg., Stockton.
RESIDENCE and garage, \$400; 1859 Carmel Ave.; owner, J. M. Heltterbrand, 1859 Carmel Ave., Stockton.
REMODEL store, \$2000; 36 N Wilson Way, owner, New Bros., 36 North Wilson Way, Stockton; contractor, P. C. Hunt, Golden Gate Ave., Stockton.
REMODEL hotel, \$2000; 207 North San Joaquin St.; owner, Jacob Simon, premises.

COMPLETION NOTICES

SAN JOAQUIN COUNTY

Recorded	Accepted
Sept. 16, 1930—NEW HOPE GRK, Wilmar School, Thornton. Board of Trustees, New Hope Grammar School District to Frank P Guyon.....	Sept. 13, 1930
Sept. 16, 1930—LOT 7 and N 72 ft. Lot 8 Blk 2, Hutchins's Addition to Lodi, J H Meyers to T E Williams.....	Sept. 4, 1930
Sept. 16, 1930—STOCKTON. Associated Oil Co to Commercial Elec Co.....	Sept. 11, 1930
Sept. 16, 1930—PART LOTS 31 AND 32 Blk 5, Sunnyside Addition, Sec 31, Weber Grant, Stockton. Oliver E Vanasse to Thurston & Reatty.....	Sept. 7, 1930
Sept. 16, 1930—STOCKTON. Associated Oil Co to Dyer Constr Co.....	Sept. 11, 1930
Sept. 15, 1930—CALAVERAS river, Mosher, Bear and Live Oak creeks Stockton. Dept of Public Works,	

State of California to Jacobs and Pattinani.....	September 10, 1930
Sept. 15, 1930—STATE HIGHWAY. Dept of Public Works, Division of Highways, State of California to Lilly, Willard & Blasotti.....	September 11, 1930
Sept. 15, 1930—LOT 14 BLK 28, Victory Park Terrace. John G Garibaldi to H W Johnson.....	Sept. 3, 1930
Sept. 12, 1930—LOTS 25 and 26 Blk 4, Northern Addn, Stockton. Adolf Krelm to J M Heltterbrand.....	September 11, 1930
Sept. 11, 1930—LOT 9 BLK 2, La Bonita Park, Tracy. Jacob Levand to whom it may concern.....	August 1, 1930

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded	Accepted
Sept. 8, 1930—W 10 FT of LOT 10 and all of lots 7, 8 and 9 blk 37, Antioch. Geo J and Marie Hampton to G Z Smith.....	Sept. 4, 1930

COMPLETION NOTICES

MARIN COUNTY

Recorded	Accepted
Sept. 10, 1930—SAN ANSELMO. Jonathan and Agnes Starkey to whom it may concern.....	September 8, 1930
Sept. 3—SAUSALITO. Joseph Carlson to whom it may concern.....	August 30, 1930
Sept. 6, 1930—SAUSALITO. Nazarena Fitzgerald & Howard Beale to Leo L Nichols.....	Sept. 3, 1930
Sept. 6, 1930—SAN ANSELMO. W J Kemp to whom it may concern	
Sept. 6, 1930—SAN ANSELMO. W J Kemp to whom it may concern.....	

LIENS FILED

MARIN COUNTY

Recorded	Amount
Sept. 3, 1930—SAUSALITO. George E Mcfeely, \$306.90; M H Betten-contr, \$1178.50, vs K Such and Leo Nichols.....	\$1,008.75
Sept. 3, 1930—SAUSALITO. R D Hood vs K Such et al.....	\$1,008.75

COMPLETION NOTICES

SONOMA COUNTY

Recorded	Accepted
Sept. 12, 1930—FOUR ACRES m or l on main county road leading from Geyserville to Healdsburg. Jesse W McAllister to whom it may concern.....	July 25, 1930
Sept. 13, 1930—NE COR KING and Nason Sts, Santa Rosa. Frank D Cordray to whom it may concern.....	September 12, 1930

LIENS FILED

SONOMA COUNTY

Recorded	Amount
Sept. 15, 1930—10 ACRES IN SEC. 22 T 9 N R 9 W and Lots 8 and 9 Blk O, Camp Rose Sub and Lots 1 and 2 Blk 3, Fitch Mt Tavern Subd., Sonoma County. W Henry Chaney, \$6632.35; W H Chaney, \$1649.35; William Taylor, \$222; Albert F Loomis, \$185.08 vs Fitch Mountain Development Co and A M Fwing.....	
Sept. 12, 1930—116.37 ACRES m or l in Cloverdale twp bounded N by land of Wledersheim E by Russian River, S by Moore and W by county road leading from Clover-	

dale to Geyserville. Healdsburg Lumber Co vs L Zanzel, E Lombar-lich, Jas Burgett, John Doe, Richard Doe, Sally Doe et al \$42.27

RELEASE OF LIENS

SONOMA COUNTY

Recorded	Amount
Sept. 12, 1930—PART LOT 3 BLK 2 Guerneville, bounded N by Main St, E and S by Johnson and W by Nicholls. N Rickett, \$220; John Rock, \$241, to Mrs A M Cobb (Antoinette M Cobb), Gus Lewis.....	\$55.33
Sept. 10, 1930—PART LOT 3 BLK 2, Guerneville, bounded on N by Main St, E and S by lands of Johnson & on W by land of Nicholls. N Rickett, \$220; John Rock, \$241, to Mrs A M Cobb (Antoinette M Cobb), Gus Lewis.....	

BUILDING CONTRACTS

SACRAMENTO COUNTY

LACQUER SPRAY BOOTH
LOCATION OMITTED; lacquer spray booth.
Owner—Southern Pacific Company.
Architect—None.
Contractor—Latourrette-Fical Co., 907 Front St., Sacramento.
Payments not given.
TOTAL COST, \$2593

BUILDING PERMITS

SACRAMENTO

RESIDENCE, 5-room, \$5000; No. 733 45th St., Sacramento; owner, R. Lazzarine, Premises; contractor, C Vanina, 2022 M St., Sacramento.
GENERAL repairs, \$3000; No. 3226 Montgomery Way; owner, Finesse Baking Co., Premises; contractor, H. W. Robertson, 2633 6th Ave., Sacramento.
RESIDENCE, 5-room, \$3800; No. 4216 U St., Sacramento; owner and contractor, John Simmons, 2521 51st St., Sacramento.
RESIDENCE, 7-room, \$10,600; 1313 44th St.; owner, A. J. Henderson, 2507 K St., Sacramento; contractor, Fred Engling.
GOLF course, miniature, \$1000; 601 Jf St.; owner and builder, Valencia & Minch, 2800 M St., Sacramento.
REPAIRS, general, \$1450; 57th and G Sts.; owner, Del Paso Rock Prod. Co., 57th and G Sts., Sacramento; contractor, Lord & Bishop.
RESIDENCE, 8-room, \$24,283; 2750 12th Ave.; owner, Sacramento Orphanage, 2750 12th St., Sacramento; contractor, Azevedo & Sacramento, 17th and Vallejo Sts., Sacramento.

COMPLETION NOTICES

SACRAMENTO COUNTY

Recorded	Accepted
Sept. 15, 1930—LOT 2 McKinley Trct except S 15 ft of said lot 2. S E Heden to whom it may concern.....	August 8, 1930
Sept. 12, 1930—LOT 9 BLK N and W 60 ft lot 10 blk 11, Teleton Sub 1. J F Watson to whom it may concern.....	September 10, 1930
Sept. 10, 1930—COUNTIES of Amador, Calaveras, Sacramento and Tuolumne. Dept of Public Works, Division of Highways to whom it may concern.....	Sept. 2, 1930

BUILDING PERMITS

FRESNO

ALTERATIONS and addition, \$3,000; Tulare and 12th Sts.; owner, Fresno City Schools, contractor, E. J

Farr & Son, 1296 Linden, Fresno.
REMODEL
 PART LOTS 17 to 20 BLK 62, Fresno;
 remodel and reconstruct building.
 Owner—Pacific Greyhound Lines, Inc.,
 9 Main St., San Francisco.
 Architect—Wieland Bros., McHenry
 Road, Modesto.
 Filed Sept. 4, '30. Dated
 Progress payments75%
 Usual 35 days..... Balance
TOTAL COST, \$33,000
 Bond, \$33,000. Sureties, Detroit Fidelity
 & Surety Co. Limit, 90 days. Spec.
 filed.

COMPLETION NOTICES

FRESNO COUNTY

Recorded	Accepted
Sept. 10, 1930—1130-34 FULTON ST, Fresno. Annie L Wallace to Fish- er & McNulty.....	Sept. 1, 1930
Sept. 11, 1930—PART LOTS 12, and 13 Blk 1, Wilson N Fresno Tract. A R Eklund to whom it may con- cern.....	September 8, 1930

LIENS FILED

FRESNO COUNTY

Recorded	Amount
Sept. 11, 1930—LOTS 1, 2, 7 & 8, NE ¼ of Sec 31, Lots 3 to 6 in Sec 30, 11-21. Don Grable vs A R Kerstetter	\$571

Construction costs in the United States during August were lower than at any time in the past two years and indications are that they have reached their bottom level for the general readjustment period, according to a statistical analysis just completed by the Associated General Contractors of America.

The average of construction costs in the principal construction centers of the country in August showed a decline for the fifth consecutive month, dropping to index number 198.4, or 3/5 of a point below July and 4.6 points below that for the corresponding period a year ago, the chart of the association shows.

Taking a line through the cost trends following the general business recessions of 1924 and 1927, when average construction costs declined 5 and 4 points, respectively, and which are closely paralleled by the present trend, Edward J. Harding, assistant general manager of the Associated General Contractors, states that any further downward movement is hardly to be expected.

Mr. Harding points out that following the general recession in 1927 construction costs gradually decreased 4 points in five months, and that also following the depression in 1924 they declined 5 points in a period of three months to the low levels of those periods. In both instances the index reached its low figure within a year from the low point in general business, which in the present cycle is believed to have been in December of last year.

The cost of construction has varied but little in the last seven years, Mr. Harding states, as the upward trend of the cost of labor in general has been just about offset by the downward trend of the cost of material. During the current year the index number for labor wages has remained stationary at 232, the charts show, while the index for basic material prices has declined 8 points in the last five months to 176.

In both the previous recessions cited wages were a factor in reduced construction costs, whereas in the present movement they have played no

part, having been maintained at their highest levels, Mr. Harding states. Material prices, however, are at a lower level than at any time in the past four years and as costs have apparently hit bottom, the present is a particularly advantageous time for economical construction, he believes.

Complete success of the program of the Associated General Contractors of America to eliminate unsound practices in the writing of surety bonds finally has been achieved and is redounding to the inestimable benefit of the industry, according to a report to be made to the executive board of the association at its fall meeting, October 6, 7 and 8, at Rye, New York.

The actual accomplishments in the program are such as to indicate that this problem has been practically solved through the agency of the Surety Division of the Affiliated Bureaus of the association, Edward J. Harding, assistant general manager, declared in commenting upon the report.

The extent of the investigation which surety companies made of applicants for bonds was a matter of issue between responsible contractors and the surety companies for some years, he pointed out, but through the repeated representations of the Associated General Contractors member companies of the Surety Association of America finally agreed to co-operate with the A. G. C. for the improvement of bond writing practices and the development of better procedure in the industry generally.

"For carrying out this work the Surety Division of the Affiliated Bureaus of the Associated General Contractors was formed and is now instrumental in promoting ethical and business-like practices governing relations between surety bond writers and contractors," he said.

"A report to this bureau of the efforts of surety agents to inject irresponsible contractors into business,

of the existence of rebate agreements between agents and contractors, of cut-rate offers on bonds, of the payment of any commissions to individuals or organizations that are not regularly engaged in the business of writing surety bonds or insurance policies as the principal means of livelihood, or any other unethical or discriminatory practice will secure prompt attention and will be corrected through the joint efforts of the Associated General Contractors and the surety companies," he said.

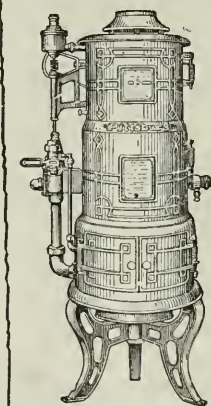
Adding nearly \$1,000,000 to its 1930 dollar volume in one sale, the Home Construction Division of Sears, Roebuck & Co. has agreed to sell 100 of its standardized dwellings to Brady, Cryan & Collieran, Inc., promoters of Massapequa Park, Long Island, says The Business Week.

The transaction reflects some marked departures from presumably ironclad policies.

To prevent ready identification as "another one of those Sears, Roebuck houses," roofs and exteriors will be finished differently than specified in catalogue, stucco side walls substituted for clapboard, brick veneer for stucco. Interior arrangements will remain substantially unchanged.

Sales resistance is further reduced through a new finance plan so that for instance the "Strathmore" home, priced at \$4995, can be bought for \$995 down. Sears, Roebuck carries a mortgage for \$7700, the promoters taking a second mortgage for \$800 on which they promise a substantial discount if cash is paid at time of settlement. Monthly payments of \$65.91 will amortize the Sears mortgage in 15 years including all interest charges.

All construction material except lighting fixtures will be furnished by Sears, Roebuck & Co., while actual erection of houses is in charge of Massapequa Construction Co., offspring of the promoters.



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Thirtieth Year, No. 39



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STATE COMPLETES STUDY OF SACTO AND SAN JOAQUIN RIVERS

Five years of study of the Sacramento and San Joaquin Rivers are covered with a bulletin issued by the State Division of Water Resources. The report covers engineering investigations, measurements of diversion and return waters, conservation, waste prevention, and the administration of stream flow.

The diversion undertook the study in the dry season of 1924 and the work was supported the first year by voluntary subscription of the persons in the territory affected. Since 1925, however, the studies have been financed by state appropriation.

The report of the run-off and water supply conditions for the years 1924 to 1928, inclusive, shows that the season of 1927 was above normal but 1924 and 1926 were especially dry. The season of 1928 was about 75 per cent of normal and compared closely with 1925 but was not marked by the difficulty to navigation experienced in that year.

There was no serious shortage of water for irrigation purposes in 1928 and salinity to the extent of 100 parts of chlorine per 100,000 parts of water did not reach higher in the delta than Twitwell, Webb, and the Jersey Islands.

A comparison of return flows in the two major drainage basins indicates that the average percentage of diversions occurring as return water in the San Joaquin River is considerably smaller than that for the Sacramento River. This is due largely, the report says, to differences in topography which allow rapid return of drainage waters to the Sacramento River, but drainage from foothill diversions in the San Joaquin Valley passes to the underground flow and may be pumped from there for reuse in irrigation. Much of the San Joaquin return water, it is stated, never reaches the river to be accounted for in the division's measurements.

A complete census of the acreages and crops irrigated in the delta region has been secured as well as information on the period of irrigation for various crops and a general soil classification of the areas. Through the information obtained in the five years of study and the increased confidence of the growers affected, the water supervisor expects to be able to initiate on short notice, in case of water shortage, schedules or plans which will provide an equitable and efficient administration of the water supply and prevent serious losses.

The Laughlin method of mechanical sewage treatment is outlined in bulletin A, published by the Filtration Equipment Corp., 350 Madison Ave., New York City.

CONTRACTOR FINED AT FRESNO ON STATE LICENSE VIOLATION

Found guilty of violating the state contractor's license law, Dave Wells was fined \$25 last Tuesday at Fresno by Police Judge J. G. Crichton. Trial of the case was in the nature of a test.

Keith Carlin, attorney for the state department of professional vocational standards, was associated with Herbert P. Briggs, of the district attorney's office, in prosecuting Wells and Arthur Pangburn, special investigator for the department, was one of the principal witnesses.

The state introduced evidence to show that Wells obtained a plastering contract on the Tranquility Union High School on a bid entered as an individual, while his only license to contract was as a partner of Jacob Stuckert. Stuckert admitted on the witness stand that he, too, entered a bid for the work sought by Wells, although both maintained that their bids were entered "for the benefits of the partnership."

In handing down his decision Judge Crichton declared that people hiring contractors and contractors sub-letting work are entitled to protection as to the responsibility of those seeking to do the work and that Wells evaded the license law by not making known to those from whom he sought work that he had no individual license.

Carlin argued that Wells had not applied for an individual license until after he "was in a jam" with the state department and three Fresno contractors testified that they accepted bids from Wells not knowing that his only license to do business was as a partner of Stuckert.

Wells submitted the low bid on the Tranquility job but later declined to do the work, according to Roy Martin, the general contractor.

ELECTRICAL GUILD OF NORTH AMERICA ORGANIZED

Organization of the Electrical Guild of North America by sixty-three firms engaged in electrical construction in nineteen cities, to "modernize and stabilize the industry, is announced in The Business Week.

The guild will promote industrial co-operation "on a scale hitherto unknown and untried" by the prevention of strikes and lockouts "through open understandings with union labor" and an active co-operation with the International Brotherhood of Electrical Workers. A research bureau is to be opened in Washington to work for the stabilization and development of the electrical construction industry and the adjustment of difficulties between employer and employee through the Council on Industrial Relations. L. K. Comstock, who heads the Council on Industrial Relations, is president of the new organization.

EMPLOYMENT PLAN OF CEMENT INTERESTS LAUDED BY EXECUTIVES

Secretary of Labor James L. Davis has voiced his strong approval of the nation-wide employment service established by the cement industry to retain its trained workers and to solve its own employment problems.

This approbation was given in a letter to Wm. M. Kinney, general manager of the Portland Cement Association, who is in charge of the clearing house through which the cement industry is endeavoring to prevent the loss of skilled employees.

"I am confident that your plan will be very helpful," writes Secretary Davis. "Because it will retain the skilled and experienced worker within the industry. Both you and I know that as soon as business picks up you will need the services of all these men. It is beneficial to the company also to retain them according to your plan."

Senator Robert F. Wagner of New York also expressed his approval of the cement industry's effort, as did Assistant Secretary of Commerce Julius Klein, and William Butterworth, president of the United States Chamber of Commerce.

Senator Wagner said: "Anything to my mind which shortens the waiting time between the loss of one job and the discovery of another promotes efficiency of the industry and the welfare of the worker."

Mr. Butterworth declared "There has long been need for efficiently operated employment bureaus to facilitate the employment of industrial personnel. Your association is to be commended for its enterprise in attempting to fulfill this need." Mr. Klein expressed the opinion "that service of this kind will react favorably to everyone concerned."

Mr. Kinney explained that cement companies which have no positions open are referring their applicants to the association, which is also notified of openings in other companies. He said that trained men are one of the greatest assets of the cement industry and that the industry wishes to keep them for its own sake, as well as for the sake of the worker.

Five days a week on all city contracts has received the approval of the San Francisco supervisors in unanimously adopting a resolution calling upon the Board of Public Works to take up the matter with all firms now doing work for the city.

The short work week was urged to lessen unemployment. Many men are now engaged on city jobs. New boulevards, sewers, street grading and sand removal, new schoolhouses and other structures are underway.

The resolution was approved by the Board of Public Works. President Timothy A. Reardon states a number of additional men could be put to work under the plan.

AMERICAN CITIES TODAY UNTHINKABLE WITHOUT TALL BUILDINGS, SAYS COL. STARRETT

(By Col. W. A. Starrett, President, Starrett Corporation)

Building is the expression of our national genius for the progressive creation of wealth, and the most characteristic, all-American thing in the world is the great metropolitan skyscraper. Those of us who are engaged in building as a profession find in an absorbing occupation, for the skyscraper has grown out of our national genius for devising the most efficient implements for the accommodation of our complicated, modern metropolitan life.

But first let me say something of how these great buildings came into being and what lies behind the scenes of one of these fascinating dramas of construction that suddenly start on our busiest corners amid the swirl of congested traffic and, as if by magic, in a few short months, grow before our very eyes into the great modern marvels of convenience and beauty that we know.

The incentive behind a skyscraper is the creation of new wealth. A centrally located piece of property, either vacant or encumbered with obsolete structures, has become so valuable that the owner finds it uneconomical and naturally desires to put the land to its most productive use. Moreover, mounting taxes and diminishing income force the consideration of a tall building of some sort. The science of realty values is here involved, but, admitting the dictum that intensively valuable metropolitan land is worth what it can be made to earn, we have the sound basis upon which the contemplated improvement is to be considered. Not always is the original owner the one who realizes or senses the potential possibilities of a piece of metropolitan property. In many cases, it is the adroit specialist in real estate values who arranges to purchase the land, and at the same time plans its immediate improvement with a new and more adequate structure.

Economic Necessity

So we see the skyscraper rising out of an economic necessity and, in this great business of building them, we see that careful analysis and wise planning are the forerunners of the building operations that so suddenly appear. The great profession of architecture, highly developed and specialized in our large cities, comes into play and we find the owner and architect and builder in conference as to the possibilities of the plot under consideration. Sketches are made—"space studies"—they are sometimes called—and from these the owner or prospective purchaser determines the nature and extent of the contemplated improvement. The expert and well-organized builder advises on the approximate cost of the improvement, for the builder is the one who knows costs and the ways and means by which the structure is to be brought into being in the shortest possible time and within the budget that the improvement demands. For now we are dealing in millions, and it must be borne in mind that, during construction, the land is earning nothing, while the capital invested is drawing interest, items that have a major bearing when the finances of the operation are being weighed. Also, the renting agent is an indispensable factor,

(Address of Col. Starrett, who as a guest speaker on the Halsey, Stuart & Co. Radio Program, September 10, 1930, over a Coast to Coast network of the National Broadcasting Company and associated stations.)

for, unless the owner has in advance a tenant for his structure, expert advice is needed on the subject of renting.

Costs Determined

From the sketches, the size, height, and general character of the building are determined, as well as design or exterior appearance. Also, if the examination of the problem is complete, the builder's budget is constructed, based upon the sketches, for, as has been said, it is the builder who knows costs and is in the best position to advise the owner on this important aspect of his problem. From the sketches, the next important development is the working drawings, and it is here that the combined forethought and experience of the architect and builder are brought to the service of the owner with such telling effect.

Foundations, all-important and of first consideration, are designed, not by rule or by guess, but by expert examination of the soil and study of the geological formations of the locality under consideration. Borings

are made and test pits sunk; examinations of engineering records of contiguous foundation structures are considered, for it must be understood that, supplementing the work of the architect, the foundation and structural engineer have been in the conferences, and it is upon their expert advice that the foundations and structural design proceed.

With the foundations determined, including consideration of the complex questions of water exclusion, deep boiler rooms, and perhaps deep safe deposit vaults, the structural frame itself is considered. And now we are launched into the whole intricacy of modern planning. Plumbing, heating, air conditioning and refrigeration, the types of construction best suited to the problem, soundproofing, types of windows, types of elevators, exterior materials and the fitting thereof to the structural frame, banking rooms and their ventilation; all of these and a hundred more considerations press for solution, and particularly, for co-ordination, and this is the work of the architect and builder working together as expert advisers of the owner who is also carrying on the plans of financing, renting, management upon completion, and a hundred other activities all germane to the problem and all interlocked with each other to the end that the property, when completed, shall justify its existence by a substantial financial return to the owner who has staked a fortune upon his judgment that the property will yield an adequate financial return.

Height Arouses Interest

We builders must have a certain amount of vision. We think we sense the trend of these great metropolitan structures. Popular imagination is always avid for our latest big

developments in terms of height, and a large building project is always announced by the number of stories, for the public imagination is always fired by the prospect of a towering height record. If the height is great or some record is to be broken, there is almost feverish public interest in the project. With pride and elation we have built them fifty, sixty, seventy stories, and now the company with which I am connected is building one eighty-five stories high, surmounted by a projected mooring mast for dirigible airships that will be nearly thirteen hundred feet above the street level. That same building will be nearly fifty per cent larger than the largest office building heretofore built—perhaps the crowning effort for years to come of our national genius for building great business structures.

Trend Toward Larger Buildings

Yet, without exaggerating the importance of height, we can vision the tendency and trend of our future building development. Skyscrapers have come to stay and are a part and parcel of our national economic life. American cities today are unthinkable without skyscrapers. Excessive heights may have been attained, but this does not arraign high buildings, and, while the value of great height may be disputed, the fact remains that the trend is toward ever larger buildings. The city block will be the limit of area, and we can safely assume that the economics of these great structures will take care of the height question. An interesting and deeply studied treatise on the problem, entitled "Skyscrapers," by two of the able authorities on the subject, W. C. Clark and J. L. Kingston, sets the economical limit at seventy-five stories. Time will tell as to the correctness of their prophecy, but we are already experiencing the whole-block structure and already the advantages have been proven. One has only to consider the average, heterogeneous city block in such cities as Chicago or New York or Detroit, with ten to twenty unrelated, independent structures, ten to twenty managements, ten to twenty heating plants, ten to twenty sets of elevators and, finally, its utter lack of intercommunication, to realize the economic waste involved. Then consider the magnificent new, whole-block structures, such as 120 Broadway, New York, the General Motors Building in Detroit, the Cleveland Union Terminal, the Carew Tower in Cincinnati, with its unified central heating and elevator service and management, and the reason for the tendency toward bigness is clear. Such properties, when properly placed and ably managed, are magnificent, comparable to the soundest railroads in stability and earning power. They are tremendous public conveniences in their acceleration of business, and play their important part, not only in the creation of sound wealth for their owners, but also in the facilitating of the creative powers and advantages of their occupants and users; for, after all, a great office building is nothing more than a great manufacturing plant where the most useful and valuable, the most creative product in the world, is turned out—

clear thinking and good ideas. Consider the great suites of offices and realize their potentialities in putting into effect the planning and thinking of the brains that direct the vast operations that emanate therefrom. Consider how every facility is made to count; how sanitation, ventilation, motorized equipment, swift elevators and, most important of all, the proximity to other great institutions of like or coordinated activities all play their part. The whole business world is, in a way, interlocked, and important executives must be of easy access to each other, even though they be in different and independent activities. Nothing has been invented to take the place of personal contacts between men important in the world of commerce, industry and finance. The time of these men and these great organizations is valued in thousands of dollars for fractions of seconds. The prime necessity of instant contacts is emphasized and served by the great modern skyscraper.

The same principles, differently applied, govern the question of large metropolitan hotels and apartments. Anything that facilitates quick and convenient personal contacts is of value in our modern scheme of things. This explains the modern American city and, more particularly, explains the skyscraper.

Skyscraper Alleviates Congestion

It is beside the question to point to traffic congestion and crowded sidewalks. The skyscraper, with its myriad conveniences, alleviates city congestion and enables the performance of busy and efficient executive life as no instrumentality devised by man has ever done before.

So we see a reason for the tendency toward ever increasing size up to the limit of city blocks, with the height question taking care of itself in various ways. And with this tendency and the proven soundness of innumerable fine modern structures in our principal cities throughout the land, we must again consider the owner and think of his problems in providing funds to make these needed improvements.

The skyscraper is very young; the first one was the Home Insurance Company building in Chicago, built in 1885, ten stories high, paid for and owned by a great insurance company. It probably cost little more than a half million dollars, both land and building, and was a stupendous event, for it revolutionized building and started the whole modern trend of city building that has made America. From that momentous and courageous beginning, we have developed into the structures of undreamed-of proportions. Ten million dollars for land and building is not uncommon. There are many of that proportion in our principal cities, and fifteen and even twenty million dollar projects cause no great surprise. At first the insurance companies supported these building ventures with cautious, conservative loans, and reluctantly followed the trend of increasing magnitude until loans of one to two millions were frequently made. Still the requirements were not met, and progress demanded a broader and more constructive vision on the part of the lender. It was here that our far-seeing investment bankers rendered what has come to be recognized as a national service. It was their vision and courage and introspection that have largely made possible the swift skyscraper development of the past

decade. No longer are building owners confined to insurance companies for their mortgage loans.

Bankers Assist in Building Development

It is probable that, through the vision of these great investment bankers, the building development of our cities is fifty years ahead of where it would have been had they not entered the field of sound metropolitan real estate financing. Not only did these bankers make the large sums necessary for huge developments available, but they brought introspection and analysis to the problem. It was they who recognized that a great office building with a diversified tenancy was in fact one of the soundest possible investments, and, with their analysis, they brought business counsel, so that we now have conservative trusteeships that regulate and administer these mortgage loans. Interest and sinking funds are promptly collected, properties are watched, and the trustees see to it that the obligations of the borrower are fulfilled. Thus we have in our large cities magnificent, sound, earning properties that pay well and fulfill their obligations. In nearly all cases the land values are increasing, for it is almost universally true that well-selected plots of land in large cities continue to increase in value from year to year.

There is no magic about this. Our recent census indicates growth of cities ranging from twenty to two hundred per cent in the past decade. It indicates that, of our total population, fifty per cent is urban, as against about thirty per cent only twenty years ago, and increasing population makes for increased realty values. It is significant that, throughout our business depressions, prime real estate fluctuates very little, and while there is no criterion comparable to the Stock Exchange by which comparisons can be made, real estate experts are agreed that there is no such decline in value of well located properties as has been observed in even the most seasoned stocks on the Stock Exchange.

Skyscraper Is A Sound Investment

We have noted the important part played by the investment banker in the stimulation of our skyscraper developments. This, of course, means that, in fact, the public has supported the whole movement and will continue to support it, because the leadership of these bankers is sound. The occasional collapse of some improper financial structure is no more an indictment of the principle of mortgage bonds, than an occasional bank failure is an indictment of our banking system. The lesson to be drawn by an occasional failure in a building enterprise is the same as it is in any other business. Be guided by the sound reputable bankers, not by the rosy promises of larger returns from concerns that have neither history nor reputation. The building of well considered skyscrapers is one of the soundest of our fundamental industries.

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SUSPENDS OPERATIONS

The C. K. Spaulding Logging Company's mill at Salem, Ore., suspended operations last Monday and will remain closed until February of next year. Fifty men will be out of work as a result of the move. Plans will be delayed until October, after which the entire plant will close. Condition of the lumber market and lack of timber supplies were given as the reason for the shut-down.

NEW BUILDING MATERIAL IS SOUGHT BY SCIENCE

Plans to develop a new kind of building material that does not now exist are under way at the Massachusetts Institute of Technology.

These plans are the answer of science to the fire hazard, to the high cost of homes and the high expense of repairs. The aim is to put better homes in reach of every one and to improve building generally.

Research has started under direction of Ross F. Tucker, professor of building construction.

"We do not know yet just how it will be done," he says, "but to find out how and to do it is one of the things this school is for. The new materials may be of gypsum or cement, or some entirely new materials.

"They may, among other things, use the wood bar instead of steel for reinforcement of concrete, to save weight. They must be something light enough so that two men can set them in place."

On Professor Tucker's desk lies an object resembling a large, white sponge. It is not much heavier than a sponge but nearly as hard as stone.

"This is cement that has been aerated," he says. "It illustrates possibilities. Chemicals caused this cement to 'rise,' as bread dough rises from effects of yeast. The compound gave off hydrogen, and expanded the cement into a structure made of thousands of airtight cells, resulting in light, strong material.

"Man has improved many necessities, but for 50 years dwellings have been made of the same materials, and by the same hand labor. No way has yet been found to apply the methods of quantity production in construction of the modern home.

"We still use many of the tools and build by the methods of our forefathers, yet we spend about six billions of dollars a year for homes.

"We seek to make dwellings that can be erected by unskilled labor, be fire resisting, more durable, insulated from cold, and yet come within limits of present homeowners' incomes."

TITLE COMPANIES CO-OPERATE WITH MORTGAGE BANKER

Title insurance, survey, escrow and tax service are placed at the disposal of the mortgage banker by the modern title company, said James E. Sheridan, vice-president, Union Title & Guaranty Company, Detroit, in an address delivered before the Mortgage Bankers Association at Detroit.

"With title insurance, there is no question about title, no possibility of delay due to title. Unquestionably, title insurance has more than done its part in establishing the liquidity of mortgage paper. In these troublesome days with their unusual amounts of foreclosures, it must be satisfying to the mortgagee to know that he now holds a title which any later buyer is bound to accept, that he may warrant the title to a new buyer, knowing that the assets of a title company are behind his title for his protection."

More and more insurance companies and other investors are using the escrow service, tax and foreclosure services of the modern title company to relieve their own organizations of the troublesome details connected with mortgage loans, Sheridan said.

THE OBSERVER

What He Hears and Sees on His Rounds

The Merced Irrigation District is asking for bids to furnish four thousand barrels of cement "manufactured in the state of California." This is in accordance with a plan advanced by the California State Chamber of Commerce to purchase local materials on construction projects where "service, quality and price are equal."

Governor Franklin D. Roosevelt, of New York State, in a letter to Frederick Stuart Greene, superintendent of public works, ordered a definite warning to contractors on State projects that they must comply with the law giving employment to New York State citizens. "I want to ask you once more to repeat this notice in very definite terms," Governor Roosevelt wrote, "as I have pointed out before the duty of the State government is primarily to its own citizens and while we sympathize with unemployment conditions in other parts of the country, it is only right that we should take care of our own citizens first."

At a recent meeting of the Building Division of the Southern California Chapter, Associated General Contractors, considerable time was given to the discussion of the ordinances in Los Angeles and other Southern California cities requiring the employment of resident mechanics and laborers on all public works except when none were available. Attention was called to the fact that observance of these ordinances was being very strictly enforced and contractors were warned to protect themselves if they would avoid the penalty. The contractors on the Los Angeles Coliseum addition are requiring all men employed on that job to sign statements as to their residence and citizenship and it was suggested that other public works contractors should do likewise. The law does not apply to superintendents and foremen.

According to a recent announcement by Mrs. Debbie E. Allen, city clerk, the city council of Whittier has adopted regulations requiring that contractors submitting bids on cash jobs furnish either a certified check or a bond by an authorized solvent surety company. Heretofore, personal surety bonds have been permitted. Bonds on street and other improvement work, for which proceedings have been taken under state improvement acts, will, of course, continue to conform to the regulations of such acts. In the latter case, either certified check or personal sureties are permissible.

Allan C. Rush, 86, former San Franciscan and more recently of Los Angeles, has appealed to the district attorney of Los Angeles, to aid in the search for three alleged bunco men who were said to have bilked him of an asserted congressional franchise and plans made 22 years ago for a bridge to span San Francisco bay from Rincon Hill to Oakland.

Rush said he completed plans for the five and one-half mile span in 1908 and interested the late James J. Hill, railroad magnate, in a financing plan to raise \$60,000,000 for construction work. Soon thereafter, he said, a bill was passed by congress giving him a franchise for the bridge. Then came the world war, at which

time the construction program was abandoned.

Rush alleged three men approached him several weeks ago and obtained the models, plans and franchise for the bridge. Since then some of the plans and models have been returned by mail, but Rush said the franchise papers still are missing. Rush said he valued the papers at \$30,000.

Grigsby-Grunow's Majestic electric refrigerator to be placed on the market in the immediate future, is said to look like a radio—somewhat higher, thicker and white. Where the dial button of a radio would be is a similar cold-control button. Refrigerator space is 5 cubic feet—84 ice cubes. Insulation is 3 inches thick. Sulphur dioxide is used as refrigerant. The box sits about 5 inches off the floor, on legs. The refrigerator will sell for about \$150. Dealers' commission will be higher than the 20 to 30% now usually paid, but somewhat under 40%.

R. M. Alvord, chairman of the Industrial Committee of the California State Chamber of Commerce, at a meeting of the district council of that body last Friday, announced that a campaign was being launched asking the cooperation of county boards of supervisors and city councils to give consideration in all construction work to all California industries, upon service, quality and price being equal, in line with the purchasing policy of the State Chamber of Commerce. He further stated that the committee has a survey of the industrial water situation in the Bay region under way, in an effort to determine how important cost of industrial water is in the program of industrial development.

Concrete paving contractors who use batch trucks often find it cheaper to hire them than own them, says Constructo Methods. When hired, the more common practice is to pay the truck owners on a piece-work basis: so much a batch, so much a batch-mile, or so much a trip. This method causes much rivalry among the truck drivers. Often they race one another to the plant; sometimes they get out of line at the mixer in an effort to cut in ahead of competitors. Such action makes rivalry bitter, cause reckless driving and frequently affect job progress adversely. Payment at an hourly rate seems less profitable to the contractor, by comparison, until one considers the advantages to be gained. It is possible to get good trucks and reputable truck owners to haul batches in most places today. These men and these machines are ready to do fast and honest hauling. By hiring at an hourly rate, the contractor obtains reliable service and the assurance of order and co-operation on the job.

Paul J. Moranti of New York, the man who put Wall street on stilts and carved a half-mile ditch through the world's greatest financial section without disturbing the powder on a stenographer's nose, is seeking new holes to dig.

He looks forward today to his next big job—building a railroad tunnel under the Mediterranean Sea to connect Spain with Morocco. The Spanish government has appointed him consulting engineer for the project and he will leave soon to make borings off Gibraltar.

Moranti's task of constructing a subway excavation to link the lines of the Brooklyn-Manhattan Transit System is practically completed—one year ahead of schedule. Seven hundred men contributed to the work and it will cost the city \$5,735,149.

In executing a job that experts said could not be done without suspending operations on the markets, Moranti jacked up thirty-five skyscrapers, shifted a solid maze of electric conduits, gas, water and steam pipes; by-passed the most valuable network of cables in the world; removed a brick sewer, sank his supports in quicksand, dumped the excavated mud twelve miles at sea and fought every step of the way against dense traffic and swarms of pedestrians on the narrow streets in the city.

And now Moranti proposes to tackle a tougher job—the railroad tunnel under the Mediterranean Sea.

It is generally understood that all construction work incidental to Boulder Dam, now known officially as Hoover Dam, will be done by contract.

This means that the larger number of men engaged on the work will be employed directly by the construction contractors, including practically all those in positions such as laborer, helper, cook, steward, skilled mechanic, storehouseman, timekeeper, cost-keeper, truck driver, foreman, construction superintendent, etc.

If done by contract, the contractors, and not the United States, will purchase and furnish all construction equipment required on the work.

Materials required, such as cement, lumber, (except form lumber), reinforcing steel, etc., and permanent operating equipment such as pipe, outlet gates, valves, etc., will be purchased by the United States, after appropriate advertisement.

"There has been a sharp increase in building construction since the middle of August," writes J. C. Royle from Washington, D. C. "This has been entirely confined to public works and commercial and industrial projects. But it is evident that it is going to be some little time before residential construction catches up with the procession.

"The home building industry is paying for individuality and this is a super-charge, according to bankers and contractors. In time of active prosperity, owners, builders and bankers are not loath to meet this charge. But in the times of business depression, none can afford it. This is one of the things which has checked building.

"Prices of building materials have receded and it should be an advantageous time to build, from the commodity market viewpoint. Many forms of structural steel are at low figures."

LUMBER FIRM SUED

The estate of the late J. Gordon Mills, attorney of Inglewood, killed when a trailer truck crashed into his automobile last July, has filed suit in Los Angeles for \$100,000 damage against the Rossman Bros. Lumber Company of Wilmington. The action charged negligence on the part of the lumber firm.

ALONG THE LINE

Henry E. Robertson, formerly Pacific coast manager for Virginia Bridge & Iron Co., is now with the Union Engineering Company, industrial engineers and contractors, Huntington Park.

Bruce L. Burlingame is now joint sales representative of the Redwood Manufacturers Co. and the Santa Fe Lumber Co., in Southern California, with headquarters at 809 Pacific Elec. Bldg., Los Angeles.

George Hogan, prominent vineyardist, brother of Walter E. Hogan, city manager of Stockton, died in a Stockton hospital Sept. 23. He had been ill several weeks. He was a native of California and spent his entire life in the Lodi district.

James M. McCurdy, 63, retired civil engineer, for 35 years associated with the Southern Pacific Railroad, died at his home in Palo Alto Sept. 19. McCurdy was born in Rockbridge, Va., and had been a resident of Palo Alto for 25 years. His widow and a nephew survive.

Ernest H. Rogers, city building inspector of Alameda, has been authorized by the Alameda city council to attend the ninth annual meeting of the Pacific Coast Building Officials' Conference, to be held in Long Beach, Sept. 29 to Oct. 4.

Burton Lowther, Denver engineer, has been appointed consulting hydraulic and sanitary engineer for the government town to be constructed near the site of the Hoover-Boulder Dam. The appointment of Lowther was made by Secretary of the Interior Raymond F. Walter, chief engineer of the United States Reclamation Service. Entire charge of the water supply and sewage disposal and sanitation of the new "ideal" town will be placed in Lowther's hands.

C. C. Kennedy, San Francisco consulting engineer is in Phoenix, Ariz., to confer with Franklin D. Lane, mayor, and Walter Jamieson, city engineer, on the proposed water and sewer program under the \$3,422,000 bond issue, recently authorized. The water system work will be supervised by City Engineer Jamieson and the sewer work construction by Holmquist and Maddock, consulting engineers of Phoenix, Mr. Kennedy acting in an advisory capacity.

Wm. F. Connor of Los Angeles, has been appointed secretary of the River-side Lumbermen's Club to succeed W. S. Elton who resigned to enter the hardware business at San Francisco. Connor is a retail lumberman and has had secretarial experience in the lumber business in the state of Washington.

SEEK REPRESENTATION

Oakland has been asked to send official representatives to the annual convention of the Municipal Plumbing Inspectors' Association of California which will be held at Fresno, December 5. The matter has been referred to Commissioner of Public Health and Safety for recommendation.

HERE — THERE —
EVERYWHERE

The Public Buildings & Lands Committee of the San Francisco Board of Supervisors has approved an appropriation of \$7500 to finance San Francisco's share of the cost of editing and publishing a new code of building laws.

First reading of an ordinance, recommended by the Reno electrical arbitration board, regulating the type of metal conduits in the city, has been given first reading by the Reno, Nevada, city council.

Uncle Sam is going to build a new post office in Carmel-By-The-Sea, down in Monterey County. The folks in Carmel hope that when it is built it will conform with Carmel's ideals of architecture and add distinction to the village.

M. T. Sturtevant and William C. Spencer, deputy building inspectors, will represent the city of Oakland at the ninth annual meeting of the Pacific Coast Building Officials' Conference, to be held in Long Beach, Sept. 29 to Oct. 4.

Local labor will be employed on civic projects wherever possible under a resolution adopted by the Monterey city council at the request of the Monterey Building Trades Council. The resolution states that the present economic depression makes it necessary for the welfare of Monterey that local labor be given employment wherever possible.

The San Francisco Board of Supervisors has adopted an ordinance fixing a \$25 quarterly license fee for miniature golf courses.

During the first 17 days of September the Los Angeles city building department issued 1864 permits with an estimated valuation of \$3,916,213. For the corresponding period in September a year ago the number of permits issued was 1488 and the estimated valuation was \$2,915,249, while for the first 17 days of August, 1930, the number of permits issued was 1425 and the estimated valuation was \$2,607,048. Los Angeles' building total for the current year up to and including September 17 was \$35,965,317 as compared with \$70,440,753 for the corresponding period last year.

Albert C. White of the City Engineering Department, and E. Curtis Neal of the Building Permit Department of the City of Fresno, will represent that city at the Ninth Annual meeting of the Pacific Coast Building Officials' Conference to be held in Long Beach, September 29 to October 4, it is announced by C. C. Jarman, chief building inspector of Fresno.

At the annual election of officers of the State Association of Architects, San Diego Section, Herbert J. Mann was elected president and district advisor; Eugene Hoffman, vice-president, and Robert J. Curtis, secretary and treasurer. The state association has replaced the former San Diego Architectural Association.

There will be four official languages used at the Sixth International Road Congress, Washington, October 6 to 11. They are: French, German, English and Spanish.

TRADE LITERATURE

Catalog 80 of the Western Wheeled Scraper Co., Aurora, Ill., describes in 144 pages a very extensive line of grading tools and machines, giving special prominence to dump cars of both door-door and lift-door types. The catalog is very complete, containing many excellent illustrations.

"What Research Has Developed for Pipe Coating" is briefly discussed in a leaflet issued by the Ohio Varnish Co., Cleveland, Ohio.

The spheroidal design of oil storage tanks with a flattened bottom, designed to use metal with maximum economy, is fully described in a 10-page illustrated booklet issued by the Chicago Bridge & Iron Works, Chicago, Ill.

Iron and steel paint protection is the subject considered in "Master Specifications," issued by the Joseph Dixon Crucible Co., Jersey City, N. J. The booklet is designed to simplify the problem of paint selection and to assist the specification writer.

Blawforms for general concrete construction are described and illustrated in great variety in an attractive 112-page illustrated publication of the Blaw-Knox Co., Pittsburgh, Pa. Separate chapters are devoted to engineering structures of many kinds, including conduits, tunnels, walls, piers, dams, subways, bridges and roads.

HOME BUILDING CAMPAIGN FOR
ST. LOUIS

A campaign to disseminate information to the public about the construction of homes so that they may be able to gauge the relative value of construction materials which go into the building and avoid the danger from unscrupulous contractors who would use inferior materials has been launched by the Construction Industries Division of the Better Business Bureau of St. Louis.

The co-operation in the campaign of building and loan companies, mortgage bankers, contractors and architects was pledged at a meeting between representatives of these groups and the construction division.

The Construction Industries Division of the Better Business Bureau of St. Louis has issued a booklet, "Taking the Mystery Out of Building Construction" the purpose of which is to guide the public intending to buy or build a home. The booklet urges that the prospective home owner should "investigate before he invests" and reviews the points about which he should satisfy himself before entering into the purchase of a home. It gives suggestions about the purchase of ground on which to build the house, planning the house, selection of materials, choosing responsible architects and contractors and financing.

PLUMBING FIXTURE PRICES

August wholesale prices of standard plumbing fixtures for a six-room house, as collected by the U. S. Department of Commerce from reports of 12 representative manufacturers and wholesalers, were \$98.32, as compared with \$98.27 in July and \$98.81 in August, 1929.

TRADE NOTES

Adam H. Moffatt will operate from 1215-1245 Harrison St., San Francisco, under the firm name of Bay City Iron Works.

Holbrook, Merrill & Stetson, Inc., Ltd., of San Francisco, will establish a branch office at 311 East Weber Ave., Stockton. The branch will be in charge of J. D. Hubbard for twelve years employed by the company in Sacramento. The Stockton branch will be sales headquarters for San Joaquin, Calaveras and Tuolumne counties, the northern half of Stanislaus and a portion of Amador County.

Plintkote Co., manufacturers of asphalt shingles, roofings and emulsions, has entered the Pacific Coast territory and will establish headquarters in San Francisco. It is announced by R. L. Perry, San Francisco manager for the concern. Warehouses and offices are being established in San Francisco, Los Angeles, Portland and Seattle. San Francisco will be made the company's Pacific export center.

Pioneer Brass Works, recently organized, has opened shop and office quarters at 159 Fourteenth Street and will specialize in ornamental bronze, brass and aluminum casting. A business is being built up with the building hardware concerns in the Central and Northern California district.

LOS ANGELES WATER BONDS BRING PREMIUM

Sale of \$5,000,000 Los Angeles waterworks 4½ per cent bonds due 1931 to 1970 was made recently to a syndicate headed by Eldredge and Company for a premium of \$43,850.

Included in the winning syndicate were Anglo London Paris Co., National Bankitaly Co., First Detroit Co. of San Francisco, and First National Bank of New York.

There were five bids filed by syndicates formed by twice that number of banking and investment banking houses. R. H. Moulton & Co. and associates offered a premium of \$42,569; Guaranty Co. of New York associated with American Investment Co., offered a premium of \$31,950; Chase Securities Corporation and associates, \$27,551; National City Co. syndicate, \$11,495.

SEEK CHANGES IN BUILDING ORDINANCE

Monterey's building ordinance was attacked by J. C. Anthony at the last meeting of the city council. Anthony seeks an amendment to the ordinances governing the construction foundations, thickness of chimneys and the use of metal lath. The present laws with regards to these items of construction, Anthony declares, cause needless expense in the construction of small homes.

The council declined to take immediate action, saying that a report from a committee of contractors which is investigating the ordinance will be made in a few weeks and that the sections against which Anthony complained would be considered by the committee.

An independent committee, comprised of Anthony, John Taunfer, Sam Hooke and Ernest Sundberg, all local contractors, was appointed by Mayor Hudson to investigate the three sections and report to the central committee.

ENGINEERING SOCIETIES EMPLOYMENT SERVICE

Further information regarding positions listed in this column is obtainable from Newton D. Cook, Room 715, 57 Post Street, San Francisco. (Phone Sutter 1684).

R-3220-S ENGINEER, college graduate in mechanical, chemical or mining preferred. Must not be over 35 years and with at least five years' experience designing and estimating industrial plant equipment. Salary \$250-275 mo. Permanent. Location, Bay Region, and only local applicants can be considered for interview.

R-3333-S CHEMICAL ENGINEER, graduate, with 1-3 years' experience, for research work on development of plant equipment. Excellent opportunity for man with thorough chemical engineering training and with more than average ability. Salary \$150-175 mo. to start. Apply by letter. Location, Southern California.

R-3335-S ENGINEER, preferably mechanical, 25-35 years old, for cost analysis and time study work. Experience should include both shop and outside construction estimating and preferably some time study work. Salary about \$200 month to start. Apply by letter. Location, Bay Region.

R-3324-S CHIEF DRAFTSMAN, preferably not over 40, for large engineering drafting room. Will not be responsible for design but applicant should be a university graduate with wide experience. Must know how to handle men and get results thru leadership. Salary depends upon ability. Apply by letter. Location, Northern California.

K-318-W-1461-C-S ENGINEER specialist in forestry engineering, with long experience in logging operation, with knowledge of ice roads and construction of same, horse and mechanical transfer, construction of chutes, flumes and logging railroads. Should be capable of planning the felling of trees in a mountainous region, as well as the handling and transportation of the logs to the sawmills. Work will be on an area of about 1,500,000 acres. Apply by letter. Location, foreign.

K-297-W-1283-C-S ENGINEER, young either employed now or recently employed on design of hydraulic equipment particularly centrifugal pumps. Apply by letter, giving all details of experience, salary, etc. Location, Midwest.

FIVE PROPOSALS FOR S. F. INCINERATOR PLANT

Five different procedures for the receipt of bids for a new incinerator to replace the present antiquated plant at Fifteenth and De Haro Streets will be proposed to the Board of Supervisors by its Health Committee next Monday.

Through the Board of Public Works would be called bids:

1—For construction on plans prepared by the city engineer, and with city funds.

2—For construction by a manufacturer on his own plans, but with city funds.

The Supervisors themselves would receive bids for the awarding of a franchise:

1—For construction by successful bidder on city engineer's plans.

2—For construction on bidder's own plans.

3—For private operation of plant to be built by bond issue and owned by the city, but leased to bidder.

FOR FAILURE TO PAY MUNICIPAL LICENSE TAX

While it is well settled that a law violates the United States Constitution which specifies a penalty of imprisonment for persons who fail to pay their debts, yet it also is settled that a person who refuses to pay an occupational or a license tax may be imprisoned without violation of the Constitution, says The Constructor, official publication of the Associated General Contractors of America.

For example, in Marler, 282 Pac. 353, a municipality enacted an ordinance providing for a tax of 25 dollars upon the occupation of a building contractor within the city, and also provides that any contractor who fails to obtain a license is guilty of a misdemeanor.

A contractor refused to pay the license and he was sentenced to jail. He appealed to the court on the contention that the law is invalid. However, the court held the license valid and refused to grant an order releasing the contractor from jail, saying: "The rule is well settled that, when a municipality had authority to enforce its ordinances by appropriate fines, imprisonment or other penalties, it may use its penal power to insure the collection of its license fees, by making it an offense to engage in a particular occupation without a license. A prosecution under such an ordinance is not a proceeding on the part of the city to collect the amount of license required by the ordinance, but it is instituted to recover a fine for breach of it committed by the defendant in practicing his occupation without such license, and although he may be subjected to the payment of the fine, he will not thereby be entitled to the license. . . In other words, the contractor's incarceration was occasioned, not for debt, but for violation of a city ordinance, which provided a penalty for persons who engaged in certain occupations without privilege from the municipal corporation."

OMIT SEMI-ANNUAL STOCK DIVIDEND

Gladding, McBean & Co. directors on Sept. 18 omitted the regular 2 per cent semi-annual stock dividend due at this time. The regular quarterly cash dividend of 75c was declared, payable Oct. 1 to stock of record Sept. 20. Atholl McBean, president of the company, issued the following statement:

"The board of directors of Gladding, McBean & Co. deems it prudent at this time to discontinue the extra stock dividend."

ASPHALT PAVING CONFERENCE SET FOR DECEMBER

Salvaging of old macadam and gravel roads and the building of farm-to-market roads as a measure of farm relief, as an aid to unemployment, as a means of increasing the amount of freight handled by the railroads of the country and as affording relief for traffic congestion on main highways, will be the keynote of the Ninth Annual Asphalt Paving Conference to be held at the Hotel Peabody, Memphis, Tenn., Dec. 1 to 5, 1930. The conference, as usual, will be under the auspices of The Asphalt Institute, J. E. Pennybacker, managing director, and the Association of Asphalt Paving Technologists, C. A. Mullen, secretary.

TIME FOR FILING MECHANICS' LIEN LEGALLY EXTENDED

The law is well settled that the time for filing a mechanic's lien dates from the day the last labor or material was supplied on the job, providing the act of furnishing the labor or material was not done for the purpose of extending the lien. So held the higher court in *American Plumbing & Steam Supply Co. v. Alavicku*, 233 Pac. 917, says The Constructor.

Here an owner agreed to pay a contractor \$1,300 to install a heating plant in an old dwelling. The system proved defective and the contractor made several efforts to remedy the defects. Later the contractor was compelled to file a mechanic's lien to obtain payment.

The owner attempted to avoid the lien by proving that the contractor had neglected to file the lien within the 90 days statutory period after the heating system was installed.

The contractor argued that his lien should be valid because he had filed it within the statutory period after he had succeeded in remedying the defects. In holding the contractor entitled to a lien, the court said:

"It is evident that plaintiff (contractor) continued in good faith to work upon the heating plant in an endeavor to place the same in such condition that it would do its work satisfactorily to the defendant. The claim of lien was filed within 90 days from the date plaintiff so ceased to work upon the heating plant, and consequently was filed in time. It did not appear that the furnishing of labor and material was deferred fraudulently for the mere purpose of extending the time in which a lien could be filed, but that the time which elapsed was a necessary element of the performance of the contract."

Also, it is important to observe the decision of the higher court in the case of *Rieflin v. Grafton*, 115 P. 851. Here it was disclosed that the furnishing of material by the contractor ceased June 2, August 18 following, the contractor furnished two or three panes of glass to replace defective glass which he had previously delivered. October 14, following, he filed a notice of claim of lien.

The lower court denied the lien, being of the opinion that the same should have been filed within 90 days from June 2 and stated that it appeared that the contractor had supplied the extra glass merely to extend the lien.

However, the higher court held that, as the small delivery on August 18 was made upon the demand of one of the owners of the property for the purpose of correcting defects which he claimed existed in the material theretofore furnished by the contractor, the material was not furnished for the purpose of prolonging the time for filing a lien or renewing the right to file a lien which had been lost by lapse of time, and that the period for asserting a lien against the property began to run from August 18 instead of from June 2.

BUILDING DECLINES, MATERIAL COSTS ON DOWNWARD TREND

Official reports made to S. W. Straus & Co. from 555 leading cities and towns in all parts of the United States indicate that the decline in building operations has not yet run its full course. Building reports issued in these places in August totalled \$169,790,888, compared with \$188,937,604 in July and \$255,082,378 in August last year. The loss from the preceding month was 15% and from the

corresponding month of the preceding year was 37%.

It is to be borne in mind that these reports cover only such types of construction as those for which municipal building permits are required. The bulk of this work, therefore, is represented by private buildings in urban centers.

The Straus index of building permits after adjustments for seasonal and trend factors declined to 15.4% below normal in August. This compares unfavorably with the July index which was 13.1% below normal. The August, 1929, index was only 3.4% below normal. Since April the Straus index has been trending upward except for a slight decline in June and the present somewhat more substantial decline indicated for August.

The group of twenty-five cities reporting the largest volume of permits issued in August revealed a total for the month of \$92,193,747, a loss of 24% from August last year when the volume was \$120,627,682, and of 10% from July when the total was \$102,625,020. New York lost 33% from August, 1929, and Chicago 58%.

Unemployment in the building trades for the month of August as reported by the American Federation of Labor was 39%. Although there have been no reductions in published wage rates, a trade journal reported that in one city contractors are able to employ building workers at rates considerably below the union scale. Reports of increased efficiency are widespread. This condition is due to increasing unemployment in the building trades.

Though few price changes were reported for building materials in the month of August the situation is not good from the standpoint of most manufacturers. For example 33% of the plants reporting to the Common Brick Manufacturers Association are not operating. The lumber situation continues unfavorable due to difficulty in adjusting production to demand; this situation is reflected in numerous price declines for this commodity.

All-commodity prices and building material prices are continuing the decline begun in the latter part of 1929. How long this decline will continue is impossible to ascertain; there are evidences, however, that certain commodity prices have reached resistance levels. The declines in material prices, and consequently in building costs, should act as a stimulant to building activity.

The twelve leading states in building activities for the month of August, 1930, follow:

No. of Cities	Volume of Permits
1. New York.....47	\$38,481,989
2. California.....62	16,452,944
3. Illinois.....52	12,231,529
4. Ohio.....39	10,924,015
5. Pennsylvania.....29	10,887,159
6. Connecticut.....20	9,558,680
7. Michigan.....22	7,596,664
8. Texas.....21	6,952,647
9. Massachusetts.....31	6,603,264
10. New Jersey.....37	4,481,737
11. Wisconsin.....19	3,195,623
12. Indiana.....19	2,686,694

PASADENA ROOFERS ORGANIZE

Roofing contractors of Pasadena have formed a temporary organization with Fred P. Clyde, president; John W. Lytle, vice-president; and John J. Horner, secretary. A committee, composed of Edward Massie, C. G. Bell and W. G. Brunfield, was appointed to draft a constitution and by-laws.

CONTRACTORS APPROVE STANDARD SIZE FOR COMMON BRICK

The Building Division of the Southern California Chapter, Associated General Contractors of America, has voted approval of the standard size for common brick as proposed by the Clay Products Institute of California, 2 1/2x3 1/2x8 inches, says the Southwest Builder and Contractor.

With a half-inch mortar joint, this size would allow four courses of brick to a foot and would do away with the quarter-inch fractions. This standard does not apply to face brick. The movement to establish a standard size for common brick is backed by the State Chamber of Commerce. With the cooperation of manufacturers, which is now being sought, it is hoped to make the new standard effective Jan. 1, 1931.

ROCK CRUSHER COLLAPSE INJURES TWO

Two men employed by Tieslau Brothers, highway contractors of Berkeley, on a road project in the Lassen Volcanic National Park, were seriously injured last Tuesday when the rock crusher of the firm's Lake Helen crushing plant collapsed. About 100 tons of rock were stored in the bunkers at the time of the collapse.

TRADE PRACTICES FOR THE LUMBER INDUSTRY

Agreement on a definite code of trade practices in the lumber industry is being sought by the National Lumber Manufacturers' Association and joint conferences of manufacturers, wholesalers and retailers are being held in an effort to arrive at terms which will be satisfactory to all groups. A committee of the association has been appointed to work on the rules and has drawn up a tentative draft of practices which it is felt must be considered.

The draft includes such matters as: Misbranding, confusion of grades, false invoicing, rebates, discrimination in credits, misuse of grading tolerance allowance, written orders, price quotation, distribution of prices and stock lists, inspection, encouragement of use of grade-marked lumber, arbitration, terms of sale, dumping, distribution of lumber. The matter of distribution through wholesalers and retailers will be considered by the committee as well as means by which transit car and cargo dumping may be eliminated, the establishment of firm price policies and recommended general use of "car cards" as the means of eliminating fraud, false invoicing and misrepresentation by all branches of the industry.

UNVEIL SAFETY TROPHY AT REDWOOD CITY

In the presence of officials and employees of the Pacific Portland Cement Company, A. J. R. Curtiss of Chicago, officiated last Wednesday at the unveiling of a stone monument awarded by the Portland Cement Association to the Redwood City plant in recognition of its perfect safety record during 1929, during which safety measures prevented any accident or loss of time.

The safety trophy for which the Redwood City plant was one of only 99 plants throughout the United States to qualify, is a large plaque of polished stone, eight feet in height, mounted on a base eight by three feet. It depicts two figures in bas-relief holding a torch to the inscription, "Safety Follows Wisdom."

Governmental studies indicate that it costs an average automobile approximately 2.06 cents more per mile to drive on an earth road than on a hard-surfaced road.

Building News Section

APARTMENTS

Preparing Working Drawings.

APARTMENTS Cost, \$60,000
SAN FRANCISCO. Buchanan St. near Washington St.
Three-story frame and stucco apts. with brick basement (12 3-room apts.)

Owner and Builder—T. I. Strand, 822 26th Avenue.
Plans by Lawrence Ebbets, 320 Fulton Street.

Will be modernistic type of architecture. Sub-bids will be taken in one week.

Plans Completed.
APARTMENTS Cost, \$525,000
LOS ANGELES, Cal. No. 202 N. Argyle Avenue.

Eight-story Class A reinforced concrete apartments (138x152 feet).
Owner—Judge Douglas L. Edmonds, 407 N. Orange Drive, Los Angeles
Architect—Paul Kingsbury and T. P. Barber, Union Insurance Bldg., Los Angeles.

Contract Awarded.
APARTMENTS Cost, \$200,000
LOS ANGELES, Cal. S. G. mercy Place.

Seven-story Class A reinforced concrete apartments.
Owner—Harry Bergman.
Architect—Fred Sward, Delta Bldg., Los Angeles.

Contractor—Harris-Walsh Constr. Co., I. W. Hellman Bldg., Los Angeles

Contract Awarded.
APARTMENTS Cost, \$16,000
SAN FRANCISCO. W. Divisadero St. S. Lombard St.

Three-story and basement frame and stucco apartments (6 apts.)
Owner—P. Martinet.
Architect—G. A. Berger, 309 Valencia St., San Francisco.
Contractor—T. I. Strand, 471 Colon Ave., San Francisco.

Plans Being Completed.
APARTMENTS Cost, \$150,000
OAKLAND, Alameda Co., Cal. Crescent Ave. near Santa Clara.

Three-story frame and stucco apartments with class C concrete garage.

Owner and Builder—R. E. Mayer, 1129 McKinley St., Oakland.

Architect—Douglas Stone, Gt. Western Power Bldg., Oakland.
Segregated bids will be taken within one week.

Structural Steel Bids Wanted.
APARTMENTS Cost, \$150,000
SAN FRANCISCO. Pacific Ave. and Baker St.

Three-story steel frame and concrete semi-fireproof apartments (six 6-room apts.)

Owner and Builder—W. R. Voorhies, Inc., 369 Pine St.
Plans by A. D. Janssen, 369 Pine St.

Contract Awarded.
APARTMENTS Cost, \$215,000
LOS ANGELES, Cal. 5542 Fernwood Avenue.

Seven-story class A reinforced concrete apts. (150 rooms; 50x148-ft.).
Owner—Wm. F. Normandy, 622 Subway Terminal Bldg., Los Angeles.

Architect—Herbert L. Booth, Fay Bldg., Los Angeles.
Contractor—Haris-Bowers Co., I. W. Hellman Bldg., Los Angeles.

Plans Being Prepared.
APARTMENTS Cost, \$—
RICHMOND, Contra Costa Co., Cal. Twenty-third St. Bet. Clinton and Grant Avenues.
Two-story frame and concrete apartments and stores.
Owner—John Ambrosio.
Architect—James Narbett, 474 31st St., Richmond.

Owner Will Erect By Day Work.
APARTMENTS Cost, \$120,000
SEATTLE, Wash. Third Ave. West. Brick veneer (45) apts. (2 & 3 rooms)
Owner—W. A. Grattias, 8257 15th Ave. NE, Seattle.
Architect—W. H. Whitley, White-Henry-Stuart Bldg., Seattle.

Plans Being Completed.
APARTMENTS Cost, \$10,000
BELMONT, San Mateo Co., Cal. Two-story and basement frame and stucco apartments.
Owner—Mrs. Talbee.
Plans by Carl Schuetz, 1125 The Highway, Redwood City.
Segregated bids will be taken in one week.

Segregated Bids To Be Taken In One Week.
APARTMENTS Cost, \$40,000
SAN MATEO, San Mateo Co., Calif. Bayview Heights.
Two-story and basement frame and stucco apartments.
Owner—E. I. Warren, Los Angeles.
Plans by Carl Schuetz, 1125 The Highway, Redwood City.

To Be Done By Day's Work By Owner
APARTMENTS Cost, \$15,000
SAN FRANCISCO. SW San Bruno Ave. and Burrows.
Three-story and basement frame and stucco apartments and stores (10 apts.)
Owner and Builder—B. Stone, 1738 12th Ave., San Francisco.
Architect—None.

Bids To Be Taken Sept. 29.
APARTMENTS Cost, \$15,000
BURLINGAME, San Mateo Co., Cal.

A Demonstration of the SKILSAW PORTABLE ELECTRIC HAND SAW

Will solve your cutting problems.
(Four Models, 1/2 to 1 h. p.)

**ELECTRIC HAMMERS
ELECTRIC DRILLS
GRINDERS, BUFFERS**

PETER H. NELSON

Labor Saving Portable Electric Tools.

1248 Mission St. UNDERHILL
San Francisco 7662

Two-story frame and stucco apartments (2 4-room apts.)
Owner—Edward Stock.
Architect—Edwards & Schary, 605 Market St., San Francisco.

Sub-Bids Being Taken.
APARTMENTS Cost, \$60,000
SAN FRANCISCO. Buchanan St. near Washington St.

Three-story frame and stucco apts. with brick basement (12 3-room apts.)

Owner and Builder—T. I. Strand, 822 26th Avenue.
Plans by Lawrence Ebbets, 320 Fulton Street.
Will be modernistic type of architecture.

Segregated Bids To Be Taken Sept. 29th.

APARTMENTS Cost, \$150,000
OAKLAND, Alameda Co., Cal. Crescent Ave. near Santa Clara.
Three-story frame and stucco apartments with class C concrete garage.

Owner and Builder—R. E. Mayer, 1129 McKinley St., Oakland.
Architect—Douglas Stone, Gt. Western Power Bldg., Oakland.

CHURCHES

TUSTIN, Orange Co., Cal.—Until 12 o'clock noon, October 2, bids will be received by the Tustin union high school district for furnishing a pipe organ to have at least 26 ranks of pipes in the main organ, 6 ranks in the echo organ, harp and chimes, and reproducing device.

Plans To Be Prepared.
CHURCH Cost, \$—
DAVIS, Yolo Co., Cal. Fifth and C Streets.

Church building.
Owner—Roman Catholic Archbishop. (represented at Davis by Rev. J. T. Grealy).

Architect—To Be Selected.
The new edifice will replace the present church building at 3rd and I Streets.

Preparing Working Drawings.
CHURCH Cost, \$70,000
OAKLAND, Alameda Co., Cal. Emerson and Excelsior Aves.

Reinforced concrete church.
Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.

Architect—W. E. Schirmer, 700 21st St., Oakland.
Bids will be taken about Oct. 1st.

Preparing Working Drawings.
CHURCH Cost, \$20,000
SAN FRANCISCO. Bush St. near Divisadero St.

One-story frame church.
Owner—West Side Christian Church.
Architect—Betz, Winter & Maury, 210 Post St., San Francisco.

Plans will be ready for bids in about 30 days.

Plans Being Completed.
CHURCH Cost, \$20,000
EUREKA, Humboldt Co., Cal. One-story redwood church (Colonial type).

Owner—First Methodist Church.
Architect—Rollin S. Tuttle, Box C, Los Gatos.

Bids will be taken in about 2 weeks.

Plans Being Completed.
CHURCH Cost, \$100,000
SACRAMENTO, Sacramento Co., Cal.
 39th and J Sts.
 Two-story brick and concrete church.
 Owner—Roman Catholic Bishop (St. Stephen's Parish).
 Architect—Harry Devine, California State Life Bldg., Sacramento.
 Bids will be taken in two or three weeks.

Prospective Bidders.
CHURCH Cost, \$25,000
STOCKTON, San Joaquin Co., Calif.
 Stanislaus and Lafayette Sts.
 Two-story class C brick church with tile roof (stage, social hall, and auditorium to seat 400).
 Owner—Greek Orthodox Church.
 Architect—Joseph Losekann, 1213 W. Harding St., Stockton.
 Following is a list of the contractors who have secured plans:
 T. E. Williamson, 1359 W Park St., Stockton.
 H. W. Johnson, 1229 W Magnolia St. Stockton.
 H. E. Vickroy, 1122 N Commerce St. Stockton.

John Hackman, Sonora Road and Walker Lane, Stockton.
 A. Love, 1430 North Hunter Street, Stockton.
 C. H. Dodd, 19 West Willow Street, Stockton.
 I. E. Toothacre, 1861 S. California St., Stockton.
 F. R. Zink, 420 N Central St., Stockton.
 W. H. Ecker, 1658 S San Joaquin St., Stockton.
 H. H. Henning, 1751 Berkeley Ave., Stockton.
 David Salfeld, 3411 N Sutter St., Stockton.
 W. J. Scott, 1661 W Poplar Street, Stockton.
 E. Merlo, Moreings Lane, Stockton.
 Bids are to be opened Oct. 1, 8 P. M.

The building will be equipped with modern furnishings and heating and ventilation facilities.

Contract Awarded.
CHURCH Cost, \$145,000
LOS ANGELES, Cal. No. 817 W. Thirty-fourth Street.
 Four-story Class B brick and reinforced concrete church (79x122 ft.) cast stone trim; pipe organ.
 Owner—University M. E. Church, 1016 Jefferson St., Los Angeles.
 Architect—T. L. Nudd, 825 H. W. Hellman Bldg., Los Angeles.
 Contractor—Wm. Simpson Constr. Co., Architects Bldg., Los Angeles.

FACTORIES AND WAREHOUSES

Plans Being Prepared.
SERVICE BLDGS. Cost, \$45,000
REDWOOD CITY, San Mateo Co., Cal.
 Group of service bldgs. (wood frame and tile walls).
 Owner—Pacific Gas & Electric Co., 245 Market St., San Francisco.
 Plans by Eng. Dept. of Owner.
 Plans will be ready for bids in about 30 days. Group includes warehouse, garage, service departments, superintendent's offices, etc.

Preliminary Sketches Prepared.
OFFICES, ETC. Cost, \$—
FRESNO, Fresno Co., Cal.
 Offices, warehouse and distributing produce building.
 Owner—K. Kamikawa, Kern and G Sts., Fresno.
 Architect—C. E. Butner, Cory Bldg., Fresno.

K. Kamikawa is promoting an organization to be known as the Japanese Citizens of the United States, Inc., which aims to further a co-operative marketing, purchasing and savings institution in which Japanese citizens throughout California will

Join in marketing agricultural and industrial products of the state.

Contract Awarded.
WAREHOUSE Cost, \$14,000
HAYWARD, Alameda Co., Cal. C St.
 Three-story concrete and corrugated iron warehouse (90x40 ft.)
 Owner—Hayward Poultry Producers Assn (Erick Russ, Mgr.)
 Plans by Horace Spaulding.
 Contractor—Horace Spaulding, Hayward.
 Machinery for grinding, cracking and mixing grain will be installed.
 Excavation has just been started.

Plans Being Prepared.
FACTORY Cost, \$—
OAKLAND, Alameda Co., Calif. 81st Ave. near 14th Street.
 One-story reinforced concrete factory.
 Owner—Blue Bird Potato Chips, Inc., 68th Ave. and Beck St., Oakland.
 Architect—Charles McCall 1404 Franklin St., Oakland.
 Bids will be called for at a later date.

Additional Sub-Contracts Awarded.
SHED Cont. price, \$114,868
SAN FRANCISCO, Pier No. 1.
 One-story shed (reinforced concrete construction; steel columns, wood roof).
 Owner—State Board of Harbor Commissioners.
 Engineer—Frank White, Ferry Bldg.
 Contractor—Barrett & Hilp, 918 Harrison Street.
Painting—Artist to Painting Co., 473 Bryant St.
Sheet Metal and Plumbing—von Tagen & Moller, 60 Clay St.

Plans To Be Prepared.
WAREHOUSE Cost, \$—
GRIDLEY, Butte Co., Cal.
 Grain warehouse.
 Owner—Channon & Long, Gridley.
 Architect—To Be Selected.
 This structure will replace the plant recently destroyed by fire with a loss of \$100,000.

Bids To Be Taken In Two Weeks.
WAREHOUSE Cost, \$125,000
SAN FRANCISCO, Eleventh and Bryant Sts.
 Two-story reinforced concrete central storage warehouse (flat slab construction).
 Owner—City and County of San Francisco.
 Architect—Dodge A. Reidy, Pacific Bldg., San Francisco.

Bids Opened—Complete Bid Listing.
HANGAR EXTENSION Cost, \$—
SAN FRANCISCO, Mills Field Municipal Airport.
 Extension to hangars under Contract No. 19.
 Owner—City and County of San Francisco.
 Engineer—Bureau of Engineering, 3rd floor, City Hall.
 Following is a complete list of bids:
 (A) hangar; (B) 2,000 lin. ft. piling; (C) total cost.
 *Vogt & Davidson, 185 Stevenson St. (A) \$16,847; (B) \$1; (C) \$18,847.
 Clinton-Stephenson Co., Monadnock Bldg. (A) \$16,282; (B) \$1.34; (C) \$18,962.
 Spivock & Spivock (A) \$17,600; (B) \$1; (C) \$19,600.
 Jacks and Irvine (A) \$16,891; (B) \$1.54; (C) \$19,971.
 C. C. & W. H. Haun (A) \$17,961; (B) \$1.49; (C) \$20,761.
 McDonald & Kahn (A) \$17,600; (B) \$1.40; (C) \$20,400.
 H. H. Larsen (A) \$17,873; (B) \$1.50; (C) \$20,873.

*Due to the fact that the bid of Vogt and Davidson carried an addenda to the piling bid the bid was declared invalid by the Board of Public Works and will not be considered.

Additional Sub-Contracts Awarded.
ASSEMBLY PLANT Cost, \$3,500,000
RICHMOND, Contra Costa Co., Cal.
 Group of steel frame and brick buildings (1-story assembly plant, 300,000 sq. ft.; 2- or 3-story wharf building and receiving building).
 Owner—Ford Motor Car Co., Detroit.
 Architect & Engineers—Albert Kahn, Inc., Marquette Bldg., Detroit.
 Chief Engineer—Ford Motor Car Co., 11 B. Brown, Detroit.
 Contractor—Clinton Const. Co., 923 Folsom St., San Francisco.
Ornamental Iron Metal Toilet Partitions and Hollow Metal—Michel & Pfeiffer Iron Works, Harrison and 10th Sts., San Francisco.
Brick Work—H. Johnson, 1208 Brownling Blvd., Los Angeles.
Wood Block Floors, Dampproofing & Waterproofing—Bender Roofing Co., 18th and Bryant Sts., San Francisco.
Asphalt Coating for Concrete Piles—Conrad Sovig, 248 Oak St., San Francisco.

Sub-Contracts Awarded.
FACTORY Cost, \$—
SOUTH SAN FRANCISCO, San Mateo County, Cal.
 One-story steel frame & brick factory.
 Owner—Seattle Chain & Mfg. Co., 6321 E Marginal Way, Seattle.
 Plans by Austin Co. of California.
 Contractor—Austin Co. of California, Ray Bldg., Oakland.
Electric Work—Apex Electric Co., 154 Leavenworth St., San Francisco.
Plumbing—O'Mara and Stewart, 218 Clara St., San Francisco.
Roofing—Bender Roofing Co., 18th and Bryant Sts., San Francisco.
 Iron & Sheet Metal Contract Awarded
PLANT Cost (1st unit) \$500,000
PITTSBURG, Contra Costa Co., Cal.
 Twenty-acre site available.
 Refractories plant (group of 4 or 5 steel frame, mill type buildings).
 Owner—Stockton Fire Brick Co., Russ Bldg., San Francisco.
 Engineer—K. Theill, 580 Market St., San Francisco.
Corrugated Iron and Sheet Metal—Guilfooy Corncise Works, 1234 Howard St., San Francisco.

Contract Awarded.
CLEANING PLANT Cost, \$14,000
BURLINGAME, San Mateo Co., Cal.
 Howard Avenue.
 One-story reinforced concrete cleaning plant.
 Owner—Edmond Bourne, 1211 Burlingame Ave., Burlingame.
 Plans by Grimes & Schoening, Balovich Bldg., San Mateo.
 Contractor—G. W. Williams Co., Ltd., 1404 Broadway, Burlingame.

Contract Awarded.
OFFICES & SHOP Cost, \$7000
OAKLAND, Alameda Co., Cal. E High St. S E 10th St.
 One-story frame offices and shops.
 Owner—Hoy & Co., E 10th St. and High St., Oakland.
 Architect—None.
 Contractor—F. C. Stolte, 3455 Laguna Ave., Oakland.

Contract Awarded.
GAS METER PLANT Cost, \$10,000
BAKERSFIELD, Kern Co., Cal.
 One-story reinforced concrete gas meter plant, 35x50 feet
 Owner—San Joaquin Light & Power Corp., Power Bldg., Fresno.
 Plans by Eng. Dept. of Owner.
 Contractor—Clark Gramling, Bakersfield.

Plans Being Refigured.
PRINTING SHOP Cost, \$—
NEWMAN, Stanislaus Co., Cal.
 One-story brick printing shop.
 Owner—Newman Index Company.
 Architect—Hardman & Russ, Berkeley Bank Bldg., Berkeley.

BAKERSFIELD. Kern Co., Cal.—Until October 6, 11 A. M., bids will be received by F. E. Smith, county clerk, to erect Headquarters' Building in Third Road District, Chas. H. Biegar, architect, 554-555 Haberfield Bldg., Bakersfield. Certified check 10% payable to chairman of the Board of Supervisors required with bid. Plans obtainable from architect.

Contract Awarded.
SERVICE BLDGS. Cost, \$33,000
AUBURN, Placer Co., Cal.

One-story brick and concrete service group (auto shed, warehouse bldg. and yard improvements).
Owner—Pacific Gas and Electric Co., 245 Market St., San Francisco.
Plans by Eng. Dept. of Owner.
Contractor—Lindgren and Swinerton, Inc., 225 Bush St., San Francisco.

LOS ANGELES. Cal.—Cooper's, Kenosha, Wis., announce that their engineering department is working on data and machinery layouts and requirements for its new underwear manufacturing plant to be erected in Los Angeles. Buildings will be built in industrial district and will cost in excess of \$1,000,000. Gerald Cooper, secretary of the company, will have charge of design and construction and will arrive in Los Angeles about October 15 to complete details preliminary to starting work. Company's local office is located at 750 S. Los Angeles St.

EMERYVILLE. Alameda Co., Calif.—Furniture Corporation of America, recently organized with the merger of 13 Pacific Coast furniture manufacturing concerns, plans early construction of a central plant on the former Western Electric and Santa Fe property in Emeryville. The corporation, capitalized for \$20,000,000, will maintain headquarters at Portland, Ore. H. A. Green of the Doernbecher Mfg. Co., East 28th St., North, Portland, Ore., is president of the corporation; F. H. Gillespie of Oakland and Los Angeles, vice-president; C. E. Dye, executive vice-president; E. S. Bench, secretary-treasurer; Wm. A. Healy, vice-president in charge of sales. The Ford principle of production will be used in the new plant which will manufacture furniture, mattresses, over-stuffed upholstery, mirror, woodworking and assembly departments.

GARAGES AND SERVICE STATIONS

Completing Plans.
SERVICE STATION Cost, \$250,000 (or more)

SEATTLE. Wash. Ninth Avenue bet. Denny Way and John St.
Two-story and basement steel and concrete super-service station and garage, 360 by 120 ft.
Owner—Commercial Tire Co.
Architect—J. Chas. Stanley, Republic Bldg., Seattle.

Plans Being Completed.
GARAGE Cost approx. \$30,000
BERKELEY. Alameda Co., Cal. Oxford Street.
Class C concrete garage and service station.
Owner—Regents of University of California, Berkeley.
Architect—W. H. Ratcliff, Jr., Chamber of Commerce Bldg., Berkeley.
Lessee—Richfield Oil Company.

As soon as plans are approved by the Richfield Oil Company in Los Angeles bids will be called for.

GOVERNMENT WORK AND SUPPLIES

ANACAPA ISLAND. Cal.—Carpenter Bros., Inc., Beverly Hills, at \$39,-

490, submitted lowest bid to Superintendent of Lighthouses, 18th District, San Francisco, for excavation, construction of upper and lower landings; concrete stairs to and from landings; reinforced concrete retaining wall at upper landing; construction of permanent and temporary roadways; construction of concrete rainshed complete with piping system; installation of service pipe lines; erection of tank foundations and of two 50,000-gallon redwood tanks, and installation of two complete derricks at landing platforms, one 5-ton and one 1-ton, complete. The two 50,000-gallon redwood tanks and the two complete derricks have already been purchased by the Government, are now on hand, and will be furnished to successful bidder, f.o.b. Anacapa Island. The work is to be performed at extreme easterly end of Anacapa Island, in the Santa Barbara Channel, off the coast of Southern California, approximately 12 miles southwest of Hueneme, Cal. Following is a complete list of the bids received: Carpenter Bros., Inc., Beverly Hills

McClure & Chamberlain, San Francisco	\$39,490
Robinson Bros. Co., Los Angeles	41,000
Johnson & Hansen, Ventura	44,780
Hunter & Lippman, Inc., Los Angeles	45,437
Merritt, Chapman & Scott, San Pedro	54,670
E. T. Lesure, Oakland	58,000
Bids referred to Washington for	59,570

LIVERMORE. Alameda Co., Calif.—Until Oct. 6, 11 A. M., bids will be received by Supervising Superintendent of Construction, U. S. Veterans' Hospital, Palo Alto, for additions and revisions to underground heating system at the Veterans' Hospital at Livermore. This work will consist of uncovering existing steam and hot water pipes, etc., constructing new concrete and vitrified clay pipe tunnels, as required, installing new steam supply and return pipes, including traps, valves, fittings, etc., constructing drains, removing old covering now in place, applying new non-conducting covering, cleaning, cutting, patching, painting and backfilling. Plans and further information obtainable from above.

WASHINGTON, D. C.—Bids are being received by Bureau of Supplies & Accounts, Navy Department, Washington, D. C., to furnish and deliver miscellaneous supplies and equipment as noted in the following schedules, further information being available from the Navy Department Office, 100 Harrison St., San Francisco.

Bids Open Oct. 7
San Francisco, 2 1000-lb. capacity air hoists; sch. 4146.
San Francisco, 1 pipe threading and cutting machine; sch. 4141.
San Francisco, 1 motor-driven saw bench; sch. 4147.
San Diego, 1 motor-driven bench drill; sch. 4153.
Puget Sound, 2400 ft. lighting and power cable and 3200 ft. lighting and power wire, 1000 ft. lighting and power cable and 1000 ft. incandescent lamp cord; sch. 4155.
San Francisco, 1 Universal lathe; sch. 4142.
Mare Island, 7280 ft. steel wire rope; sch. 4143.
Mare Island, 15,000 lbs. brass; sch. 4149.

Bids Open Oct. 14
Mare Island and Puget Sound, 16 transfer switches and 2 cutouts; sch. 4158.

Plans Being Figured—Bids Close
October 14, 3 P. M.
ALTERATIONS. Cost, \$—
TACOMA. Washington.—Remodel and enlarge Post Office Courthouse and Customhouse.
Owner—United States Government.
Architect—Supervising Architect, Treasury Dept., Washington, D. C.

AMERICAN LAKE. Wash.—Until October 20, 11 A. M., bids will be received by Supervising Superintendent of Construction, U. S. Veterans' Hospital, Palo Alto, Calif., to construct addition to Recreation Building at Veterans' Hospital, American Lake. This work will include, under general construction, excavating, finish grading, mass and reinforced concrete construction, miscellaneous iron work, steel stairs, sheet metal work, including ventilators, metal lathing, plastering, carpentry, insect screens, painting, glazing, hardware, plumbing, heating, electrical work, and outside service connections to services in place. Plans obtainable from above.

Structural Steel Contract Awarded.
WARD BLDGS. Cont. price, \$104,432
SAN FRANCISCO. Presidio of San Francisco.

Three reinforced concrete ward buildings at Letterman General Hospital.
Owner—United States Government.
Architect—Constructing Quartermaster, Fort Mason.
Contractor—Frank J. Reilly, 6350 Fulton Street.

Structural Steel—McClintic Marshall Co., 2050 Bryant St.

SAN FRANCISCO.—A. B. C. Painting & Spray Co., 212 Tara St. at 1316 submitted lowest bid to 12th Naval District, 100 Harrison St., for painting temporary garage building at Staff Headquarters, 100 Harrison St. The work includes painting of all exterior metal roofing, siding, ventilators, gutters and downspouts, exterior and interior surfaces of steel columns, steel sash, exterior and interior surfaces of all wooden doors and woodwork.

Following is a complete list of bids:
A. B. C. Painting & Spray Co., \$196;
McCarthy & Johanns, \$260; Piedmont Pacific Decorating Co., \$289; Reliable Paint Co., \$290; D. E. Burgess, \$318.
Bids held under advisement.

Plans Being Figured—Bids Close Oct. 3, 11 A. M.

REPAIRS. Cost, \$—
SAN FRANCISCO. Ft. Winfield Scott. Repairs to torpedo wharf.
Owner—U. S. Government.
Architect—Constructing Quartermaster, Fort Mason.
Plans obtainable from Constructing Quartermaster at Fort Mason.

Plans Being Figured—Bids Close Oct. 16, 11 A. M.

GARAGES. Cost, \$—
PALO ALTO. Santa Clara Co., Calif. Veterans' Hospital Grounds. Construct six single car garages.
Owner—U. S. Government.
Architect—Supervising Superintendent of Construction, U. S. Veterans' Hospital, Palo Alto.

This work will consist of excavating, placing concrete floors, laying up concrete block walls (concrete blocks will be furnished f.o.b. reservation by the U. S. Veterans' Bureau) built-up roofing for five of the garages, installing concrete tile roof on one garage (concrete tile will be furnished f.o.b. reservation by the U. S. Veterans' Bureau) carpentry, millwork, hardware, painting and finished grading. Plans obtainable from above on deposit of \$10, checks for same to be made payable to Treasurer of the U. S.

SACRAMENTO, Cal.—Until October 1, 3 P. M., under Order No. 2457-1705, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver Rio Vista, Solano County, wire rope, as follows:

(1) 1,000 ft. wire rope, lang lay, modified Seales construction, high grade plow steel, $\frac{3}{4}$ -in. dia., hemp center, 6 strands, 24 wires to strand. This rope shall be in one piece, 1,000 feet long on an individual reel.

(2) 1,000 ft. wire rope, modified Seales construction, regular lay, plow steel, 1-in. dia., hemp center, six strands, 19 wires to the strand. This rope shall be in 4 pieces, each 275 ft. long, and each piece on an individual reel.

(3) 2,000 ft. wire rope, modified Seales construction, regular lay, plow steel, $\frac{3}{4}$ -in. dia., hemp center, six strands, 19 wires to the strand. This rope shall be in two pieces, each 1,000 ft. long, and each piece on an individual reel.

(4) 1,000 ft. wire rope, modified Seales construction, regular lay, plow steel, $\frac{3}{4}$ -in. dia., hemp center, six strands, 19 wires to the strand; on individual reel in one piece.

The rope to be furnished shall be uncoated. It shall be the lay specified above, and constructed with a hemp core or center. The minimum breaking strength of each item shall be as follows:

- Item 1—47,000 lbs.
- Item 2—73,000 lbs.
- Item 3—41,200 lbs.
- Item 4—28,800 lbs.

STOCKTON, San Joaquin Co., Cal.—Until October 2, 3 P. M., under Circular Proposal No. 31-84, Specifications No. 2377, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, for clearing brush and trees from the area of Item 216, along the west bank of the San Joaquin River, on McDonald Tract, between Spud Island and McDonald Pump, a distance of about 12 miles below Stockton. Specifications obtainable from above office.

STOCKTON, San Joaquin Co., Cal.—Until October 2, 3 P. M., under Circular Proposal No. 31-83, Specifications No. 2350, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, for clearing brush and trees from the area of Items 207 and 209 along the Easterly bank of the San Joaquin River between the mouth of the Calaveras River and Twelve Mile Slough, distances of about 5 and 6½ miles below Stockton. Specifications obtainable from above office.

HALLS AND SOCIETY BUILDINGS

Plans To Be Prepared.

CLUB HOUSE Cost, \$—
BERKELEY, Alameda Co., Cal. Alvarado Road.

Club House.
Owner—Skywood Golf & Country Club (L. R. Haver, Federal Realty Bldg., Oakland).

Architect—Not Selected.
Campaign to raise funds is now under way.

Bids To Be Taken In One Week.
RECREATION BLDG.

Cost approx. \$50,000
SAN JOSE Santa Clara Co., Cal. W. Santa Clara St.

One and one-half-story steel frame and brick recreation building.
Owner—C. H. Kamm.

Architect—W. H. Weeks, 111 Sutter St., San Francisco; 1736 Franklin St., Oakland, and Bank of Italy Bldg., San Jose.

Lessee—O. J. Forman, San Jose.

Low Bidder.

CLUB Cost, \$355,000
LONG BEACH, Los Angeles Co., Cal. Cedar Avenue.

Three-story reinforced concrete club (50x150 feet).

Owner—B. P. O. Elks No. 588.

Architects—W. Horace Austin and Schilling & Schilling, associated, Long Beach.

Low Bidder—Chas. W. Pettifer Co., Inc., 733 W. 14th St., Long Beach.

HEALDSBURG, Sonoma Co., Cal.—M. O. Smith, Healdsburg, at \$607.45 awarded contract by city council for painting American Legion Memorial Building.

Wharf Contract Awarded.

CLUB HOUSE Cost, \$60,000
BELVEDERE, Marin Co., Cal. One-story frame and stucco club house
Owner—San Francisco Yacht Club.
Architect—H. H. Gutterson, 526 Powell St., San Francisco.

Wharf—Clinton Stephenson Const. Co., Monadnock Bldg., San Francisco, \$10,000.

September 23, 1930

Sub-Contracts Awarded.

LODGE BLDG. Cont. Price, \$31,779
GILROY, Santa Clara Co., Cal. N. Monterey St.

Two-story concrete store and lodge building (190x55 ft.)

Owner—Mainero Bros., Gilroy.
Architect—Albert F. Roller, Crocker First National Bank Bldg., San Francisco.

Lessees—Elks Club (2nd story); B. Barshinger (1st story).

Reinforcing Steel—W. S. Wetenhall, 17th and Wisconsin Sts., San Francisco.

Steel Sash—Michel & Pfeffer Iron Works, Harrison and Tenth Sts., San Francisco.

FORTUNA, Humboldt Co., Calif.—

Until October 14, 2 P. M., bids will be received by Fred M. Kay, county clerk, to furnish and install furniture and furnishings (floor coverings, drapes, etc.) in American Legion Memorial Building at Fortuna. Newton Ackerman, architect, Fourth and Commercial streets, Eureka. Certified check 10% payable to county clerk required with bid. Bids for furnishings and furniture for the Arcata Memorial Building will also be opened on October 14 by the supervisors. Specifications on both structures are obtainable from the architect at Eureka.

Plans Being Figured—Bids Close Oct. 7, 2 P. M.

LODGE BLDG. Cost approx. \$20,000
WILLIAMS, Colusa Co., Cal.

Lodge building (height and type of structure not determined).

Owner—Tuscan Lodge of Williams.

Architect—Starks & Flanders, Fortin Bldg., Sacramento.

Plans Being Prepared.

CLUB HOUSE Cost approx. \$25,000
SAN FRANCISCO. Thirty-second Ave. and California St.

One-story and basement frame and stucco club house.

Owner—Miss Burke's School.

Architect—Miss Julia Morgan, Merchants' Exchange Bldg.

HOSPITALS

Preparing Working Drawings.

CLINIC Cost, \$100,000
SANTA BARBARA, Santa Barbara Co., Cal. Third Avenue.

Two-story and basement reinforced concrete class A clinic (42x150-ft.; 70 rooms).

Owner—Dr. W. D. Sansum.

Architect—Carlton M. Winslow, Architects' Bldg., Los Angeles.
It will be reinforced concrete construction with tile roofing, plaster exterior, art stone trim, storage water heater, hardwood and tile floors, etc.

LOS ANGELES, Cal.—Following low bids received by County of Los Angeles for the completion of the Acute Unit of the Los Angeles General Hospital:

Carbon Dioxide Equipment—Walter Kidde & Co., New York City, \$5,213.

Carts—J. L. Davidson Co., Los Angeles, \$56,436.

Filing Cases—Watson Mfg. Co., Jamestown, N. Y., Metal Door & Trim Co., and Western Metalcrafts, Inc., \$4,349.

Fixed Equipment—General Fireproofing Co., Los Angeles, \$321,762.

Heavy Shelving—Drayer & Hanson, L. A., \$3,018.

Hollow Metal—Metal Door & Trim Co., Los Angeles, \$507,920.

Library Stacks—Art Metal Const. Co., Los Angeles, \$1,200.

Lockers—Lyon Metal Products Co., L. A., \$49,691.

Ornamental Metal—Phillip Freidman, Los Angeles, \$38,809.

Tables—Anderson School Equipment Co., Los Angeles, \$14,070.

Show Case—Watson Mfg. Co., Metal Door & Trim Co., and Western Metalcrafts Co., Inc., \$15,200.

Time Card Racks—Watson Mfg. Co., Metal Door & Trim Co., and Western Metalcrafts Co., Inc., \$755.

Wire Enclosures—City Wire & Iron Works, Los Angeles, \$1350.

X-Ray Developing Equipment—Watson Mfg. Co., Metal Door & Trim Co. and Western Metalcrafts Co., Inc., \$4,422.80.

Plans Being Figured—Bids Close Oct. 14, 2 P. M.

DETENTION HOME Cost, \$30,000
SAN LUIS OBISPO, San Luis Obispo Co., Cal. Johnson Avenue.

Brick Detention Home (frontage 132-ft. with central section forward, 28-ft. with rear wing 36x70-ft. tile on sloping roofs; asbestos shingles on flat roofs).

Owner—County of San Luis Obispo.

Architect—Wm. Mooser, Monadnock Bldg., San Francisco.

Plans Being Figured—Bids Close Oct. 14, 2 P. M.

COTTAGE Cost, \$8000
SAN LUIS OBISPO, San Luis Obispo Co., Cal. Johnson Avenue.

One-story frame (tubercular) health farm cottage (10 rooms with separate dining room).

Owner—County of San Luis Obispo.

Architect—Wm. Mooser, Monadnock Bldg., San Francisco.

Plans Being Figured—Bids Close October 6.

ADDITION Cost, \$18,000
SANTA BARBARA, Santa Barbara Co., Cal. Santa Maria Branch County Hospital.

Addition to hospital.

Owner—County of Santa Barbara.

Architect—Not Given.

Plans To Be Prepared.

HOSPITAL Cost, \$50,000
YUBA CITY, Sutter Co., Cal.

Fireproof hospital.

Owner—Organization to be formed by Yuba City Commercial Club to finance (P. N. Swenson, President of Club).

Architect—To Be Selected.

The Club has appointed the following committee to select a site and proceed with preliminaries with regards to construction: Geo. F. Otis, J. C. Nason, E. E. Reeves, Geo. H. Thurn and Claude Trippett.

Plans Being Completed.
RUIIDINGS \$352,000 Available.
AGNEW, Santa Clara Co., Cal. State
 Hospital Grounds.
 Farm Colony buildings.
 Owner—State of California.
 Architect—Geo. B. McDougall, State
 Architect, Public Works Bldg.,
 Sacramento.

Proposed work comprises three re-
 inforced concrete ward buildings,
 having a combined capacity for 360
 patients and construction of a com-
 bined commissary, kitchen and power
 house building.

Bids will be called for about October
 1st.

Plans Being Completed.
SANITARIUM Cost, \$15,000
 One-story frame and stucco sanitari-
 um.
 Owner—Bret Harte Sanitarium, Mur-
 phy.

Architect—Joseph Losekann, 1218 W.
 Harding St., Stockton.

Plans will be approved in about one
 week.

LOS ANGELES, Cal.—Until 2 P.
 M., October 20, bids will be received
 by Los Angeles county supervisors for
 work embraced in fire segregated con-
 tracts for completion of Acute Unit
 of General Hospital at Marengo St.,
 Zonal Ave. and Brittanla St., as fol-
 lows: Kitchen equipment; steamers
 and kettles; meat tracks; dish wash-
 ing machines; scales.

Plans and specifications obtainable
 from office of county architect, Hall
 of Records, upon deposit of \$200.
 Plans, which were prepared by Ed-
 win Bergstrom, Myron Hunt, Pierpont
 Davis, Sumner P. Hunt and William
 Richards, associate architects, may be
 seen at the office of the clerk of the
 board of supervisors, Mame B.
 Beatty, 303 Hall of Records.

LOS ANGELES, Cal.—Until 2 P. M.,
 October 14, bids will be received by
 Los Angeles County Supervisors for
 work embraced in six segregated con-
 tracts for completion of the Acute
 Unit of the General Hospital at Ma-
 rengo St., Bonal Ave. and Brittanla
 St., as follows: Heavy duty ranges;
 light duty ranges; sheet metal; light-
 ing fixtures; electric clocks; shades.

Plans and specifications obtainable
 from office of county architect, Hall
 of Records, upon deposit of \$200.
 Plans, which were prepared by Ed-
 win Bergstrom, Myron Hunt, Pierpont
 Davis, Sumner P. Hunt and William
 Richards, associate architects, may be
 seen at the office of the clerk of the
 board of supervisors, Mame B.
 Beatty, 303 Hall of Records.

FRESNO, Fresno Co., Cal.—Novem-
 ber 4 is date set by county supervisors
 to vote bonds of \$250,000 to finance
 erection of a surgery unit, a crippled
 children's ward and a contagious ward
 at county hospital. Preliminary plans
 for the work have been prepared by
 Architects Swartz and Ryland, Rowell
 Bldg., Fresno. D. M. Barwell is the
 county clerk.

Bid To Be Taken In Two Weeks.
ADDITIONS Cost, \$160,000
SAN FRANCISCO, Potrero Ave. bet.
 20th and 23rd Sts. (San Francisco
 Hospital).

Class A additions on roof of four
 ward buildings (brick walls, tile
 roof).

Owner—City and County of San Fran-
 cisco.

Architect—Alfred I. Coffey and Mar-
 tin J. Rist associated, Phelan
 Bldg.

HOTELS

Preparing Preliminary Plans.
HOTEL Cost, \$400,000
CALEXICO, Imperial Co., Cal.
 Three-story and basement Class A
 steel frame and concrete hotel
 (160 rooms).
 Owner—Will Conway.
 Architect—Merrill & Wilson, Petro-
 leum Securities Bldg., L. A.

Contract Awarded.
HOTEL Cost, \$750,000
SEATTLE, Wash. E 45th Street and
 Brooklyn Ave.
 Fifteen-story and basement class A
 (Edmund Meany) hotel, 115x125-
 ft.; 156 hotel rooms, ballroom, etc.
 Owner—University Community Hotel
 Corporation.
 Architect—R. C. Reamer, Stimson
 Bldg., Seattle.
 Contractor—Walter and Brady, Lloyd
 Bldg., Seattle.

Taking Bids In Thirty Days.
HOTEL Cost, \$500,000
YAKIMA, Wash. Yakima Ave.
 Fourteen-story fireproof hotel.
 Owner—J. Von Herberg, 1520 1st Ave.,
 Seattle.
 Architect—Henry Bittman, Securities
 Bldg., Seattle.
 Main section will be two-story with
 octagonal tower, 80-ft. square, 14-
 stories in height.

Preparing Preliminary Plans.
HOTEL Cost, \$325,000
PHOENIX, Arizona. SW Washington
 and Second Sts.
 Eight-story Class A reinforced con-
 crete hotel (150x150 feet.)
 Owner — Plaza Improvement Corp.,
 John L. Irvin Realty Co.
 Architect—Walker & Eisen, Western
 Pacific Bldg., Los Angeles.

Preparing Working Drawings.
HOTEL Cost, \$3,500,000
PORTLAND, Oregon. Holladay, Mul-
 tnomah, 13th and 14th Sts.
 20-22-story Class A steel frame
 hotel with stone or terra cotta
 facing (20x220 feet) (500 rooms).
 Owner—Ralph E. Lloyd, Bank of
 Italy Bldg., Los Angeles.
 Architect—Morgan, Walls & Clements
 Van Nuys Bldg., Los Angeles.

Segregated Bids Being Taken.
ADDITION Cost, \$200,000
STOCKTON, San Joaquin Co., Calif.
 Sutter and Market Sts.
 Five-story class A addition to hotel.
 Owner—W. C. Clark, Sutter and Mar-
 ket Sts., Stockton.
 Architect—Olen Allen, 41 S Sutter
 St., Stockton.

Contract Awarded.
ADDITION Cost, \$23,738
MONTEREY, Monterey Co., Cal. Ty-
 ler St. S Bonifacio Place.
 Two-story class C brick addition to
 hotel (14 rooms).
 Owner—Clara C. McMenamin, Mont-
 erey.
 Architect—Blaine & Olsen, 1755 Broad-
 way, Oakland.
 Contractor—C. H. Lawrence, 5321
 Lawton Ave., Oakland.

Contract Awarded.
HOTEL Cost, \$—
SANTA BARBARA, Santa Barbara
 Co., Cal. East Blvd.
 Two and three-story frame and
 stucco hotel (82 rooms) Spanish
 type.
 Owner—Fred Bartholomew et al.
 Architect—Walker & Eisen, Western
 Pacific Bldg., Los Angeles.
 Contractor—Christ Thoren, 5615 W-
 Fourth St., Los Angeles.

Contract Awarded — Construction To
 Be Started At Once.
ADDITION Cost, \$80,000
SANTA ROSA, Sonoma Co., Cal.
 Thirty-room hotel addition.
 Owner—Occidental Hotel (W. W. Mad-
 ison, owner), Santa Rosa.
 Architect—None.
 Contractor—Walter Proctor, 12 W 10th
 St., Santa Rosa.

The improvements will comprise a
 30-room addition and complete redecor-
 ating of the interior; lobby will be
 remodeled in the Spanish style and
 new quarters provided for a restaur-
 ant on the ground floor. New boiler
 will be installed in connection with
 the heating plant.

Plans Being Prepared.
HOTEL Cost, \$40,000
REDWOOD CITY, San Mateo Co., Cal.
 Gaiques Street.
 Two-story brick hotel (30 rooms).
 Owner—Sol Morris, Redwood City.
 Plans by Carl Schuetz, 1125 The High-
 way, Redwood City.
 Segregated bids will be taken in one
 week. Will have composition and tile
 roof, oil burning system.

ICE AND COLD STORAGE PLANTS

Commissioned To Prepare Plans.
COLD STORAGE PLANT \$100,000
 (ultimate cost, \$500,000)
OLYMPIA, Washington.
 First unit of reinforced concrete cold
 storage plant.

Owner—Thurston County Port Com-
 mission.
 Engineer—Otis Murray (chief engi-
 neer for the Port of Olympia),
 Olympia.
 Architect—Joseph Wohleb, Chambers
 Bldg., Olympia.

Sub-Contracts Awarded.
COLD STORAGE PLANT
PETALUMA, Sonoma Co., Cal.
 One-story brick ice and cold storage
 plant (40-ton capacity).
 Owner—Petaluma Ice & Cold Storage
 Co., Petaluma.

Plans by Gay Engineering Co.
 Contractor—Gay Engineering Co.,
 265 Santa Fe St., Los Angeles.
Concrete Work — A. O. Schlenger,
 Petaluma.
Electric Wiring—Cline Electric Works
 Petaluma.

POWER PLANTS

LOS ANGELES, Cal.—City council
 sets Nov. 4 as date to vote bonds of
 \$13,300,000 to augment and improve
 power facilities in the city's Owens
 Valley water and power system. Sur-
 vey and acquisition for a power trans-
 mission line from Boulder Dam to
 Los Angeles will be met by \$2,300,000
 of the bond issue.

Contract Awarded.
TRANSFORMER HOUSE Cost, \$—
NEWARK, Alameda Co., Cal.
 Steel frame transformer house.
 Owner—Pacific Gas and Electric Co.,
 245 Market St., San Francisco.
 Plans by Eng. Dept. of Owner.
 Contractor—Western Iron Works, 141
 Beale St., San Francisco.
 Thirty tons of steel involved.

Bids Opened.
POWER HOUSE Cost, \$30,000
MODESTO, Stanislaus Co., Cal. Stan-
 islaus County Hospital.
 Two-story reinforced concrete and
 hollow tile power house (unit 3).
 Owner—County of Stanislaus.
 Architect—Russell Guerne De Lappe,
 1710 Franklin St., Oakland.
 Following is a complete list of bids:
General Work
 M. O. Ward, 222 Magnolia St.,
 Modesto \$5,665

G. J. Ulrich Const. Co., Modesto 6,395
Geo. Swannstrom, Oakland..... 6,470
Bids held under advisement.
Electric Work
Awarded to Wille Electric Co., 917
St., Modesto, \$225.
Other bidders were:
C. H. Lentz, Modesto..... \$305
O'Connell & Taggard, Modesto..... 412
Elevators
Awarded to Otis Elevator Co., 1
Beach St., San Francisco, \$4,956.
Spencer Elevator Co., San Francisco,
co., only other bidder, at \$4,990.
Heating
Contract awarded to D. R. Hoffman,
611 1 St., Modesto, \$10,966.
Other bidders were:
Luppen & Hawley, Sacramento..... \$13,163
L. J. Kruse Co..... 13,740
Schreibler Bros., Oakland..... 13,958
Scott Co., San Francisco..... 14,500
J. Nelson Co., S. F..... 15,571
C. C. Moore & Co..... 17,816

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

Preparing Preliminary Plans.
FIREHOUSE Cost, \$50,000
SAN FRANCISCO. Filbert and Web-
ster Sts.
Brick firehouse.
class.

Owner—City and County of San Fran-
cisco.
Architect—W. E. Baumberger, care
Arthur Brown's office, 251 Kearny
Street.

Contract Awarded.
POST OFFICE Cost, \$18,000
REDWOOD CITY, San Mateo Co.,
Cal. Webster and Theatre Sts.
One-story reinforced concrete Post
Office.

Owner—General Properties, Inc., 529
Ramona St., Palo Alto.
Plans by Wm. H. Rowe, 1535 Vancou-
ver St., Burlingame.
Lease—United States Government.
Contractor—Wells P. Goodenough, 310
University Ave., Palo Alto.

Plans Being Figured—Bids Close Oct.
8, 12 Noon.
JAIL Cost, \$—
LOS ANGELES, Cal. Avenue 19.

Five-story and basement class A re-
inforced concrete jail (T-shaped,
200x45-ft., and 110x45-ft.; accom-
modate 625).

Owner—City of Los Angeles.
Plans by Los Angeles City Construc-
tion Dept.

Owner Taking Bids.
POST OFFICE Cost, \$20,000
REDWOOD CITY, San Mateo Co.,
Cal. Webster and Theatre Sts.
One-story reinforced concrete post
office.

Owner—General Properties, Inc., 529
Ramona St., Palo Alto
Plans by Wm. H. Rowe, 1535 Vancou-
ver St., Burlingame.
Lease—United States Government.

FRESNO, Fresno, Co., Cal.—No-
vember 4 is the date set by county
supervisors to vote bonds of \$500,000
to finance erection of a fireproof hall
of records annex to the present county
courthouse. Preliminary plans for
the structure have been prepared by
Architect W. D. Coates, Jr., Rowell
Bldg., Fresno. D. W. Barnwell is
county clerk.

MARTINEZ, Contra Costa Co., Cal.
—County Grand Jury, in annual re-
port to the supervisors, recommends
the construction of an addition to the
county jail building or the establish-
ment of a county prison farm to re-
lieve crowded conditions in the pre-
sent structure which was originally
erected to accommodate 35 inmates.
The structure now houses from 80 to
90 prisoners.

Plans To Be Prepared.
LIBRARY Cost, \$40,000
FAIRFIELD, Solano Co., Calif. Op-
posite county courthouse.
Fireproof library.
Owner—County of Solano.
Architect—To Be Selected.
Preliminary plans for this structure
are being prepared by Architects Coff-
man, Sahlgren and Stafford, Forum
Bldg., Sacramento, and Architects E.
L. and John E. Norberg, 580 Market
St., San Francisco. The plan most
favorable to the county supervisors
will be accepted and the architects
commissioned to prepare working
drawings.

Plans Being Figured—Bids Close Oct.

7, 10 A. M.
EQUIPMENT Cost, \$—
BERKELEY, Alameda Co., Cal. SV
Kittredge St. and Shattuck Ave.
Furnish and install furnishings and
technical equipment for main li-
brary.

Owner—City of Berkeley, Florence E.
Turner, city clerk.
Architect—Jas. W. Plachek, Mercan-
tile Bank Bldg., Berkeley.

Bids previously received on this
equipment as follows, were rejected:
R. Brandein & Co., S. F..... \$24,105
M. G. West Co., S. F..... 25,615
C. F. Weber Co., S. F..... 30,000
Remington Rand Co., S. F..... 30,000
Braas Kuhn Co., S. F..... 30,395
Gunn Furniture Co., S. F..... 31,332
Certified check 10% payable to city
required with bid. Plans obtainable
from the architect on deposit of \$10,
returnable.

RESIDENCE

Contract Awarded.
RESIDENCE Cost, \$14,000
PALO ALTO, Santa Clara Co., Cal.
No. 1125 Hamilton Avenue.

Two-story and basement frame and
stucco residence.

Owner—F. M. Warren, 1120 High St.,
Palo Alto.

Architect—Ed. Musson Sharpe, 525
Market St., San Francisco.

Contractor—H. H. Dabinett, 2350
South Court, Palo Alto.

Sub-Bids Being Taken.
RESIDENCE Cost, \$7500
REDWOOD CITY, San Mateo Co., Cal.
Edgewood Park.

One-story and basement frame and
stucco residence (6 rooms; tile
roof; gas heating system).

Owner and Builder—E. Strandquist,
2710 Broadway, Redwood City.

Plans by Owner.
Sub-bids are wanted on all portions
of the work.

Contract Awarded.
ALTERATIONS Cost, Approx. \$8000
MOSS BEACH, San Mateo Co., Cal.
Alterations and additions to residence
(carmel stone, etc.)

Owner—Margaret Kyne.
Architect—Chas. F. Strothoff, 2274
15th St., San Francisco.

Contractor—George J. Elkington &
Sons, 1291 33rd Ave., San Fran-
cisco.

Plans Being Figured.
RESIDENCE Cost, \$4000
MARTINEZ, Contra Costa Co., Cal.
One-story frame and stucco residence
(5 rooms).

Owner—Mrs. Mattie Lawry.
Architect—Ernest Flores, 410 Fairmont
Ave., Berkeley.

Bids Being Taken By Selected List of
Contractors.

REMODELING Cost, \$5000
MILL VALLEY, Marin Co., Cal.
Remodel two-story rustic residence.
Owner—R. I. Wisler, Mill Valley.
Architect—George Cantrell, 45 2nd St.,
San Francisco.

Plans Being Completed.
RESIDENCE Cost, \$16,000
BERKELEY, Alameda Co., Cal. Clare-
mont Place
Two-story frame and stucco residence
(9 rooms).
Owner—J. M. Olsen.
Architect—W. E. Schirmer, 700 21st
St., Oakland.
Bids will be taken in one week.

LOS GATOS, Santa Clara Co., Cal.
—Wells P. Goodenough, 310 University
Ave., Palo Alto, desires sub-bids
in connection with the construction
of a two-story frame and stucco resi-
dence, to be erected in Los Gatos for
W. E. Blauer, 1634 The Alameda, San
Jose. Plans were prepared by Archi-
tect Clarence Tantau, Shreve Bldg.,
San Francisco. Cost, \$50,000.

Property Purchased.
BUNGALOW COURT Cost, \$—
SANTA BARBARA, Santa Barbara
Co., Cal. Bath and Yannoni Sts.
Frame and stucco bungalow court.
Owner—A. Townsend Wells, Santa
Barbara.
Architect—None.

Plans Being Completed.
RESIDENCE Cost, \$16,000
WOODLAKE, Tulare Co., Cal.
Two-story frame and stucco residence
with tile roof (9 rooms, 3 baths).
Owner—A. P. Haury, Woodlake.
Architect—Swartz & Ryland, Spauler
Bldg., Monterey; Brix Bldg., Fresno,
and 373 Main St., Salinas.

Contract Awarded.
REMODELING Cost, \$—
PIEDMONT, Alameda Co., Cal.
Remodel present two-story frame and
stucco residence.
Owner—E. W. Ehmann, 37 Bellevue
Ave., Piedmont.
Architect—Parr & Ward, 68 Post St.,
San Francisco.
Contractor—Alex Cedarborg, 1455 Ex-
celsior Blvd., Oakland.

Plans Being Figured.
RESIDENCE Cost, \$11,000
ARLINGTON ACRES, Contra Costa
Co., Cal.
One and one-half-story frame and
stucco residence (7 rooms, 2 baths)
Owner—The Misses Stewart.
Architect—Hardman & Russ, Berke-
ley Bank Bldg., Berkeley.
Following contractors will submit
bids: W. C. Cone 1744 Broadway, Oak-
land; Walter Sorensen, 2940 Piedmont,
Berkeley; David Nordstrom, 354 Ho-
bart St., Oakland; John Bartlett, 354
Hobart St., Oakland; Conner & Con-
ner, 1726 Grove St., Berkeley.

Preparing Working Drawings.
PARISH HOUSE Cost, \$10,000
OAKLAND, Alameda Co., Cal. Em-
erson and Excelsior Aves.
Two-story frame and stucco parish
house.
Owner—Roman Catholic Archbishop of
San Francisco, 1100 Franklin St.,
San Francisco.
Architect—W. E. Schirmer, 700 21st
St., Oakland.
Plans will be ready for bids about
Oct. 1st.

Contract Awarded.
RESIDENCE Cont. price, \$13,980
SAN JOSE, Santa Clara Co., Cal.
Two-story and basement frame and
stucco residence
Owner—M. Postlewait, 44 S 15th St.,
San Jose.
Architect—Binder & Curtis, 35 W San
Carlos St., San Jose.
Contractor—Chas. Thomas, 127 Clay-
ton St., San Jose.

Plans Being Completed.
RESIDENCE Cost, \$25,000
DEL MONTE, Monterey Co., Cal.
Two-story frame and stucco residence
(10 rooms).
Owner—Mrs. Van Ness.
Architect—W. O. Raiguel, Hotel Del
Monte, Monterey.
Bids will be taken in one week or
ten days.

Owner Taking Sub-Bids.
RESIDENCES Cost, \$12,000 each
SAN MATEO, San Mateo Co., Cal.
Bayshore Blvd.
Two two-story frame and stucco resi-
dences (7 rooms, 2 baths each).
Owner and Builder—John L. Bene-
detti, 134 Elm St., San Mateo.
Architect—Harold Stoner, 220 3rd
Ave., San Mateo.

Plans To Be Prepared.
DWELLINGS Cost, \$3500 to \$4500 ea
PITTSBURG, Contra Costa Co., Cal.
Pittsburg Terrace Tract.
Twenty-five one-story frame and
stucco dwellings (4 and 5 rooms
each).
Owner—Davenport Realty Co. (W. C.
McKillop, Manager), 2750 Sutter
St., San Francisco.
Plans by Owner.

Construction Under Way.
RESIDENCE Cost, \$25,000
SAN FRANCISCO. Broadway near
Scott Street.
Two-story frame and stucco residence
(14 rooms).
Owner—Julian Thorne.
Architect—Farr & Ward, 68 Post St.
Contractor—Taylor and Jackson, 290
Tehama St.
Grading—Sibley Grading & Teaming
Co., 165 Landers St.
Lumber—Loop Lumber Co., Central
Basin.
Structural Steel—Golden Gate Iron
Works, 1541 Howard St.
Plumbing—J. J. McLeod, 1246 Golden
Gate Ave.
Brick—White and Gloor, Monadnock
Bldg.
Plastering—Robt. Starrett, 227 13th St.
Stairs—L. S. Cereghino, 356 29th Ave.
Electric Wiring—Dowd-Seid Elec. Co.
2118 Mission St.
Roofing—Alta Roofing Co., 976 Indi-
ana St.
Glass—Cobbledick-Kibbe Glass Co.,
666 Howard St.

Plans Being Completed.
RESIDENCE Cost, \$—
ATHERTON, San Mateo Co., Cal.
Two-story brick veneer residence.
Owner—Clarence Walter, 562 Mission
St., San Francisco.
Architect—H. H. Guttererson, 526 Powell
St., San Francisco.
Bids will be taken in one week.

Plans Being Figured.
RESIDENCE Cost, \$16,000
SAN MATEO, San Mateo Co., Calif.
San Mateo Park.
Two-story frame and basement frame and
stucco residence (11 rooms).
Owner—A. W. Stickney, 1629 Howard
St., Burlingame.
Architect—Harold Stoner, 220 3rd Ave.
San Mateo.

Plans Being Figured.
RESIDENCE Cost, \$11,000
HILLSBOROUGH OAKS, San Mateo
Co., Cal.
Two-story frame and basement frame and
stucco residence (8 rooms).
Owner—Thomas Davis.
Architect—Harold Stoner, 220 3rd Ave.
San Mateo.

Sub-Bids Being Taken.
RESIDENCES Cost each, \$7,000
SAN FRANCISCO. St. Mary's Park.
Two one-story and basement frame
and stucco residences (5 rooms
each).

Owner and Builder—A. R. Johnson,
391 Mission St.
Plans by D. E. Jaekle, Call Bldg.
Will have covered tile interior, hard-
wood trim, gas heating system.

Plans Being Prepared.
RESIDENCE Cost, \$6500
SAN FRANCISCO. Bank St. 60 ft. S
Courtland Ave.
One-story and basement frame and
stucco residence (5 rooms).
Owner and Builder—Sam Filippo, 1720
La Salle Ave.
Plans by D. E. Jaekle, Call Bldg.
Sub-bids will be taken in a few days.

Plans Being Completed.
RESIDENCES Cost each, \$5500
SAN FRANCISCO. Moraga near 21st
Avenue.
Five one-story and basement frame and
stucco residences (5 rooms each).
Owner and Builders—Castle Bldg. Co.,
210 Castenada St.
Plans by D. E. Jaekle, Call Bldg.
Sub-bids will be taken in a few days.

Contract Awarded.
RESIDENCE Cost, \$22,000
SAN FRANCISCO. Jackson St. near
Steiner St.
Two-story and basement frame and
stucco residence.
Owner—F. D. Zelinsky, 165 Grove St.
Architect—Hyman & Appleton, 68 Post
Street.
Contractor—Jacks & Irvine, 74 New
Montgomery St.

Construction Postponed Indefinitely.
RESIDENCE Cost, \$20,000
BURLINGAME, San Mateo Co., Cal.
Two-story and basement frame and
stucco residence (9 rooms and 3
baths).
Owner—John F. Linien.
Plans by Grimes & Schoening, Bal-
ovich Bldg., San Mateo.

Plans Being Figured.
ALTERATIONS Cost approx. \$7000
BURLINGAME, San Mateo Co., Cal.
Alterations to residence.
Owner—Morgan Gunst, 906 Burlin-
game Ave., Burlingame.
Architect—H. H. Guttererson, 526 Pow-
ell St., San Francisco.

Sub-Bids Being Taken.
RESIDENCE Cost, \$15,000
BERKELEY, Alameda Co., Cal. Eu-
clid Avenue.
Two-story frame and stucco residence.
Owner—F. Foster.
Architect—E. L. Snyder, 2101 Shattuck
Ave., Berkeley.
Contractor—Beckett & Wight, 722
Scenic Ave., Berkeley.

SCHOOLS

Low Bidders.
SCHOOL Cost, \$100,000
ONTARIO, San Bernardino Co., Cal.
Chaffey High School Site.
Reinforced concrete high school (nine
classrooms, four laboratories).
Owner—Chaffey Union High School
District.
Architect—Allison & Allison, Califor-
nia Reserve Bldg., Los Angeles.
Low Bidder—Campbell Constr. Co., 228
E-Transit St., Ontario, at \$76,024
Laboratory Equipment—Anderson Co.,
Los Angeles, at \$9657.
Electric Wiring—D. L. Davis, On-
tario, at \$5280.
Plumbing—Ontario Plumbing Co., at
\$5250.
Heating—Cooney & Winterbottom,
Los Angeles, at \$16,792.

Contract Awarded.
SCHOOL Cost, \$70,000
HOLLISTER, San Benito Co., Cal.
Two-story brick and concrete school
(12 rooms).
Owner—Sacred Heart School (Rev.
Daniel Keenan, pastor), Hollister
Architect—R. G. Montgomery, Cham-
ber of Commerce Bldg., Los An-
geles
Contractor—James L. McLaughlin, 251
Kearny St., San Francisco.
Sub bids are in and will be awarded
within two weeks.

Contract Awarded.
LABORATORY Cost, \$—
PASADENA, Los Angeles Co., Cal.
California Street.
Two-story reinforced concrete astro-
physical laboratory (125x56 ft.).
Owner—California Institute of Tech-
nology.
Architect—Mayers, Murray & Phillip,
2 W. 47th St., New York City.
Contractor—William C. Crowell, 495
S. Broadway, Pasadena.

Preliminary Plans Being Prepared.
JUNIOR COLLEGE Cost, \$—
SANTA ROSA, Sonoma Co., Cal.
Class A Junior College group.
Owner—Santa Rosa Junior College
District.
Architect—W. H. Weeks, 111 Sutter
St., San Francisco.
The project will be constructed on
the unit system, the first unit to cost
\$38,000 or which funds are not avail-
able. Will of the English or Gothic
type of architecture. Complete project
will include the construction of a
swimming pool on the 20-acre site
available for the college.

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Preparing Preliminary Plans.
ALTOURISM Cost, \$100,000
PASADENA, Los Angeles Co., Cal.
 Wilson and California Sts.
 Reinforced concrete auditorium.
 Owner—California Institute of Technology.
 Architect—Mayers, Murray & Phillip,
 2 W. 47th St., New York City.

Contract Awarded.
GYMNASIUM Cont. Price, \$7964
VALLEJO, Solano Co., Cal.
 Completion of gymnasium at Senior
 High School, 14 Fleming Ave.
 Owner—Vallejo High School District.
 Elmer L. Cave, Secretary, Board
 of Education.
 Architect—W. A. Jones, Rm. 14, City-
 County Bldg., Vallejo.
 Contractor—James Bitcon, 628 Lou-
 isiana St., Vallejo.

Plans To Be Prepared.
GYM, ETC. \$87,000
 (available for construction)
SAN RAFAEL, Marin Co., Cal.
 Gymnasium; planting and lawns and
 shrubbery, etc., at college grounds
 Owner—Marin Junior College Dist.
 Architect—A. A. Cantin, 544 Market
 St., San Francisco.

Plans Being Figured—Bids Close Oct.
 22, 1:30 P. M.
SCHOOL Cost, \$150,000
ANTIOCH, Contra Costa Co., Cal. (15-
 acre site), D St.
 Two-story brick high school.
 Owner—Antioch Live Oak High School
 District.
 Architect—Davis - Pearce Co., Grant
 and Weber Sts., Stockton.

Preparing Working Drawings.
SCHOOL \$250,000 appropriated
ALTADENA, Los Angeles Co., Calif.
 Lake Avenue.
 Masonry Junior High School (class-
 rooms, auditorium, cafeteria, music
 room, library and offices).
 Owner—Pasadena Board of Educa-
 tion.
 Architect—Marston & Maybury, 25 S
 Euclid Ave., Pasadena.

COALINGA, Fresno Co., Cal.—Until
 October 8, 7:30 P. M., bids will be re-
 ceived by F. J. McCollum, clerk, Coal-
 inga Union High School District, to
 furnish and install electrical stage
 equipment, as follows:
 (1) One stage panel board provided
 with 22 circuits and nine dimmers;
 (2) One 27-ft. section of footlight
 containing 24 200-watt reflectors;
 (3) Eight 6-ft. sections of standard
 borderlights;
 (4) Install and wire board, foot-
 lights, border lights, stage pockets,
 base plugs, work lights and all equip-
 ment included in specifications.
 Certified check 10% required with
 bid. Specifications obtainable from
 clerk.

**Curtain & Drapery Contracts Award-
 ed.**
FURNISHINGS Cost, \$—
SAN RAFAEL, Marin Co., Cal.
 Furnish and install asbestos curtain
 for stage for high school audi-
 torium; furnish and install audi-
 torium seats; drapery for stage
 and auditorium.
 Owner—San Rafael High School Dis-
 trict (Oliver R. Hartzell, secretary
 Board of Education).
 Architect—N. W. Sexton, deYoung
 Bldg., San Francisco.
Asbestos Curtains & Draperies—Fred.
 Turner Co., P. O. Box 501, Stock-
 ton.

As previously reported auditorium
 chairs awarded to Fred. Turner Co.,
 P. O. Box No. 501, Stockton.
SAN RAFAEL, Marin Co., Cal.—
 Until October 2, 5 P. M., bids will be
 received by Oliver R. Hartzell, Sec-

retary, Board of Education, to fur-
 nish and install basketball goals in
 gymnasium and also furnish bleachers
 and other furniture and equipment
 including musical instruments and in-
 structional apparatus for high school.
 Specifications and further informa-
 tion obtainable from secretary.

Preparing Preliminary Plans.
ADDITIONS Cost, \$150,000
SAN FRANCISCO, E Scott St. bet.
 O'Farrell and Geary Sts.
 Addition to Girls' High School.
 Owner—City & County of San Fran-
 cisco.
 Architect—F. H. Meyer, 525 Market
 Street.

Contract Awarded.
SCHOOL Cont. price, \$16,636
CAMINO, El Dorado Co., Cal.
 One-story English type stone and
 brick school (two classrooms and
 auditorium).
 Owner—Camino School District.
 Architect—W. E. Coffman, Forum
 Bldg., Sacramento, and 3529 Em-
 erson St., Oakland.
 Contractor—Guth & Fox, 1516 27th St.,
 Sacramento.

Sub-Contracts Awarded.
SCHOOL Cont. price, \$25,936
HILLSBOROUGH, San Mateo Co., Cal.
 One-story frame and stucco audi-
 torium addition and three covered
 passageways connecting buildings
 (tile roof).
 Owner—Hillsborough School District.
 Architect—Willis Polk Co., 277 Pine
 St., San Francisco.
 Contractor—Jacks and Irvine, 71 New
 Montgomery St., San Francisco.
Reinforcing Steel and Mesh—W. C.
Hauke & Co., 280 San Bruno Ave.,
 San Francisco.
Awning Type Windows—Universal
Window Co., 1916 Broadway, Oak-
 land.
Stairs—F. M. Phillips, 718 Bryant St.,
 San Francisco.

Other awards will be made shortly.
 Warm air and natural gas furnace
 heating is provided; also tile roofing.

Construction Postponed Indefinitely
SCHOOL Cost, \$—
CARMEL, Monterey Co., Cal.
 Primary unit for school.
 Owner—Sunset School District.
 Architect—Swartz & Ryland, Spazier
 Bldg., Monterey.

CALISTOGA, Napa Co., Cal.—
 Until October 10, 7:30 P. M., bids will
 be received by Calistoga Joint Union
 High School District, to construct
 tennis courts; cement pavement, 4-
 inch thick and 90x118 feet. Grading
 and filling and packing 275 cubic
 yards. A 12-ft. fence about the en-
 tire court of galvanized wire mesh
 1½-inch and No. 18 wire attached to

1½-inch galvanized pipe; 3 gates of
 1-inch galvanized pipe, also four net
 posts set in concrete. Further in-
 formation obtainable from clerk of dis-
 trict.

Plumbing and Heating Contracts
Awarded.

PLUMBING & HEATING Cost, \$—
BURLINGAME, San Mateo Co., Calif.
 Bellevue and Primrose Road.
 Plumbing and heating (separate con-
 tracts) for library.
 Owner—City of Burlingame, J. R.
 Murphy, city clerk.
 Architect—E. L. Norberg, 580 Market
 St., San Francisco.

Heating—James A. Nelson Co., Tenth
 and Howard Sts., S. F., \$4,180.

Plumbing—F. J. Regan, 1515 Willow
 St., Burlingame, \$1,000.

Following is a complete list of bids:
Heating

J. A. Nelson Co., San Francisco \$4,180
 Morrison & Blair, San Francisco 4,772
 Knittle Bros., San Francisco 4,953
 H. R. Park, Burlingame 5,053
 F. J. Regan, Burlingame 5,389

Plumbing
 F. J. Regan, Burlingame \$1,000
 H. R. Park, Burlingame 1,230
 Morrison & Blair, San Francisco 1,142

Plans Being Figured—Bids Close Oct.
 4, 1:30 P. M.

SCHOOL Cost, \$—
HAYWARD, Alameda Co., Cal.
 School building.
 Owner—Independent School District.

B. H. Manter, Clerk, Route 3, Box
 290, Hayward.

Architect—Not Given.

Certified check 10% payable to
 Board of Trustees of District re-
 quired with bid. Plans obtainable
 from clerk on deposit of \$10, return-
 able.

BERKELEY, Alameda Co., Cal.—
 Until October 6, 11 A. M., bids will
 be received by the Regents of the
 University of California, Berkeley, for
 installation of:

- (1) Plumbing equipment, heating
 and ventilating;
- (2) Electric Equipment,
- (3) Refrigeration and Air Condi-
 tioning Apparatus in the buildings of
 the Engineering Group, University of
 California. This project comprises a
 group of buildings, one a 4-story class
 B main building (40,000 sq. ft.); 2-
 story Hesse Hall (8,000 sq. ft.), and
 one 2- and 3-story laboratory (30,000
 sq. ft.). G. W. Kelham, architect, 315
 Montgomery St., San Francisco; H. J.
 Brunner, engineer, Sharon Bldg.,
 San Francisco. Total estimated cost \$65-
 000. Plans obtainable from Cashier's
 Window, California, Hall, Berkeley, on
 deposit of \$100, returnable.

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To Vote Bonds.
SCHOOL Cost, \$230,000
VALLEJO, Solano Co., Calif.
Class C brick or concrete junior high school.

Owner—Vallejo Jr. High School Dist.
Architect—Davis Pearce Co., Grant and Weber Sts., Stockton.

Bond election will probably be called Nov. 4th, to vote bonds to finance construction.

COALINGA, Fresno Co., Cal.—Until October 8, 7:30 P. M., bids will be received by F. J. McCollum, clerk, Coalinga Union High School District, for approximately 526 lin. ft. of slate blackboard, four feet wide, or approx. 2,104 sq. ft.; same to be installed in nine rooms in the high school. Bidders to specify whether material offered is Pennsylvania Split Slate or Italian Slate, submitting sample with bid. Certified check 10% required with bid.

Plans Being Prepared.
SCIENCE BLDG. Cost, \$120,000
SANTA BARBARA, Cal. Santa Barbara State College.
Two-story science building (8 laboratories; 2 classrooms).
Owner—State of California.
Architect—Geo. B. McDougall, Public Works Bldg., Sacramento.

Bids Opened.
SCHOOL Cost, \$—
PACIFIC GROVE, Monterey Co., Cal. Install complete heating system in High School Addition.
Owner—Pacific Grove High School District, D. J. J. Williams, Clerk.
Architect—W. H. Weeks, 111 Sutter St., San Francisco, and Bank of Italy Bldg., San Jose.
Following is a complete list of bids received:
James A. Nelson, Inc., Tenth and Howard Sts., S. F. \$6520
Barton Oil-O-Matic Co., Monterey 6550
Scott Co., San Francisco 6877
Wm. Serpa, San Jose 7177
George A. Schuster, Oakland 7420
Pearson Tolle, Monterey 7797
Phillips Plumbing Co., Inc., Monterey 8359
Bids held under advisement.

Plans Being Completed.
ADDITION Cost, Approx. \$10,000
MOSS LANDING, Monterey Co., Cal. One-story frame addition to present school (2 classrooms).
Owner—Moss Landing School District
Architect—W. H. Weeks, Hunter-Dulin Bldg., San Francisco; 1736 Franklin St., Oakland, and Bank of Italy Bldg., San Jose.
Bids will be taken in about ten days

Bids Rejected.
SCHOOL Cost, \$15,000
EMERYVILLE, Alameda Co., Cal. Sixty-first St. and Doyle Ave.
One-story brick elementary school (4 rooms).
Owner—Emeryville School District.
Plans by S. Arnold, High School, Emeryville.
Lowest bid was submitted by Gaubert Bros., 4735 Brookdale Ave., Oakland, at \$21,500.

Plans Being Completed.
SCHOOL Cost, \$650,000
SAN FRANCISCO. Noe and 25th Sts. Class A Junior High School building (three story concrete and terra cotta to accommodate approx. 800 students).
Owner—City and County of San Francisco.
Architect—W. H. Crim, 488 Pine St.
Bids will be taken in about 30 days.

SAN JOSE, Santa Clara Co., Cal.—Until October 14, 8 P. M., bids will be received by Walter L. Bachrodt, secretary, Board of Education, to furnish and install window shades in the Herbert Hoover Junior High School. Specifications obtainable from office of City Superintendent of Schools.

BANKS, STORES & OFFICES

Plans Being Figured — Bids Close Sept. 30.
ALTERATIONS Cost, \$100,000
SAN FRANCISCO. St. Francis Hotel (Powell, Geary and Post Sts.)
Alter mural room for restaurant and sweet shop
Owner—St. Francis Hotel.
Architect—W. B. Fayille, Crocker 1st Nat'l Bank Bldg., San Francisco.
Lessee—Pig'n Whistle Corp.

Contract Awarded.
CAFE Cost, \$60,000
SAN FRANCISCO. N Columbus Ave. from Chestnut St. to Houston.
Frame and concrete cafe.
Owner—Frank Martinielli, 3743 Scott Street.
Architect—Miller & Pfeuffer, 580 Market St.
Contractor—J. Martinelli, 1355 Francisco St.
Will contain dining room, 60x120-ft., large lobby, ladies' lounge, men's smoking room, private dining rooms, special illuminating features on interior and exterior. The exterior is to be faced with glazed tile with an entrance of illuminated glass.

Segregated Bids Being Taken By Selected List of Contractors.
REMODELING Cost, \$40,000
SAN FRANCISCO. Stockton St. and Maiden Lane.
Remodel present 3-story building for confectaurant.
Owner—Dr. Felix Lengfeld.
Plans by L. and E. Emanuel, 2665 Jones Street.
Lessee—Foster & Orear.
Construction will start in a few days.

Plans Being Completed.
BANK Cost approx. \$20,000
CASTROVILLE, Monterey Co., Cal. One-story brick bank.
Owner—Monterey County Trust and Savings Bank, Salinas.
Architect—H. H. Winner Co., 580 Market St., San Francisco.
Bids will be taken in one week.

Excavating Contract Awarded.
OFFICES Cost, \$75,000
SAN FRANCISCO. Third and Arthur Streets.
Two-story and basement reinforced concrete and steel offices and cold storage building.
Owner—H. Moffatt & Co., 3rd and Arthur Sts.
Engineer—Ellison & Russell, Pacific Building.
Contractor—Barrett & Hilp, 918 Harrison St.
Excavating—Sibley Grading & Teaming Co., 165 Landers St.

Contract Awarded — Sub-Bids Being Taken.
FILM EXCHANGE Cost, \$100,000
SAN FRANCISCO. Eddy and Hyde Streets.
Two two-story reinforced concrete film exchange buildings.
Owner—Bell Bros., Mills Bldg., San Bryant Sts.
Architect—O'Brien Bros. and W. D. Peugh, 315 Montgomery St., San Francisco.
Contractor—Cahill Bros., 206 Sansome St., San Francisco.
Steam heating system, concrete film vaults, etc. Construction will start in one week.

Plans Being Prepared.
STORES Cost, Approx. \$75,000
OAKLAND, Alameda Co., Cal. SW Nineteenth and Broadway.
Group of one-story steel frame and terra cotta shops and stores.
Owner—Twentieth and Broadway Realty Co., Oakland.
Architect—Albert J. Evers, 525 Market St., San Francisco.

Plans Being Figured.
STORE Cost, \$3000
MT. VIEW, Santa Clara Co., Cal. One-story reinforced concrete store (23x42-ft.)
Owner—W. P. Wright, Mt. View.
Architect—Charles McKenzie, Twohy Bldg., San Jose.

Preparing Preliminary Sketches.
OFFICES Cost, \$2,800,000
SAN FRANCISCO. Civic Center.
Four-story and basement class A Federal office building.
Owner—U. S. Government.
Architect—Arthur Brown, Jr., 251 Kearny St.

Plans Being Completed.
STORE Cost, \$12,000
WOODLAND, Yolo Co., Cal. One-story frame jewelry store (15x60 feet).
Owner—Mrs. Frankie Payne, Woodland.
Architect—W. H. Weeks, 111 Sutter St., San Francisco.

Owner—Taking Bids—To Be Opened Oct. 9, 12 Noon.
ANNEX Cost, \$2,000,000
SAN FRANCISCO. Bush Street near Montgomery St. (50x137-ft.)
Twenty-two-story class A reinforced concrete annex to building.
Owner—Mills Estate, Inc. (Curtis D. O'Sullivan, president), Mills Bldg.
Architect—Louis P. Hobart, Crocker Building.
Bids are being taken from a selected list of contractors.

Sub-Contracts Awarded.
BUILDING Cost, \$10,000
SAN FRANCISCO. S Bay St. E Jones One-story class C brick building.
Owner—Commercial Center Realty Co., 916 Kearny St.
Architect—H. C. Baumann, 251 Kearny Street.
Contractor—Ralph McLoran and Co., Hearst Bldg.
Electric Work—Decker Elec. Co., 538 Bryant St.
Lumber—San Francisco Lumber Co., foot of Mason St.
Mill Work—Empire Planing Mill, 750 Bryant St.
Sheet Metal—Morrison & Co., 74 DuBoce Avenue.
Structural Steel—Western Iron Wks., 141 Beale St.
Glass—Crawe Glass Co., 675 Golden Gate Ave.
Plastering—Sam Greenbach, Hearst Bldg.
Plumbing—Frank Davidson, 2270 Filbert St.
Steel Sash—Michel and Pfeffer Iron Works, Harrison and 10th Sts.
Masonry—White & Gloor, Monadnock Bldg.

September 22, 1930
Preliminary Estimates In.
REMODELING Cost, \$40,000
SAN FRANCISCO. Stockton St. and Maiden Lane.
Remodel present 3-story building for confectaurant.
Owner—Dr. Felix Lengfeld.
Plans by L. and E. Emanuel, 2665 Jones Street.
Lessee—Foster & Orear.
General bids will be taken in a few days from contractors who have already submitted estimates.

Preparing Working Drawings.
STONE BLDG. Cost, \$50,000
SAN JOSE, Santa Clara Co., Calif.
 Sixth and St. John Sts.
 One- and two-story frame and cast
 stone veneer physicians' building
 (cover area of 7500 sq. ft.)
 Owner—Group of Local Physicians.
 Architect—Herman Krause, P. O. Box
 753, San Jose.
 Bids will be taken in about 3 weeks.

Contract Awarded.
STORE Cost, \$5500
BERKELEY, Alameda Co., Cal. No.
 889 Encenaeo Avenue.
 One-story Class C store.
 Owner—Dr. H. R. Painton, 4601 Mis-
 sion St., San Francisco.
 Plans by G. H. Vore, 1466 87th Ave.,
 Oakland.
 Contractor—H. Pearson, 1906 Ber-
 rymann St., Berkeley.

Contract Awarded.
ALTERATIONS Cost, \$—
OAKLAND, Alameda Co., Calif. 7th
 and Washington Sts.
 Alterations and additions to store and
 rooming house (15 stores).
 Owner—A. G. Moffitt.
 Architect—Sidney, Noble and Archie
 Newsom, 1615 Broadway, Oakland.
 Contractor—F. C. Stolte, 10 Glen Al-
 pine, Oakland.

Sub-Bids Being Taken.
STORE Cost, \$16,000
BERKELEY, Alameda Co., Cal. Shat-
tuck Ave. and Allston Way.
 Two-story brick and steel store.
 Owner—C. R. Roberts.
 Architect—E. L. Snyder, 2101 Shattuck
 Ave., Berkeley.
 Contractor—Beckett & Wight, 722
 Scenic Ave., Berkeley.

Construction Indefinitely Postponed.
ADDITION Cost approx. \$150,000
SAN FRANCISCO. 260 California St.
 Two-story class A reinforced concrete
 addition to present 10-story build-
 ing.
 Owner—Newhall Estate, premises.
 Architect—Lewis P. Hobart, Crocker
 Bldg.

Sub-Contracts Awarded.
REPAIRS Cost, \$25,000
OAKLAND, Alameda Co., Cal. West
Broadway N 21st St.
 Fire repairs to building.
 Owner—Hamburger & Kern, 110 Sut-
 ter St., San Francisco.
 Contractor—F. A. Muller, 805 Syndi-
 cate Bldg., Oakland.
Painting—Lake Decorating Co., 2349
Waverly St., Berkeley.
Electric—Scott-Buttner Co., 19 Grand
Ave., Oakland.
Lumber and Mill Work—E. K. Wood
Lumber Co., Frederick and King
Sts., Oakland.
Elevators—Otis Elevator Co., 1 Beach
St., San Francisco.
Roofing—A. K. Goodmundsen, Clement
and 45th Ave., Oakland.

Contract Awarded.
STORE Cost, \$80,000
SAN FRANCISCO. 2713 Mission St.
 Three-story concrete store.
 Owner—S. H. Kress Co., 621 S Broad-
 way, Los Angeles.
 Plans by Eng. Dept. of Owner.
 Contractor—K. E. Parker Co., 135 So.
 Park.

Plans Being Prepared.
STORE Cost, \$—
RICHMOND, Contra Costa Co., Cal.
 Cutting Blvd. and 15th St.
 One-story frame and stucco grocery
 store (Spanish type).
 Owner—A. S. Whiteside, Richmond.
 Architect—James Narbett, 474 31st
 St., Richmond.

Contract Awarded.
STORE Cost, \$16,000
BERKELEY, Alameda Co., Cal. Shat-
tuck Ave. and Allston Way.
 Two-story brick and steel store.
 Owner—C. R. Roberts.
 Architect—E. L. Snyder, 2101 Shattuck
 Ave., Berkeley.
 Contractor—Beckett & Wight, 722
 Scenic Ave., Berkeley.

THEATRES

Plans Being Completed.
THEATRE Cost, \$—
OAKLAND, Alameda Co., Cal. Broad-
way, Franklin and 20th Sts.
 Class A theatre (seating 3500).
 Owner—Albert Kearne, Samuel Ham-
 burger et al.
 Architect—G. Albert Lansburgh, 140
 Montgomery St., San Francisco.
 Lessee—Warner Brothers.
 A 30-year lease has been taken on
 the property.
 Bids will be called for some time
 during the month of October.

LODI, San Joaquin Co., Cal.—T. &
D. Jr. Enterprises, Inc., have
purchased the T. & D. Jr. Theatre from
the Lodi Investment Company for a
consideration of \$50,000. The struc-
ture will be remodeled and "talkies"
installed.

Plans Being Figured.
REMODELING Cost, \$—
FRUITVALE, Alameda Co., Cal. 3720
E 14th Street.
 Remodel theatre (enlarge foyer).
 Owner—Golden State Theatres, Inc.
 Architect—Reid Bros., 105 Montgom-
 ery St., San Francisco.

Completing Plans.
THEATRE Cost, \$300,000
PHOENIX, Arizona. First and Wash-
ington Sts.
 Two-story Class A reinforced concrete
 theatre (150x200 ft.) to seat 1700.
 Owner—Fox West Coast Theatres.
 Architect—S. Charles Lee, Petroleum
 Securities Bldg., Los Angeles.

WHARVES AND DOCKS

SAN FRANCISCO.—Rolph Mills Co.,
525 Market St., at \$10,449 awarded
contract by State Board of Harbor
Commissioners, Ferry Bldg., for fur-
nishing and installing 31 steel rolling
doors for Pier No. 1. Frank White,
engineer, Ferry Bldg.

MISCELLANEOUS CONSTRUCTION

HANFORD, Kings Co., Cal.—Until
October 3, 7 P. M. bids will be
received by D. C. Williams, city clerk,
 to erect complete, furnishing all labor
 and materials of a chain link fence,
 4 feet high and 1,000 feet in length at
 Hanford Municipal Airport. Alternate
 bids will be considered to furnish
 materials, f.o.b. cars, Hanford. Cer-
 tified check 10% payable to city re-
 quired with bid.

COLUSA COUNTY, Cal.—Until
October 1, 2 P. M. bids will be
 received by C. H. Whitmore, district
 engineer, State Highway Commis-
 sion, 502 State Office Bldg., Sacra-
 mento, to construct 9 miles of prop-
 erty fence on state highway between
 Bear Creek and 8 miles west of Wil-
 liams.

SANTA BARBARA, Calif.—Until 10
A. M., Oct. 6, bids will be received
 by the county supervisors to construct
 a reinforced concrete retaining wall
 around a rectangle 30x155 ft., located

at Gaviota Park. Plans may be ob-
 tained from the county auditor on
 deposit of \$5. Certified check 10%. J.
 F. Hunt, clerk of the board.

Preparing Working Drawings.
AUTO CAMP Cost approx. \$15,000
MARTINEZ, Contra Costa Co., Calif.
 Location not selected.
 Auto camp (36 1-story frame cabins).
 Owner—Name Withheld.
 Architect—L. F. Hyde, 372 Hanover
 St., Oakland.
 Bids will be taken in one week.

OAKLAND, Calif.—Chainlink Fence
Co., 39 Natoma St., San Francisco, at
\$137 awarded contract by East Bay
Municipal Utility District to furnish
material for fencing at district yards
in Russett St.

SAN JOSE, Santa Clara Co., Cal.—
Garden City Electric Co., 44 W-San
Fernando St., San Jose, at approxi-
mately \$1000 awarded contract to in-
stall lighting equipment at the San
Jose airport at King and Tully Rds.

Contract Awarded.
STABLES Cost, price, \$43,457
WOODSIDE, San Mateo Co., Cal.
 Stables (frame construction).
 Owner—John Rosekrane.
 Architect—Bakewell and Welhe, 251
 Kearny St., San Francisco.
 Contractor—Charles Stockholm, Russ
 Bldg.

SAN FRANCISCO.—Bethlehem Ship-
building Corp., Ltd., at \$105 awarded
contract by Board of Fire Commis-
sioners for drydocking, repainting
and general repairs to the fireboats
"David Scannell" and "Dennis T.
Sullivan."

September 25, 1930

Contract Awarded.
ALTERATIONS Cost, \$20,000
ARENA, Merced Co., Calif.
 Alterations and additions to residence,
 bath house, stables and garage.
 Owner—M. C. Jenkins, Arena.
 Architect—W. W. Wurster, 260 Cal-
 ifornia St., San Francisco.
 Contractor—M. B. Folsom, 219 217th St.
 Merced.

Contract Awarded.
ADDITION Cost, \$—
WOODSIDE, San Mateo Co., Calif.
 Family Farm.
 Concrete and frame kitchen and din-
 ing room (50x150-ft.).
 Owner—Family Farm, Woodside.
 Architect—Miller & Pflueger, 580 Mar-
 ket St., San Francisco.
 Contractor—Lindgren and Swinerton,
 Inc., 225 Bush St., San Francisco

MISCELLANEOUS SUPPLIES AND MATERIALS

VALLEJO, Solano Co., Cal.—Until
October 7, 4 P. M., bids will be re-
 ceived by Elmer L. Cave, secretary,
 Board of Education, to furnish and
 deliver fuel oil for schools for the
 year 1930-31. Bids must include pro-
 position for servicing oil burners and
 rebricklay fire boxes at cost of ma-
 terials only.
 McKinley, Bay Terrace, Lincoln
 Junior High and Senior High Schools
 approximately 30,000 gallons of com-
 mercial fuel oil having gravity baume
 of not less than 16.

Charles F. Curry, Roosevelt and
 Grant Schools approximately 12,000
 gallons of Diesel fuel oil having
 gravity baume of not less than 26.
 Further information obtainable from
 secretary.

OAKLAND, Cal.—Stauffer Chemical Co., 624 California St., San Francisco, awarded contract by East Bay Municipal Utility District, to furnish aluminum sulphate for use during fiscal year 1930-31.

BUSINESS OPPORTUNITIES

Wm. Isler, secretary-treasurer, Just Manufacturing Co., Canton, Ohio, seeks a reliable manufacturer's agent or jobber in California to handle the sale of a new patented indoor table golf game.

Hugh Ridenour, 717 Beakey Ave., Portland, Ore., is anxious to get in touch with manufacturers of a specialty or staple line of merchandise having merit and sales possibilities that are not represented in Oregon or the Pacific Northwest.

OFFICIAL PROPOSALS

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received at the office of the State Highway Engineer, Public Works Building, Sacramento, California, until 2 o'clock P. M. on October 15, 1930, at which time they will be publicly opened and read, for construction in accordance with the specifications therefor, to which special reference is made, of portions of State Highway, as follows:

Humboldt County, at High Rock Hill (I-Hum-1-D), about four-tenths (0.4) mile in length, to be graded and surfaced with untreated crushed gravel or stone.

Solano County, five concrete bridges between Vacaville and Dixon (X-Sol-7-D), to be widened to a clear roadway width of twenty-eight feet (28').

Proposal forms will be issued only to those Contractors who have furnished a verified statement of experience and financial condition in accordance with the provisions of Chapter 644, Statutes of 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Bids will not be accepted from a contractor to whom a proposal form has not been issued by the Department of Public Works.

Plans may be seen, and forms of proposal, bonds, contract and specifications may be obtained at the said office, and they may be seen at the offices of the District Engineers at Los Angeles and San Francisco, and at the office of the District Engineer of the district in which the work is situated. The District Engineers' offices are located at Eureka, Redding, Sacramento, San Francisco, San Luis Obispo, Fresno, Los Angeles, San Bernardino and Bishop.

A representative from the district office will be available to accompany prospective bidders for an inspection of the work herein contemplated, and Contractors are urged to investigate the location, character and quantity of work to be done, with a representative of the Division of Highways. It is requested that arrangements for joint field inspection be made as far in advance as possible. Detailed information concerning the proposed work may be obtained from the district office.

No bid will be received unless it is made on a blank form furnished by the State Highway Engineer. The

special attention of prospective bidders is called to the "proposal Requirements and Conditions" annexed to the blank form of proposal, for full directions as to bidding, etc.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS,
C. H. PURCELL,
State Highway Engineer.
Dated September 17, 1930.

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received by the Department of Public Works, Division of Highways, at the office of the District Engineer, 502 State Office Building, Sacramento, California, until 2:00 o'clock P. M. on October 1, 1930, at which time they will be publicly opened and read, for performing work as follows:

Colusa County, between Bear Creek and 8 miles west of Williams, a distance of about nine (9) miles, road III-Col-15-D, constructing property fence.

Plans may be seen, and forms of proposal, bonds, contract and specifications may be obtained at the above address.

No bid will be received unless it is made on a proposal form furnished by the District Engineer. Each bid must be accompanied by cash or a certified or cashier's check made payable to the Director of Public Works, for an amount equal to at least ten (10) per cent of the amount bid, such guaranty to be forfeited should the bidder to whom the contract is awarded fail to enter into the contract.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS,
C. H. PURCELL,
State Highway Engineer.
By C. H. WHITMORE,
District Engineer, Dist. III
Dated September 18, 1930.

ADVERTISEMENT FOR BIDS

Subject to conditions prescribed by the undersigned, sealed bids are invited for Installation of (1) Plumbing Equipment, Heating and Ventilating, (2) Electric Equipment; (3) Refrigeration and Air Conditioning Apparatus in the buildings of the Engineering Group, University of California, Berkeley, California. No bids received after 11:00 A. M. Monday, October 6, 1930. The right to reject any and all bids is reserved. For full information apply to Cashier's Window, California Hall, University of California, Berkeley. A deposit of \$100 is required for each set of Drawings and Specifications.

THE REGENTS OF THE UNIVERSITY OF CALIFORNIA

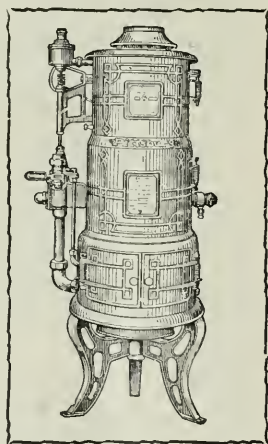
OPENS NEW QUARTERS

The Bell Paint and Glass Company, Sacramento's newest wholesale and retail concern, has opened quarters at 1327 J St., in the capital city.

The concern is owned by Irving M. Arm, who has been in the paint and glass business for the past 22 years and who operated the Bell Glass Co. at 1324 Del Paso Blvd. in North Sacramento for a year.

Prior to going to Sacramento, Arm was in Oakland and New York. He learned the business in Paris, France, coming to the United States about 15 years ago.

The Bell Paint & Glass Company will handle complete lines of paints, glass, brushes, other painters' supplies and wallpaper.



A "Pittsburg" Automatic Water Heater installed in the Home indicates high quality throughout.

Recommended and specified by all the leading architects, plumbers and builders

Consider the high merit of the Pittsburg coupled with "Pittsburg Perfect Service."

"Hot water quick as a wink."

Pittsburg Water Heater Co.

Makers of "Pittsburg Automatic"—"Bungalow Automatic"

Storage Systems and "Lyon" Tank Water Heaters.

309 13th Street, Oakland

478 Sutter St., San Francisco

SEND FOR CATALOGS

Engineering News Section

BRIDGES

SOLANO COUNTY, Cal.—Until October 15, 2 P. M., bids will be received by State Highway Commission to widen to a clear roadway width of 28 feet, five concrete bridges between Vacaville and Dixon.

SANTA BARBARA, Calif.—Until 10 A. M., Oct. 6, bids will be received by the county supervisors to construct structural steel bridge with reinforced concrete deck, web and wing walls over San Jose Creek on Patterson Ave. in the 3rd Road District, 3rd Township. Plans may be obtained from the county surveyor upon deposit of \$5. Certified check 10%. D. F. Hunt, clerk

EUREKA, Humboldt Co., Cal.—Until October 14, 2:30 P. M., bids will be received by Fred M. Kay, county clerk, to construct bridge near the Cochran Ranch in District No. 5. Plans obtainable from County Surveyor Frank Kelly at Eureka.

EUREKA, Humboldt Co., Cal.—W. S. Salvage, Eureka, at \$619.50 and 34c cu. yd. for embankment, \$1.30 lin. ft. for 12-in. culverts, \$1.78 lin. ft. for 18-in. culverts, awarded contract by county supervisors to construct bridge on Arcata bottom near Cachran ranch connecting Arcata Rd. with road running to the north. Other bids:

Smith Bros. Co., bridge, \$933; embankment, 47c; 12 in. culvert, \$2, 18 in. \$3.

Henry Padgett, bridge, \$1236; embankment, 54c; 12 in. culvert, \$2.10; 18 in. \$2.65.

Mercer-Fraser Co., bridge, \$1390; embankment, 56c; 12 in. culvert, \$1.50, 18 in., \$2.

Engelhart Paving & Constr. Co., bridge, \$1500; embankment, 47c; 12-in. culvert, \$1.75, 18 in. \$2.50.

Bruce Markle, bridge, \$1800; embankment, 33½c; 12-in. culvert, \$2.50 18 in., \$2.50.

EL CERRITO, Contra Costa Co., Cal.—City Engineer Ross L. Calfee is preparing plans for culverts at Barrett Ave. and Edward St. and at Edward St. and Poinsettia Ave. It is also proposed to provide culverts at Barrett Ave. and Tulare St. and in Johnston Ave. west of Edward St.

LOS ANGELES, Cal.—Oberg Bros., 3470 Hollenbeck Ave., Los Angeles, at \$153,400 awarded contract by county supervisors to construct a concrete bridge across the Los Angeles River at Atlantic Ave., just north of May-st. Cash contract. Project involves: 4973 cu. yds. concrete; 603,660 lbs. reinf. steel; 12,686 ft. conc. piling; 6340 cu. yds. excav.; 15,112 lbs. steel castings; 10,295 lbs. steel plates; 5156 lbs. expansion angles; 245 bronze plates for light posts; 1225 ft. 1½-in. conduit; 160 ft. class D cable; 3055 lbs. sheet lead; 2464 lbs. anchor bolts; 477 lbs. sheet copper.

BAKERSFIELD, Kern Co., Cal.—Stroud Bros. and Seabrook Bakersfield, at \$5817 awarded contract by city council to construct two cement concrete culverts, one at 34th St. and Kern Island Canal and another at 24th

St. and Low Canal. Complete list of bids follows, all bidders of Bakersfield:	
Stroud Bros. & Seabrook.....	\$5817
Currie & Duglar.....	5877
G. A. Graham.....	6396
Weitzel & Larsen.....	6547
Moon & Moon.....	6570
Clark Gramling.....	6755
Dean & Stroble.....	6873

DREDGING, HARBOR WORKS & EXCAVATIONS

RICHMOND, Contra Costa Co., Cal.—City council has been advised by Lieut. Col. Thomas M. Robins, U. S. Engineer in Charge of Rivers and Harbors in this district, that the Federal Government is prepared to proceed with completion of the restraining wall in Richmond harbor by extending it 3,000 ft. to make a wall 10,000 ft. long. The estimated cost is \$190,000 of which the city is to pay one-half. The Government proposes to dredge the entire channel to a depth of 23 ft. with the completion of the wall and to deepen the entire channel to 30 ft. in 1934.

OAKLAND, Cal.—Until September 29, 4:30 P. M., bids will be received by G. B. Hegardt, secretary, City Port Commission, 421 Oakland Bank Bldg., for dredging fronts of slips at Grove Street Pier involving approximately 14,000 cubic yards of material to be removed. Specifications obtainable from above.

MONTEREY, Monterey Co., Cal.—Engineer Francis Betts Smith, 58 Sutter St., San Francisco, is preparing plans for submission to the city council to widen the top of the present seawall from 12 ft. to 20 ft. permitting greater storage capacity, also to permit the construction of smaller wharves radiating out from the present causeway.

COTATI, Sonoma Co., Calif.—Paris Bros., Berkeley, awarded contract by Cotati Co. for digging approximately 10 miles of drainage ditches on the company's holdings. Ditches will be 5 ft. wide at the top, 2 ft. at the bottom and approximately 4-ft. deep.

SANTA BARBARA, Calif.—Shannahan Bros., San Fernando Bldg., Santa Barbara, at \$54,000 awarded contract by city council to construct E Cabrillo Blvd. wall or revetment.

STOCKTON, San Joaquin Co., Cal.—Until October 2, 3 P. M., under Circular Proposal No. 31-84, Specifications No. 2377, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, for clearing brush and trees from the area of Item 316, along the west bank of the San Joaquin River, on McDonald Tract, between Spud Island and McDonald Pump, a distance of about 12 miles below Stockton. Specifications obtainable from above office.

STOCKTON, San Joaquin Co., Cal.—Until October 2, 3 P. M., under Circular Proposal No. 31-83, Specifications No. 2350, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, for clearing brush and trees from the area of Items 307 and 308 along the Easterly bank of the San Joaquin River be-

tween the mouth of the Calaveras River and Twelve Mile Slough, distances of about 5 and 6½ miles below Stockton. Specifications obtainable from above office.

IRRIGATION PROJECTS

MERCED, Merced Co., Cal.—Until October 7, 10 A. M., bids will be received by H. P. Sargent, secretary, Merced Irrigation District, to furnish 4,000 barrels of Portland cement, to which has been added at the cement mills 3 lbs. of Celite to each 94 lbs. of cement. Cement must be manufactured in the state of California. Delivered to district in commercial cement cloth and/or paper sacks in carload lots, f.o.b. Merced or any other railroad station within the district. Prices shall be quoted for delivery at Merced, with the understanding that such adjustments in prices will be made for cement delivered at other points as shall be proper in view of the difference in freight rates.

Most of the cement will be used in the concrete lining of canals and the construction of certain structures, and while it is expected that the greater portion of the work will be completed by June 1, 1931, it is possible that some deliveries of cement may be required at intervals up to September 30, 1931. Deliveries are to be made in such quantities and at such times as the District shall direct upon a maximum of three days' notice. Certified check 5% payable to district required with bid.

MERCED, Merced Co., Calif.—Until October 7, 10 A. M., bids will be received by H. P. Sargent, secretary, Merced Irrigation District, for shaping and concrete lining of approximately six miles of existing canals and installing side gates and other structures. Bids are wanted under fifteen schedules as follows:

- No. 1—Hammatt Canal, 5,600 lin. ft. or 100,000 sq. ft., 2-in. lining.
- No. 2—Jordan Canal, 3,000 lin. ft. or 47,000 sq. ft. do.
- No. 3—McCoy (Raser) Canal, 1,500 lin. ft. or 30,000 sq. ft., 2-in. lining.
- No. 4—Cooper Ditch, 2,300 lin. ft. or 26,000 sq. ft. do.
- No. 5—Martin Canal, 2,300 lin. ft. or 33,000 sq. ft. do.
- No. 6—McCoy Canal, 3,000 lin. ft. or 47,000 sq. ft. do.
- No. 7—Wakefield Canal, 1,200 lin. ft. or 18,000 sq. ft. do.
- No. 8—Buhach Canal, 2,500 lin. ft. or 32,000 sq. ft. do.
- No. 9—Pohle Canal, 1,700 lin. ft. or 17,000 sq. ft. do.
- No. 10—North Bloom Canal, 1,400 lin. ft. or 16,000 sq. ft. do.
- No. 11—Tin Flume Canal, 2,500 lin. ft. or 30,000 sq. ft. do.
- No. 12—Buhach Canal (By Well 28), 1,800 lin. ft. or 27,000 sq. ft. do.
- No. 13—Le Grand Lateral (7), 2,300 lin. ft. or 27,000 sq. ft. do.
- No. 14—Le Grand Lateral (19), 900 lin. ft. or 15,000 sq. ft. do.
- No. 15—Fairfield Canal, 2,800 lin. ft. or 49,000 sq. ft. do.

Certified check 5% payable to Merced Irrigation District required with bid. Plans obtainable from secretary on deposit of \$5. returnable.

EL NIDO, Merced Co., Cal.—Petitions are being circulated in the El Nido Irrigation District seeking a bond issue for \$135,000 to finance con-

struction of irrigation works to obtain water from the surplus available in the Merced Irrigation District. The California Bond Certification Commission has recommended such an issue.

STREET LIGHTING SYSTEMS

SAN JOSE, Santa Clara Co., Cal.—See "Streets and Highways," this issue. Improvement of Santa Clara St., bet. Market and Montgomery Sts., etc., involving installation of 60 electrolux together with underground system.

SOUTH SAN FRANCISCO, San Mateo Co., Cal.—Assistant City Engineer R. A. Klassen, in a report to the city council, estimates the city's lighting bill will be increased \$3402 annually with the contemplated installation of an electrolux system in Grand Ave., involving 187 standards. Property owners have petitioned for installation of the system.

RED BLUFF, Tehama Co., Cal.—City trustees contemplate installation of lighting system in Walnut St. Tentative estimates place the cost at \$4000.

SANTA BARBARA, Cal.—Until 1:30 P. M., Oct. 2, bids will be received by the city council to install lighting system in West Cabrillo Blvd., between State St. and Castillo St., involving King Ferronite type posts; 1911 Act. Bids were previously taken on this work August 14. Note—This work was previously noted as for Oct. 22. Correct date is Oct. 2, as shown above.

MACHINERY AND EQUIPMENT

WASHINGTON, D. C.—See "Government Work and Supplies," this issue. Bids wanted by Bureau of Supplies and Accounts, October 7, to furnish and deliver San Francisco, two 1000 lbs. capacity air hoists; one pipe threading and cutting machine; one motor-driven saw bench; 1 motor-driven bench drill, (delivered San Diego); one Universal Lathe.

SAN MATEO, San Mateo Co., Cal.—Until October 6, 10 A. M., bids will be received by J. J. Casey, clerk, San Mateo School District, to furnish and deliver one automobile school bus, 1929 model or later; capacity 40 pupils; equipped with motor of at least 18 hp. S. A. E. and of at least 4 cylinders.

OAKLAND, Cal.—Until October 9, 12 noon, bids will be received by Frank C. Merritt, city clerk, to furnish and deliver two gasoline street rollers for Street Department. Specifications on file in office of clerk. Walter N. Frickstad, city engineer.

ROSEVILLE, Placer Co., Cal.—Until October 1, 8 P. M., bids will be received by F. R. Chilton, city clerk, to furnish four automobiles: two of the express type with closed cab, one standard coupe, and one 1½-ton half pneumatic-tired truck. Allowances to be made for equipment no longer required by the city.

LOS BANOS, Merced Co., Cal.—Until October 1, 2 P. M., bids will be received by R. L. Puccinelli, clerk, Los Banos Elementary School District, to furnish and deliver a school bus, in accordance with specifications obtainable from Clerk. Allowance to

be made for bus no longer required by the district.

OAKLAND, Cal.—Brown Bros. Welding Co., 223 Main St., San Francisco, at \$1160 awarded contract by East Bay Municipal Utility District, to furnish one electric welder.

RAILROADS

CALIFORNIA.—Utah Const. Co., Phelan Bldg., San Francisco, and W. A. Bechtel Co., 155 Sansome St., San Francisco, have awarded the following sub-contracts for grading in connection with 112 miles of Western Pacific-Great Western R. R. project between Keddies and Bieber:

Keddies to Mile Post 4, Morrison-Knudsen Co., Boise, Idaho.

Mile Post 4 to Mile Post 8, Paul J. Tyler, Oroville.

Mile Post 8 to Mile Post 15, Lewis Const. Co., Los Angeles.

Mile Post 15 to Mile Post 19, Paul J. Tyler.

Mile Post 25 to Mile Post 40, Helselt Const. Co., Salt Lake City.

Mile Post 40 to Mile Post 78, Lewis Const. Co., Los Angeles.

Mile Post 78 to Mile Post 96, Fredrickson & Watson, Oakland.

Mile Post 96 to Bieber, W. H. Puckett Co., Boise, Idaho.

FIRE ALARM SYSTEMS

HUNTINGTON PARK, Cal.—Until 8 P. M., Oct. 6, bids will be received by city council for four automatic electric traffic signals at the inter. of Pacific Blvd. and Randolph St. Specifications may be obtained at the office of the city clerk, W. P. Mahood. Certified check or bond 10%.

RESERVOIRS AND DAMS

LAKEPORT, Lake Co., Cal.—City council rejects four bids to construct reinforced concrete reservoir in connection with water system and bids ordered re-advertised to be opened October 3. Rejection was ordered due to error in advertising. Plans are obtainable from F. L. Coles, city clerk.

DAILY CITY, San Mateo Co., Cal.—City Engineer R. A. Klassen, Court-house, Redwood City, is preparing plans for a 1,000,000 gallon reservoir to supplement the 800,000-gal. tank now in use in connection with the municipal water system.

OAKLAND, Cal.—C. A. Bruce and Son, Pleasanton, at \$2,944.50 (B) awarded contract by county supervisors to construct dam across Arroyo Del Valle Creek near the sanatorium. T. C. Little and P. C. Madson (B) only other bidders, at \$6,003.75. Unit bids follow:

145 cu. yds. excavation, above E1 64B, (A) \$3.50; (B) \$6.00;
50 cu. yds. excavation, below E1 64B, (A) \$3.50; (B) \$13.50;
80 cu. yds. excavation, rock, (A) \$6.00; (B) \$19.50;
155 cu. yds. concrete, (A) \$16.00; (B) \$16.50;
2900 lbs. steel, (A) \$.07; (B) \$.075;
330 sq. ft. 6-in. conc. apron, (A) \$.30; (B) \$.375.

MODESTO, Stanislaus Co., Calif.—City council and civic bodies are considering the proposal to dam the Tuolumne river, bounding the southern city limits, to form an artificial lake for recreational purposes. The improvement would permit motor boat racing and other water sports, in addition to providing a municipal pool.

PIPE LINES, WELLS, ETC.

MERCED, Merced Co., Calif.—Until October 7, 10 A. M., bids will be received by H. P. Sargent, secretary, Merced Irrigation District, for drilling and casing of three drainage wells. Certified check 5% payable to district required with bid. Specifications obtainable from secretary on deposit of \$5, returnable.

SEWERS AND SEWAGE DISPOSAL PLANTS

SANTA CRUZ, Santa Cruz Co., Cal.—Thompson Bros., Santa Cruz, at \$1,177 awarded contract by city council (460-C) to construct vitrified clay pipe main sanitary sewer with wye branches and brick manholes in Plateau Ave. bet. Woodrow Ave. and Columbia St.

WATSONVILLE, Santa Cruz Co., Cal.—City council orders construction of sewer connections in Monte Vista Ave. Estimated cost \$1100. H. B. Kitchen, city engineer.

LOS ANGELES, Cal.—City council sets November 4 as date to vote bonds of \$6,000,000 to finance construction of sewers in various sections of the city.

RENO, Nev.—I. Christensen Const. Co., Reno, only bidder at \$126,184 awarded contract by city council to construct sewer lines in various subdivisions, involving: 340 lin. ft. 6-in. 59,000 lin. ft. 8-in. and 1,300 lin. ft. 10-in. pipe; 145 sewer manholes.

MONTEREY, Monterey Co., Cal.—No bids received by city council September 16 (2997) to construct 6-inch vitrified sewer in Grace St., from Irving Ave. to point 25 ft. nw of Prescott Ave., including two manholes and 36 4-in. wye branches. It is proposed to enlarge the project and ask new bids. Howard Severance, city engineer.

REDWOOD CITY, San Mateo Co., Cal.—Until October 6, 7:30 P. M., bids will be received by B. E. Myers, city clerk, (M-14) to install ornamental street lighting system, 17 2-light standards, in Broadway between El Camino Real and Brewster Ave., etc., together with underground system. Union Metal Design No. 8092. 1911 Act. Bond Act 1915. Specifications obtainable from above. Certified check of 10% payable to city required. C. L. Dimmitt, city engineer.

FAIRFIELD, Solano Co., Calif.—County Surveyor Steiger instructed to secure estimates of cost from the Vallejo Electric Light & Power Co. to furnish electric energy for a 15-hp. pumping plant to be used in connection with the sewer system of Acq. and Imp. Dist. No. 1 in the Vallejo township.

ANTIOCH, Contra Costa Co., Cal.—City Engineer Leo C. Adams is preparing plans and will construct by day labor storm drains at three street intersections; estimated cost \$1,200.

PHOENIX, Ariz.—See "Waterworks," this issue. C. C. Kennedy, San Francisco engineer, to act in advisory capacity on sewer project and water development.

BERKELEY, Alameda Co., Cal.—Until September 30, 10 A. M., bids will be received by Florence E. Turner, City Clerk, to construct sewer in The Alameda, San Pedro Ave. and Laurel Lane. Certified check 10% payable to city required with bid.

Plans obtainable from city engineer on deposit of \$10, returnable.

MADERA, Madera Co., Cal.—Aa previously reported, bids will be received by Jas. Wakefield, city clerk, to construct extensions to sewer system for which bonds of \$20,000 were recently voted. Project involves: 957 ft. 15-in. vit. sewer; 4763 ft. 12-in. vit. sewer; 2216 ft. 10-in. vit. sewer; 2018 ft. 8-in. vit. sewer; 10,362 ft. 6-in. vit. sewer; 60 ft. 12-in. cast iron pipe sewer; 12 ft. 6-in. cast iron pipe sewer; 41 concrete manholes; 17 clay linchpipes; 1 50 G. P. M. sewage ejector (alt. bids on single and duplex units); 1 concrete sump.

Andrew M. Jensen, engineer, 68 Post St., San Francisco. Certified check 10% payable to city required with bid. Plans on file in office of city clerk.

See call for bids under official proposal section in this issue.

ALAMEDA, Alameda Co., Cal.—John Pestana, 1232 35th Ave., Fruitvale, at \$6,322.33 lowest regular bidder, awarded contract by city council to construct storm water sewer in High St. from Central Ave. to the tidal canal. Following is a complete list of bids:

W. J. Tobin.....	\$6,324
J. T. Clinch.....	6,792
John Pestana.....	6,322
L. L. Page.....	7,594
Heafey-Moore Co.....	7,310

WATER WORKS

RED BLUFF, Tehama Co., Calif.—City trustees authorize purchase of a quantity of galvanized pipe for use as street drains and for a quantity of 4-in. c. i. pipe to replace water mains in various sections of the city.

NEVADA CITY, Nevada Co., Cal.—Until October 6, 10 A. M., bids will be received by Geo. Coughlan, county clerk, to furnish and deliver to the county hospital 1,300-ft. of 3-in. new standard galvanized iron pipe, including couplings. Specifications and further information obtainable from clerk.

EL CENTRO, Imperial Co., Calif.—Until 7:30 P. M., October 15, bids will be received by the city council for cast iron pipe, bell and spigot, 12-in. ft. or 16-in. lengths, f.o.b. El Centro as follows:

(1) 1000 ft. 6-in. pipe;
(2) 2000 ft. 4-in. pipe.

Certified check or bond, 10%. J. C. Neale, city clerk.

MERCED, Merced Co., Cal.—Until October 7, 10 A. M., bids will be received by H. P. Sargent, secretary, Merced Irrigation District, to furnish three drainage pumps and 5% motors complete. Certified check 5% payable to district required with bid. Specifications obtainable from secretary on deposit of \$5, returnable.

PHOENIX, Ariz.—C. C. Kennedy, consulting engineer of San Francisco, is in Phoenix to confer with Franklin D. Lane, mayor, and W. J. Jamieson, city engineer, on the proposed water and sewer program under the \$3,422,000 municipal bond issue. The water system work will be supervised by W. J. Jamieson and the sewer construction by Holmquist and Madcock, consulting engineers, Phoenix. C. C. Kennedy is acting in an advisory capacity.

ANTIOCH, Contra Costa Co., Cal.—City council plans installation of a new filter plant at the pumping station on the river front, in connection with the municipal water system. Leo O'Hara is city engineer.

RED BLUFF, Tehama Co., Cal.—Until October 6, 7:30 P. M., bids will be received by E. E. Stevens, engineer, Municipal Water Department, to furnish 1000 feet of 4-inch cast iron pipe, Class 100 lb. pressure or heavier; delivered f. o. b. Red Bluff. Certified check 10% required with bid.

SAN FRANCISCO.—Following bids received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish and deliver 2,500-ft. of 12-inch Bell and Spigot, tar coated cast iron pipe for San Francisco Municipal Water Department:

American Cast Iron Pipe Co., Balboa Bldg., 16-ft. lengths, \$1,298 lin. ft. Delivery 50 days.

United States C. I. Pipe & Foundry Co., Monadnock Bldg., 12-ft. or 18-ft. lengths, \$1,366. Delivery 60 days.

National Cast Iron Pipe Co., 571 Mission St., 12-ft. or 18-ft. lengths, \$1,32. Delivery 30 to 40 days.

PLAYGROUNDS & PARKS

WOODSIDE, San Mateo Co., Cal.—W. O. Tyson, Redwood City and Chris Jordan, Belmont, awarded contract by Woodside Country Club to lay out an 18-hole golf course of championship length at Woodside. The project, including clearing, grading, etc., will involve an expenditure of \$90,000. A. R. Lyon is president of the club.

FRESNO, Fresno Co., Cal.—November 4 is the date set by the city commission to vote bonds of \$2,520,000 to finance the purchase of the water system of the California Water Service Company to operate as a municipal project.

CALISTOGA, Napa Co., Cal.—Until October 10, 7:30 P. M., bids will be received by Calistoga Joint Union High School District, to construct tennis courts; cement pavement, 4-inch thick and 90x118 feet. Grading and filling and packing 275 cubic yards. A 12-ft. fence about the entire court of galvanized wire mesh 1½-inch and No. 18 wire attached to 1½-inch galvanized pipe; 3 gates of 1-inch galvanized pipe; also four net posts set in concrete. Further information obtainable from clerk of district.

STREETS AND HIGHWAYS

EUREKA, Humboldt Co., Cal.—Until October 6, bids will be received by Fred M. Kay, county clerk, to construct road through Hoopa Valley from the Hoopa-Willow Creek road to the Weitchpec road. The project will be financed from funds remaining from the appropriation for the bridge now being built across the Trinity river. A fund of \$70,000 was appropriated jointly by the U. S. government and the county for this work, and it is estimated that about \$3,000 will be left for the road work. Specifications obtainable from Frank Kelley, county surveyor, at Eureka.

SAN JOSE, Santa Clara Co., Cal.—City council declares intention (\$197) to improve Santa Clara street, between Market and Montgomery Sts., also a portion of Pleasant St., involving removal of present surface and replace with 1½-in. asphalt. cem. conc. curbs, gutters, walks; furnish and install 60 (San Jose standard) duplex electroliters together with underground system. 1911 Act. Hearing Oct. 6. John J. Lynch, city clerk. Wm. Popp, city engineer.

OAKLAND, Cal.—Jack Casson, Hayward, at \$0.0169 sq. ft. (\$4,162.55)

awarded contract by county supervisors for 2.6 miles of oil surfacing in Redwood Canyon from the Oakland city limits, involving 245,000 sq. ft. oiling. Complete list of bids follows:

Jack Casson	\$0.0169;	\$4,162
Heafey-Moore .....	.019	4,263
Leo J. Immel .....	.0174	4,655
Peres and Gatto.....	.04	9,800

OROVILLE, Butte Co., Cal.—Until October 6, 2:30 P. M., bids will be received by C. F. Belding, county clerk, for grading from Sta. 740 plus 60 to Sta. 753+62 on the Oroville-Pentz Magala road involving 11,850 cu. yds. excavation, unclassified. Certified check 10% required with bid. Specifications obtainable from J. A. Humbergarner, county road engineer at Oroville.

OROVILLE, Butte Co., Cal.—Until October 6, 2:30 P. M., bids will be received by C. F. Belding, county clerk, to grade from Sta. 56+50 to 81+50 on the Oroville La Porte road, involving 7812 cu. yds. material unclassified. Certified check 10% required with bid. Specifications obtainable from J. A. Humbergarner, county road engineer at Oroville.

VISALIA, Tulare Co., Cal.—Until September 29, 7:30 P. M., bids will be received by Ida Markham, city clerk, (136-C) to improve portions of west Race St., West Grove St., Highland Ave., North Willis St., etc., involving construction of hydraulic cem. conc. curbs, driveways and sidewalks. 1911 Act. Bond Act 1915. Certified check 10% payable to city required with bid. Plans on file in office of clerk.

SAN FRANCISCO—W. J. Tobin, 527 Balfour Ave., Oakland, at \$3757 awarded contract by Board of Public Works to improve 25th St., bet. Fountain and Burnham Sts., including crossing at Fountain St., involving grading; armored concrete curbs; one-course concrete sidewalks; br. catch-basins; 12-in. vit. pipe sewers; vit. clay pipe side sewers; 6-in. class E conc. pave with 2-in. asphalt concrete surface and 6-in. class F base pave.

STOCKTON, San Joaquin Co., Cal.—Until October 6, 11 A. M., bids will be received by Eugene D. Graham, county clerk, to improve Bacon Island road from the Borden Highway along North Levee of Trapper Slough and along Middle River Levee to Bacon Island Ferry, all in Road Dist. No. 1. Certified check 10% payable to Chairman of the Board of Supervisors required with bid. Plans obtainable from Julius Manthey, county surveyor.

STOCKTON, San Joaquin Co., Cal.—Until October 6, 11 A. M., bids will be received by Eugene D. Graham, county clerk, for clearing site, excavating and extending a culvert at the crossing of Santa Carbonsa Irrigation District's lift line, extending a culvert at J. R. Russell and Bird Roads and constructing three culverts bet. Yarmouth and the Bird road, all in Road District No. 3.

Certified check 10% payable to Chairman of the Board of Supervisors required with bid. Plans obtainable from Julius Manthey, county surveyor.

COLUMBIA COUNTY, Cal.—Until October 1, 2 P. M., bids will be received by C. H. Whitmore, district engineer, State Highway Commission, 502 State Office Bldg., Sacramento, to construct 3 miles of property fence on state highway between Bear Creek and 8 miles west of Williams.

See call for bids under official proposal section in this issue.

September 23, 1930

(1)	11.5 acres clearing and grubbing right of way;	(42)	952 lin. ft. 24-in. corrugated metal pipe;
(2)	116,000 cu. yds. roadway, excavation without class.	(43)	562 lin. ft. 30-in. corrugated metal pipe;
(3)	42,300 cu. yds. roadway excavation without class. (Location B);	(44)	406 lin. ft. 36-in. corrugated metal pipe;
(4)	530,000 station yards overhead;	(45)	188 lin. ft. 48-in. corrugated metal pipe;
(5)	3,307 cu. yds. structure excavation;	(46)	118 lin. ft. corrugated metal pipe (clean and relay);
(6)	13,100 cu. yds. untreated crushed gravel or stone surfacing;	(47)	925 M. gallons water applied to surfacing;
(7)	250 cu. yds. class A Portland cement concrete (structures);	(48)	5.7 miles new hog-tight property fence;
(8)	23,100 lbs. bar reinforcement (structures);	(49)	1,830 cu. yds. screenings in stockpiles;
(9)	756 lin. ft. 8-in. corrugated metal pipe;	(20)	2.2 M. ft. b.m. redwood timber, dense select all heart, grade;
(10)	30 lin. ft. 12-in. corrugated metal pipe;	(21)	8.2 M. ft. b.m. redwood timber, select all heart, grade;
(11)	2,726 lin. ft. 18-in. corrugated metal pipe;	(22)	237 sections finishing roadway;
(12)		(23)	125 each monuments complete in place;

(B) E. C. Coats, \$152,109.10.
(C) Conlouts Construction Co., \$152,953.60.
(D) O. A. Lindberg, \$155,220.20.
(E) Friedrichson & Watson, \$166,766.75.
(F) Lilly-Willard & Blusoff, \$166,256.15.
(G) Grinnell, Fether & Co., \$169,381.
(H) Larsen Brothers, \$179,916.60.
(I) V. R. Dennis Construction Co., \$181,473.25.
(J) Clark & Henery Construction Co., \$183,267.35.
(K) M. J. Beventi, \$184,755.50.

(S) McCray Company, \$208,524.10

The unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)	(Z)
(1)		\$150.00	\$150.00	\$100.00	\$150.00	\$125.00	\$100.00	\$75.00	\$300.00	\$150.00	\$100.00	\$120.00	\$130.00	\$200.00	\$100.00	\$150.00	\$200.00	\$75.00	\$300.00	\$150.00	\$100.00	\$120.00	\$130.00	\$200.00	\$100.00	\$150.00
(2)		.50	.45	.60	.58	.48	.50	.55	.75	.75	.55	.55	.57	.55	.58	.70	.60	.60	.60	.60	.60	.60	.60	.60	.60	.60
(3)		.50	.60	.60	.78	.78	.77	.70	.70	.75	.75	.63	.85	.02	.02	.01	.02	.01	.02	.01	.02	.01	.02	.01	.02	.01
(4)		.01	.01	.01	.015	.01	.01	.01	.01	.01	.01	.02	.02	.02	.02	.01	.02	.01	.02	.01	.02	.01	.02	.01	.02	.01
(5)		1.50	1.30	1.50	2.00	1.50	1.25	1.50	1.50	1.50	1.75	1.50	2.50	1.50	1.25	2.00	1.75	2.00	1.75	2.00	1.75	2.00	1.75	2.00	1.75	2.00
(6)		2.50	2.80	2.20	2.00	3.20	3.50	3.30	3.20	3.80	3.50	3.00	3.00	3.00	2.75	3.25	2.50	3.48	3.00	3.25	2.50	3.48	3.00	3.25	2.50	3.48
(7)		25.00	25.00	25.00	30.00	20.00	32.00	22.00	30.00	25.00	30.00	24.00	25.00	25.00	25.00	22.50	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00
(8)		.05	.06	.05	.07	.05	.05	.06	.05	.06	.06	.06	.06	.06	.05	.05	.05	.06	.05	.05	.05	.06	.05	.05	.06	.05
(9)		1.00	.50	.30	.50	.50	.25	.40	.40	.50	.30	.50	.20	.30	.50	.50	.75	1.00	.50	.30	.50	.50	.75	1.00	.50	.30
(10)		.40	.60	.40	.50	.50	.50	.50	.40	.40	.50	.40	.50	.30	.40	.50	.30	.40	.50	.30	.40	.50	.30	.40	.50	.30
(11)		.50	.70	.50	.60	.50	.50	.50	.50	.45	.50	.60	.75	.50	.50	.60	.75	.50	.50	.60	.75	.50	.50	.60	.75	.50
(12)		.75	.80	.60	.60	.50	.50	.50	.60	.95	.65	.75	.80	.75	.60	.75	.80	.75	.60	.75	.80	.75	.60	.75	.80	.75
(13)		1.00	1.00	.70	.60	.75	.75	1.30	.50	.60	1.00	1.00	1.00	1.00	.75	1.60	1.50	1.50	1.00	.75	1.60	1.50	1.50	1.00	.75	1.60
(14)		1.00	1.20	.85	.75	1.50	1.00	2.00	.70	1.10	1.50	1.50	1.50	1.00	1.25	1.75	1.60	2.00	1.00	1.25	1.75	1.60	2.00	1.00	1.25	1.75
(15)		1.50	1.60	1.20	1.00	1.00	1.00	.80	1.50	2.00	2.50	2.00	1.50	2.00	1.50	2.00	1.50	2.00	1.50	2.00	1.50	2.00	1.50	2.00	1.50	2.00
(16)		1.00	1.20	.30	.60	1.00	.80	2.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
(17)		.250	3.00	2.00	2.25	2.00	2.25	4.00	4.00	2.00	2.50	2.50	2.30	2.30	2.00	2.00	3.50	2.75	2.00	2.00	3.50	2.75	2.00	2.00	3.50	2.75
(18)		650.00	500.00	500.00	800.00	500.00	750.00	400.00	600.00	750.00	600.00	850.00	450.00	600.00	425.00	500.00	600.00	750.00	600.00	425.00	500.00	600.00	750.00	600.00	425.00	500.00
(19)		2.50	500.00	2.20	2.50	3.20	4.00	3.40	3.40	3.50	2.50	4.00	3.00	100.75	92.50	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
(20)		100.00	60.00	60.00	90.00	100.00	95.00	100.00	90.00	125.00	90.00	100.00	95.00	95.00	95.00	95.00	95.00	95.00	95.00	95.00	95.00	95.00	95.00	95.00	95.00	95.00
(21)		100.00	55.00	60.00	90.00	100.00	110.00	100.00	110.00	125.00	90.00	100.00	100.00	95.00	95.00	95.00	95.00	95.00	95.00	95.00	95.00	95.00	95.00	95.00	95.00	95.00
(22)		5.00	5.00	5.00	6.00	5.00	5.00	5.00	5.00	6.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
(23)		3.00	3.00	3.00	3.50	3.00	3.00	3.00	3.00	4.00	4.00	4.00	4.00	3.00	3.00	3.00	3.50	3.50	3.00	3.00	3.50	3.50	3.00	3.00	3.50	3.50

STOCKTON, San Joaquin Co., Cal.—Until October 6, 11 A. M., bids will be received by Eugene D. Graham, county clerk, to improve J. R. Russell road from Blvd road to the Reicks Road in Doad District No. 3.

Certified check 10% payable to Chairman of the Board of Supervisors required with bid. Plans obtainable from Julius Manthey, county surveyor.

SAN FRANCISCO.—Until October 1 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to improve 44th Ave. bet. Moraga and Nolas Sts. (where not) involving armored concrete curbs; vit. clay pipe side sewers; 2-in. asph. conc. surface pavement with 6-in. class F conc. base. Estimated cost \$1,600. Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall.

SAN JOSE, Santa Clara Co., Cal.—A. J. Raisch, Burrell Bldg., San Jose, only bidder at \$4,188 awarded contract by county supervisors to improve Peach Court and Bonita Ave. Engineer's estimate \$4,460.

OAKLAND, Cal.—Healy-Moore Co., 344 High St., Oakland, awarded contract by city council to improve portions of Bullard Drive, involving excavation, \$9.85 cu. yd.; conc. curb, \$.75 lin. ft.; conc. gutter, \$.26 sq. ft.; 2-in. asph. conc. surface pave., 3-in. asph. conc. base, \$.20 sq. ft.

MONTEREY, Monterey Co., Cal.—Granite Const. Co., Watsonville, at \$4,932.50 submitted low bid to State Highway Commission to construct rock borders and apply bituminous surface treatment between two miles and 4.7 miles north of Salinas, involving (a) 2,600 tons rock borders, placing, \$1.40; (b) 160 bbls. heavy fuel oil, \$4; (c) 145 tons screenings (surface treatment), \$4.50. Rock to be furnished by state.

W. A. Dontanville, at \$6,480.75 only other bidder; (a) \$2.08; (b) \$2.40; (c) \$4.75.

HUMBOLDT COUNTY, Cal.—Until October 15, 2 P. M., bids will be received by State Highway Commission to grade and surface with untreated crushed gravel or stone, 0.4 mile at High Rich Hill.

See call for bids under official proposal section in this issue.

OAKDALE, Stanislaus Co., Cal.—Due to protests the city council has abandoned proceedings to pave approximately seven miles of streets. A report submitted by Geo. F. Matcomber, city engineer, showed 65% of the property owners against the plan.

PACIFIC GROVE, Monterey Co., Cal.—Until October 16, 7:30 P. M., bids will be received by Orrell C. Stubbs, city clerk, (3239) to improve Willow St., bet. Lighthouse and Junipero Aves., involving cem. conc. curbs and gutters; 2-in. asph. conc. pavement on existing base; 2 conc. catch-basins; 4-in. vit. clay lateral sewers. 1911 Act. Bond Act 1915. Certified check 10% payable to city required with bid. Plans on file in office of clerk. H. Severance, city engineer.

SAN JOSE, Santa Clara Co., Cal.—Until October 6, 11 A. M., bids will be received by Henry A. Pfister, county clerk, to improve Glen Eyrle and part of Carolyn Ave. in Supervisor District No. 4. Specifications obtainable from Robert Chandler, county surveyor, on payment of \$1, not returnable.

T. E. CONNOLLY LOW BIDDER FOR COLLEGE HILL SEWER UNIT

SAN FRANCISCO.—T. E. Connolly, 461 Market St., San Francisco, at \$251,617 submitted low bid to the Board of Public Works to construct Section K of the College Hill Sewer, extending from the Mission Viaduct to Valencia and Army Sts. A complete list of bids received follows:

(A) T. E. Connolly.....	\$251,617	(E) Healy-Tibbitts Co.....	\$309,746
(B) Hanrahan Co.....	256,618	(F) Yondall Const. Co.....	312,603
(C) McDonald & Kahn.....	289,987	(G) J. C. Hickey.....	327,574
(D) W. S. Mead.....	295,904	(I) Engineer's estimate.....	320,000

The project involves:

- (1) 4,319 lin. ft. 4x6-ft. 6-in. reinforced concrete tunnel;
- (2) 1,508 lin. ft. 4x6-ft. reinforced concrete sewer;
- (3) 318 lin. ft. 3-ft. 6-in. x 5-ft. 3-in. reinforced concrete sewer;
- (4) 315 lin. ft. 6-ft. circular reinforced concrete sewer;
- (5) 75 lin. ft. 18-in. V.C.P. sewer;
- (6) Reinforced concrete junction struc. at 29th and San Jose Ave.;
- (7) Do at San Jose and Army Streets;
- (8) Do at Valencia and Army Streets;
- (9) 7 brick or concrete manholes, complete on concrete sewers;
- (10) 3,800 lin. ft. 6-in. V.C.P. underdrain covered with concrete or imbedded in broken rock;
- (11) 1,900 lin. ft. 8-in. do;
- (12) 500 lin. ft. 10-in. do;
- (13) 300 lin. ft. 12-in. do;

	A	B	C	D	E	F	G
(1)	\$43.00	\$41.00	\$48.00	\$52.45	\$50.00	\$55.00	\$56.00
(2)	28.00	29.40	36.50	31.80	39.50	31.00	35.00
(3)	22.00	34.75	31.00	18.00	35.00	23.00	30.00
(4)	30.00	49.65	34.00	25.00	40.00	40.00	42.00
(5)	5.00	4.50	6.00	5.60	15.00	8.00	6.00
(6)	500.00	827.00	600.00	750.00	1000.00	600.00	100.00
(7)	500.00	900.00	650.00	650.00	1000.00	600.00	1200.00
(8)	500.00	1000.00	750.00	675.00	1100.00	600.00	1100.00
(9)	100.00	135.00	80.00	75.00	200.00	100.00	200.00
(10) .....	.60	.60	.50	.75	.50	.60	.70
(11) .....	.75	.75	.70	.70	1.00	.80	.80
(12)	1.00	1.00	.90	.70	1.25	1.00	1.00
(13)	1.50	1.00	1.25	.90	1.50	1.20	1.10

W. W. HAYES LOW ON ALAMEDA COUNTY BRIDGES AT \$50,744

OAKLAND, Cal.—W. W. Hayes, 627 Call Bldg., San Francisco, at \$50,744.04 submitted low bid to county supervisors to construct 2 concrete bridges across Crandall Slough between Alvarado and Centerville, involving:

- (1) 500 cu. yds. excavating for structure below bridge;
- (2) 2,500 cu. yds. excavating for structure above bridge;
- (3) 1,800 cu. yds. grading;
- (4) 14,000 sq. ft. 8-in. W. B. macadam

- (5) 1,570 cu. ft. concrete;
 - (6) 267,000 lbs. reinforced steel;
 - (7) 200 lin. ft. 12-inch corrugated iron pipe;
 - (8) remove existing bridge and clear site, etc. (complete).
- Complete list of bids follows:
- | | |
|---|----------|
| (A) W. W. Hayes, S. F..... | \$50,744 |
| (B) Nat Lena, Alameda..... | 52,114 |
| (C) C. A. Bruce & Sons, Pleasanton..... | 55,675 |
| (D) C. E. Force, Oakland..... | 56,777 |
| (E) M. B. McGowan, S. F..... | 58,670 |

	(A)	(B)	(C)	(D)	(E)
(1)	\$4.00	\$2.5	\$2.5	\$2.75	\$6.00
(2)	2.00	1.70	2.00	1.60	2.20
(3) .....	.55	1.35	1.45	1.75	1.06
(4) .....	.12	.08	.07	.15	.115
(5)	18.422	16.50	19.00	19.60	20.00
(6) .....	.0395	.0425	.04	.04	.0474
(7)	2.10	2.00	2.25	1.60	1.80
(8)	3,655.00	6,537.00	6,000.00	4,500.00	2,345.00

All bids taken under advisement until Sept. 25. Geo. A. Posey is county surveyor.

CONTRACTORS' MACHINE WORKS

SPECIALISTS ON REPAIRING AND REBUILDING OF

Bunkers, Hoppers, Chuting, Conveyors, Rollers, Mixers, Hoists, Shovels, Tractors, Pavers, Crushers, Drag Lines, Elevators, Car Unloaders, and other Road and Building Equipments;

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SAN FRANCISCO.—Until October 1, 2:30 P. M., bids will be received by Board of Public Works to construct Section S of the Sunset Boulevard between Noriega and Santiago Streets, 36th and 37th Aves.; estimated cost, \$130,000, funds to be derived from Boulevard Bond Issue. The project involves:

- (1) 116,200 cu. yds. excavation;
- (2) 123,300 sq. yds. imported borrow;
- (3) 193,600 sq. ft. asph. mac. pave., 2½ in. asph. conc. surf. and 10-in. waterbound mac. pave.;
- (4) 48,000 sq. ft. asph. conc. pave., 2-in. asph. conc. surf., 6-inch class F conc. base;
- (5) 160 tons asph. conc. conform pavement;
- (6) 90,800 sq. ft. 4-in. waterbound macadam pavement;
- (7) 45,800 sq. ft. 6-in. do.;
- (8) 13,700 sq. ft. conc. sidewalk (one-course);
- (9) 13,600 lin. ft. unarmored concrete curb;
- (10) 100 lin. ft. (reset) conc. curb;
- (11) 18,200 lin. ft. 2x6-in. r.w. headers;
- (12) 240 lin. ft. 15-in. V.C.P. sewer;
- (13) 240 lin. ft. 12-in. do.;
- (14) 700 lin. ft. 10-in. do.;
- (15) 5 brick manholes, complete;
- (16) 12 brick catchbasins, complete
- (17) 540 lin. ft. 3-in. black pipe conduit;
- (18) 1,600 lin. ft. 1½-in. do.;
- (19) 9,940 lin. ft. cu. yds. loam;
- (20) 1,860 cu. yds. manure;
- (21) 3 tons hay

A. Time for completion 180 days. Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall, on deposit of \$10, returnable.

SAN FRANCISCO.—D. C. McCabe, Call Bldg., at \$700 awarded contract by Board of Public Works to improve portions of Deming St., Manor Drive, Fairfield Way, 30th Ave., etc., involving construction of artificial stone sidewalks.

DIXON, Solano Co., Cal.—City votes bonds of \$30,000 to finance paving of various streets in the residential district.

SAN JOSE, Santa Clara Co., Cal.—City council declares intention (5189) to construct cement concrete sidewalks in portions of Montgomery St. in the vicinity of Cinnabar St. 1911 Act Hearing Oct. 6. John J. Lynch, city clerk. Wm. Popp, city engineer.

SAN JOSE, Santa Clara Co., Cal.—Until October 6, 11 A. M., bids will be received by Henry A. Pinner, county clerk, to improve Monterey street in the city of Gilroy, Supervisor District No. 1. Specifications obtainable from Robert Chandler, county surveyor, on payment of \$1, not returnable.

ORMSBY AND LYON COUNTIES, Nevada.—Until October 8, 2 P. M., bids will be received by State Highway Commission, Carson City, to improve 7.68 miles from Carson City to 2 miles east of Mound House, involving grading, structures and gravel surface. Certified check 5% required with bid. Plans on file in office of U. S. Bureau of Public Roads, 461 Market St., San Francisco, and obtainable from S. C. Durkee, highway engineer, Carson City, on payment of \$15, of which \$10 is returnable.

SANTA BARBARA, Cal.—Hunter & Richardson, 525 E. Haley St., awarded contract by city council at \$14,665.20 for grading Ortega St. bet. Garden and Quarantine Sts., Cota St. bet. Laguna and Olive Sts., and Quarantine St. bet. Haley and Cota Sts., and Salipuedes St. bet. Haley and Ortega.

CALIFORNIA CONSTRUCTION LOW ON SUNSET BOULEVARD PROJECT

SAN FRANCISCO.—California Construction Co., Standard Oil Bldg., San Francisco, at \$97,890 submitted low bid to the Board of Public Works to construct Section D of the Sunset Boulevard from Noriega to Irving St. with connections to Lincoln Way. Following is a complete list of bids:

(A) California Const. Co.	\$ 97,890	(E) Pay Imp. Co.	\$111,210
(B) Meyer Rosenberg	105,113	(F) E. J. Treacy	120,517
(C) Jas. M. Smith	107,539	(G) Grandfield, Farrar & Carlin	122,156
(D) C. L. Harney	109,362	Engineer's estimate	123,000
(1) 133,600 cu. yds. excavation;			
(2) 61,700 cu. yds. fill (imported borrow);			
(3) 192,900 sq. ft. asphalt macadam pavement;			
(4) 38,600 sq. ft. asphalt concrete pavement;			
(5) 242 ton asphalt conform pavement;			
(6) 90,700 sq. ft. 4-in. waterbound macadam pavement;			
(7) 45,700 sq. ft. 6-in. waterbound macadam pavement;			
(8) 13,500 sq. ft. concrete sidewalk;			
(9) 13,400 lin. ft. uniform concrete curb;			
(10) 470 lin. ft. reset concrete curb;			
(11) 18,200 lin. ft. 2x6-in. redwood header;			
(12) 240 lin. ft. 18-in. V.C.P. sewer;			
(13) 240 lin. ft. 15-in. do.;			
(14) 120 lin. ft. 12-in. do.;			
(15) 570 lin. ft. 10-in. V. C. P. sewer;			
(16) 5 manholes;			
(17) 10 catchbasins, complete;			
(18) 5 catchbasins, reset;			
(19) 650 lin. ft. 3-in. black pipe conduit;			
(20) 2100 lin. ft. 1½-in. do.;			
(21) 3 9 unit reflectors;			
(22) 2 "keep-to-right" signs;			
(23) 9920 cu. yds. loam;			
(24) 1860 cu. yds. manure;			
(25) 3 tons of hay.			

	A	B	C	D	E	F	G
(1)	\$.15	\$.19	\$.18	\$.19	\$.20	\$.20	\$.25
(2) .....	.15	.17	.18	.19	.20	.20	.25
(3) .....	.14	.125	.155	.13	.135	.167	.14
(4) .....	.20	.20	.25	.24	.2135	.22	.22
(5)	5.00	6.00	6.50	6.00	5.50	6.00	7.00
(6) .....	.03	.04	.025	.03	.028	.04	.03
(7) .....	.04	.05	.033	.04	.042	.045	.05
(8) .....	.13	.12	.10	.12	.12	.13	.12
(9)	45.00	70.00	47.00	70	60.00	70	60.00
(10)	20.00	50.00	25.00	25.00	17.00	40.00	25.00
(11) .....	.07	.08	.08	.08	.09	.10	.06
(12)	2.75	2.00	1.90	2.00	2.82	2.25	2.50
(13)	2.00	1.50	1.40	3.50	2.40	2.00	2.00
(14)	1.50	1.50	1.00	2.00	1.62	1.50	1.50
(15)	1.50	1.00	.80	1.00	1.50	1.50	1.00
(16)	100.00	80.00	70.00	75.00	95.00	80.00	85.00
(17)	1.00	.80	.75	.75	.88	.80	.85
(18)	30.00	50.00	25.00	50.00	45.00	60.00	40.00
(19) .....	.80	.50	.55	.60	.72	.40	.75
(20) .....	.40	.30	.20	.30	.32	.30	.40
(21)	20.00	25.00	25.00	25.00	17.00	30.00	15.00
(22)	7.00	25.00	50.00	10.00	6.50	40.00	13.00
(23)90	.85	1.00	1.00	1.00	1.00	1.00
(24)	2.50	2.50	2.50	2.50	3.00	3.20	3.00
(25)	40.00	50.00	50.00	50.00	38.00	40.00	20.00

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Ten Years of Uniformly Satisfactory Experience in High

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Sold by Representative Dealers Everywhere

SANTA BARBARA & SAN LUIS OBISPO COUNTIES, Cal.—Lang Transportation Co., 5501 Santa Fe Ave., Los Angeles, at \$261,612 awarded contract by State Highway Commission to grade and surface with all treated crushed gravel or stone, 37.5 miles between the second crossing of the Cuyama river and the east boundary of San Luis Obispo County.

SEBASTOPIOL, Sonoma Co., Cal.—Until October 6, 7:30 P. M., bids will be received by F. G. McFarlane, city clerk, (185a) to improve High street, bet. Calder and Maple Aves., and bet. Maple and Palm Aves., and bet. Maple and McFarlane Aves., involving grading; 5-inch cement concrete pavement; cement curbs, 1911 Act. Bond Act 1915. Certified check 10% payable to city required with bid. Plans on file in office of clerk.

SUNNYVALE, Santa Clara Co., Cal.—Until October 6, 7:30 P. M., bids will be received by Ida Trubschenck, city clerk, (335) to improve portions of Sunset Ave., Muender Ave., etc., involving construction of cement concrete curbs and sidewalks and driveways. 1911 Act. Bond Act 1915. Certified check 10% payable to Mayor of city required. Plans on file in office of clerk and obtainable from H. N. Bishop, engineer, 11th Floor, Bank of Italy Bldg., San Jose.

PACIFIC GROVE, Monterey Co., Cal.—City Council declares intention (3266) to improve Lighthouse Ave., bet. Alder St. and Dennett St., involving grading, cem. conc. curbs and gutters; 2½-in. asph. conc. base pavement with 1½-in. asph. conc. surface; 2 conc. catchbasins; 1911 Act. Bond Act 1915. Hearing October 16. Orrell C. Stubbs, city clerk. H. Severance, city engineer.

PACIFIC GROVE, Monterey Co., Cal.—City Council declares intention (3269) to improve:

Bayview Ave., bet. Jewel Ave. and Dennett St.;

Cedar St., bet. Lighthouse and Bayview Aves.;

Del Monte Ave. (Alder St.), bet. Lighthouse and Bayview Aves., and Jewel Ave. from Pacific Ave. to point 510 ft. westerly, involving grading; cem. conc. curbs and gutters; 4-in. decomposed granite base pavement with 2-in. asph. conc. wearing surface; 2 conc. catchbasins; 4-in. vit. clay pipe lateral sewers. 1911 Act. Bond Act 1915. Hearing October 16. Orrell C. Stubbs, City Clerk. H. Severance, city engineer.

SAN FRANCISCO—M. J. Lynch, 478 30th St., at \$180, awarded contract by Board of Public Works to improve portions of Dosworth, Laidley and Sussex Sts., involving construction of artificial stone sidewalks.

RED BLUFF, Tahama Co., Cal.—County supervisors appropriate \$5000 to finance county's share of cost in the improvement of the Red Bluff-Eureka Highway. Humboldt County has already provided an additional \$5000 and Trinity County will provide \$1000. The road will link the Pacific Highway with the Redwood Highway.

SOUTH SAN FRANCISCO, San Mateo Co., Cal.—Due to protests of property owners, city council rejects bids (71) to improve Linden Ave., bet. Railroad Ave. and Southern Pacific Company's Bay Shore Line, involving

grading; hydraulic cement concrete sidewalks, gutters, curbs; pavement consisting of 3-inch asphaltic concrete base; 6-in. waterbound rock macadam sub-base on cushion and 2-inch asphaltic concrete wearing surface; two steel reinforced hydraulic concrete bridges; concrete box culvert; vitrified salt-glazed iron pipe sanitary sewer; brick manholes, catchbasins, electroliners, cement concrete wall. Complete list of bids received follows: Hanrahan Co., \$79,848; Union Paving Co., \$82,371; Fay Improvement Co., \$89,809.

SAN MATEO COUNTY, Cal.—Following bids received Sept. 24 by State Highway Commission to grade and pave with Portland cement concrete 0.9 mile through South San Francisco: Basch Bros., Torrance, \$89,162; Hanrahan Co., San Francisco, \$94,487; N. M. Ball, Porterville, \$96,660; W. A. Dontanville, Salinas, \$104,355.

BERKELEY, Alameda Co., Cal.—L. C. Seidel, 680 14th St., Oakland, at \$26,875.50 submitted low bid to city council (651) to improve portions of La Loma Ave. and Glendale Ave. involving grading; paving with oiled macadam and portions to be remacadamized; conc. curbs and gutters, concrete walls, walks and steps, rubble masonry walls, highway fences; catchbasins; corr. iron pipe culverts and vit sewer. Peres & Gatto only other bidder at \$30,640.10. Taken under advisement.

MARYSVILLE, Yuba Co., Cal.—Central-California Roads Co., 28th and Poplar Sts., Oakland, at \$457,42 awarded contract by city council (38) to improve 12th St., bet. B and Chestnut Sts.; E st. bet. Fourth and Fifth Sts.; E St., bet. 5th and 6th, and B St. from 16th to 17th Sts., involving removal of concrete curbs and sprinkler system and trees; grading; pave with 2½-ton asph. conc. base and 1½-inch asph. conc. surface; construct concrete curbs and gutters. Unit bid follows:

Grade, \$0.035 sq. ft.;
Pave, \$0.20 sq. ft.;
Gutter, \$0.28 sq. ft.;
Curb, \$0.45 sq. ft.

EL DORADO COUNTY, Cal.—Following bids received Sept. 24 by State Highway Commission to grade and surface with untreated crushed gravel or stone, 1.7 miles between Clark's Corner and Placerville:

C. E. Force, Piedmont, \$3,909
E. C. Coates, Sacramento, \$4,405
Hemstreet & Bell, Marysville, \$9,825
Adams Con. Co., Angels, \$2,252
C. C. Christy & Sutes, S. F., \$2,463
W. H. Hauser, Oakland, \$2,463
Geo. Pollock Co., Sacramento, \$6,216
Kern & Kibbe, San Francisco, \$9,398
A. Teichert & Son, Sacto., \$9,823
Granfield, Farrar & Carlin, San Francisco, \$100,171
J. M. DeLuca, Oakland, \$104,551
Larsen Bros., Galt, \$105,156
Clark & Henry Const. Co., San Francisco, \$105,827
Coutoules Const. Co., S. F., \$105,985
Finnell Co., Sacramento, \$120,302

MARIPOSA COUNTY, Calif.—Until Oct. 21, 2 P. M., bids will be received by C. H. Sweetser, district engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, for grading from Sta. 0 plus 00 to Sta. 201 plus 13, Section 5-A of Route No. 2, Wawona Route, and widening from Sta. 51 plus 86 to Sta. 70 plus 57 on Sec. 1, B-2, of Route No. 1, South Road, all in Yosemite National Park, 3.697 miles in length. Project involves

(1) 20 acres clearing;
(2) 96,500 cu. yds. excav. unclass.;

(3) 1,500 cu. yds. excav. for struc.;

(4) 13,500 cu. yds. borrow unclass.;

(5) 121,500 sta. ft. conc. overhaul;

(6) 3,637 cu. yds. finish earth graded road

(7) 506 cu. yds. class A concrete,

(8) 15,600 lbs. reinf. steel;

(9) 3,150 cu. yds. cement rubble masonry;

(10) 2,142 lin. ft. corr. metal pipe in place;

(11) 1,026 cu. yds. hand laid rock embankment,

(12) 73,300 cu. yds. mls. hauling borrow and tunnel excav. material

(13) 4,230 lin. ft. tunnel excavation;

(14) 1,050 lin. ft. gallery excavation;

(15) 500 lin. ft. conc. tunnel lining,

(16) 600 cu. yds. Gunite lining.

Plans obtainable from engineer on deposit of \$10, checks for same to be made payable to Federal Reserve Bank of San Francisco.

COLUSA COUNTY, Cal.—Following bids received Sept. 24 by State Highway Commission to surface with gravel base, 8.1 miles between Williams and Maxwell:

D. McDonald, 1118 G St., Sacramento, \$95,140
D. R. Dennis Const. Co., San Diego, \$102,240
Basch Bros., Torrance, \$111,470
Clyde W. Wood, Stockton, \$113,600
A. F. Anderson, Oakland, \$119,390
J. L. Compton, McMinville, Oregon, \$120,700
C. Mankel, Sacramento, \$121,410
Hemstreet & Bell, Marysville, \$122,120
Frederickson & Watson, Oak land, \$127,800
Lilly, Willard and Biasotti, Stockton, \$130,040
A. Teichert & Son, Sacto., \$130,640

TRINITY COUNTY, Cal.—Following bids received Sept. 24 by State Highway Commission to grade 0.8 mile between westerly boundary and Burnt Ranch:

H. H. Boomer, San Francisco, \$31,476
Hemstreet & Bell, Marysville, \$32,017
Christy & Sutes, S. F., \$35,996
W. C. Colley, Berkeley, \$36,774
Engelhart Paving & Const. Co., Eureka, \$37,980
J. M. DeLuca, Oakland, \$43,070
Coutoules Bros., San Francisco, \$44,008
Finnell Const. Co., Sacramento, \$59,800

SANTA ROSA, Sonoma Co., Cal.—Chas. N. Chittenden, Napa, at 39c cu. yd. awarded contract to grade Hilton road, involving approx. 9,300 cu. yds. excavation.

SANTA ROSA, Sonoma Co., Cal.—W. C. Colley, 25 Northampton Street, Berkeley, awarded contract by county supervisors to grade Lakeville-Sears Point road, Section A, in First Supervisorial District, involving 3,300 cu. yds. excavation, 348c; 1,100 cu. yds. rock surfacing, 748c.

SAN LUIS OBISPO COUNTY, Cal.—Fred Nighbert, 10 H St., Bakersfield, at \$14,998 awarded contract by State Highway Commission to furnish and apply seal coat to existing bituminous macadam surface on 15.4 miles between 1.7 miles west of Shandon and east boundary.

COMPENSATION LAW VIOLATION DRAWS \$25 FINE

Oscar de Masek, Oakland painting contractor, a few days ago paid a fine of \$25 rather than serve a ten days' jail term for failure to provide workmen's compensation protection to his former workman, J. P. Jasven. Jasven, just out of hospital with a broken back received when he fell two stories while working on the job, gets no compensation because of de Masek's failure to make the proper provision.

Contracts Awarded

Liens, Acceptances, Etc.

BUILDING PERMITS

San Francisco County

No.	Owner	Contractor	Am't.
1211	Enmark	Owner	4000
1212	Michelette	Miller	2400
1213	Martinet	Strand	12000
1214	Lievre	Lindeman	36000
1215	Segallet	Owner	5000
1216	Dall	Owner	4000
1217	Moffatt	Barrett	25000
1218	Lurie	Cohn	12000
1221	Antonlioli	Owner	37000
1222	Felch	Woodside	1000
1223	Freesley	Owner	10000
1224	Kress	Parker	65000
1225	Monaghan	Owner	7000
1226	Towne	Moore	5000
1227	Zalinski	Jacks	18000
1228	Johnson	Owner	7000
1229	Kearney	Horn	3500
1230	Montgomery	Owner	10000
1231	Riley	Owner	3000
1232	Stone	Owner	10000
1233	St. Mary's	Johnson	4000
1234	St. Mary's	Johnson	4000
1235	Costello	Owner	12000
1236	Skelly	Vezina	1000
1237	Branger	California	1000
1238	Castle	Owner	14500

DWELLING
(1211) W CHESTER 465 N Palmetto; one-story and basement frame dwelling.

Owner—R. Enmark, 204 Cheney.
Architect—None. \$4000

ALTERATIONS
(1212) 464 DOUGLAS ST.; alterations to raise dwelling.

Owner—G. Micheletti, 364 Douglas St.
Plans by Contractor.
Contractor—P. Miller & Sons, 334 San Miguel St. \$2400

APARTMENTS
(1214) W DIVISADERO 50 S Lombard; three-story and basement frame (6) apts.

Owner—P. Martinet.
Architect—G. A. Berger, 309 Valencia.
Contractor—T. I. Strand, 471 Colorado Avenue. \$12,000

FLATS
(1214) W LYON 35 N Clay; three 2-story and basement frame (two) flats.

Owner—G. Lievre, Alexander Bldg.
Architect—Hyman & Appleton, Foxcroft Bldg.
Contractor—H. O. Lindeman, 619 27th Avenue. \$36,000

DWELLING
(1215) E GRIFFITH 100 S Quesada; two-story and basement frame dwelling.

Owners—P. Segallet and N. O'Neil, 1445 San Bruno Ave.
Architect—None. \$5000

DWELLING
(1216) NW SEVILLE 113 NE Cordova; 1-story and basement frame dwelling.

Owner—J. Dall, 912 Geneva Ave.
Architect—D. E. Jaekle, 744 Call Bldg. \$4000

STORAGE PLANT

(1217) S ARTHUR near Third St.; 2-story and basement class C meat plant.

Owner—H. Moffatt & Co., 3rd and Arthur Sts.
Engineer—Ellison & Russell, Pacific Building.
Contractor—Barrett & Hilp, 918 Harrison St. \$25,000

INDUSTRIAL BLDG.

(1218) S FOLSOM 65 E 5th St.; 1-story and basement class C industrial building.

Owner—The Lurie Co., 315 Montgomery Street.

Architect—W. D. Peugh, 333 Montgomery St.
Contractor—L. J. Cohn, 1 De Haro St. \$12,000

ALTERATIONS

(1219) 1095 JENNINGS ST.; alterations to dwelling, add room, bath, stucco front.

Owner—A. Roventine, 1095 Jennings.
Architect—None.
Contractor—G. Bobbio, 1294 Gilman. \$1500

DWELLING

(1220) N MONTEREY 175 W Congo; one-story and basement frame dwelling.

Owner—F. J. Davis, 171 Lee Ave.
Architect—None. \$3000

APARTMENTS

(1221) N FRANCISCO 112 W Scott; three-story and basement frame (12) apts.

Owner and Builder—F. Antonioli, 2466 Francisco St.
Plans by Owner. \$37,000

ALTERATIONS

(1222) 3455 16th AVE.; alterations to apartments.

Owner—K. Felch, 3461 16th St.
Architect—None.
Contractor—J. D. Woodside, 3460 Mission St. \$1000

ALTERATIONS

(1223) GT. HIGHWAY bet. Ulloa and Vicente; alterations for golf course

Owner—H. M. Freesley, 250 23rd Ave.
Plans by De Witt Norris, 1856 Live Oak Drive, Los Angeles. \$10,000

STORE

(1224) 2716 MISSION ST.; one-story and basement class C stoer.

Owner—S. H. Kress & Co., 114 5th Ave., New York.

Architect—J. A. Fleming, 1031 Broadway, Los Angeles.
Contractor—K. E. Parker Co., 135 So. Park St. \$65,000

FLATS

(1225) N 20th St. 129 W Guerrero; two-story and basement frame (2) flats.

Owner—J. Monaghan, 830 Guerrero St.
Architect—None. \$7000

REMODELING

(1226) 3333 PACIFIC AVE.; remodel dwelling.

CAPITAL CITY TILE COMPANY

J. C. PALEN

Manager

914 Seventh Street

Sacramento - - - California

Owner—J. W. Towne.

Architect—W. C. Perry, 260 California Street.
Contractor—Moore and Madsen, 557 Market St. \$5000

RESIDENCE

(1227) N JACKSON 40 W Steiner; 2-story and basement frame residence.

Owner—Mr. and Mrs. Zalinsky, 467 15th Avenue.

Architect—Hyman & Appleton, 68 Post Street.
Contractor—Jacks and Irvine, 74 New Montgomery St. \$18,000

DWELLINGS

(1228) W 25th AVE. 275 S Ulloa; 2 1-story and basement frame dwellings.

Owner & Builder—N. E. Johnson, 270 Monterey Blvd.
Architect—None. \$7000

DWELLING

(1229) E BONVIEW 231 S Eugenia; one-story and basement frame dwelling.

Owner—J. Kearney, 77 Norton St.
Architect—None.
Contractor—J. Horn, 5044 Mission St. \$3500

ALTERATIONS

(1230) NE MISSION & MURRAY; alterations for miniature golf course

Owners—J. B. Montgomery and C. E. Porter, 234 27th St. \$10,000

ALTERATIONS

(1231) N CLEMENT ST. 32 E 24th Ave.; alterations for miniature golf course.

Owner—V. L. Riley, 2260 Lyon St.
Plans by R. E. Nolan, 275 12th Ave. \$3000

APARTMENTS & STORES

(1232) SW SAN BRUNO AVE. 134 NW Burrows; 3-story and basement frame (10) apts. with stores.

Owner—B. Stone, 1733 12th Ave.
Architect—None. \$10,000

DWELLING

(1233) W BENTON 360 S Geneburn; one-story and basement frame dwelling.

Owner—St. Mary's Park, 3901 Mission.
Plans by D. E. Jaekle, 747 Call Bldg.
Contractor—A. R. Johnson, 3901 Mission St. \$4000

DWELLING

(1234) W BENTON 389 S Geneburn; one-story and basement frame dwelling.

Owner—St. Mary's Park, 3901 Mission.
Plans by D. E. Jaekle, 747 Call Bldg.
Contractor—A. R. Johnson, 3901 Mission St. \$4000

DWELLINGS

(1235) E 22nd AVE. 75 S Quintara; three 1-story and basement frame dwellings.

Owner and Builder—L. Costello, 332 27th Avenue.
Architect—None. 4000 each

REPAIRS

(1236) 792 McALLISTER ST.; repair fire damage.

Owner—Skelly Estate Co., 666 Mission Street.
Architect—None.
Contractor—A. L. Vezina, 666 Mission Street. \$1000

ALTERATIONS

(1237) 1249 GRANT AVE.; alterations for indoor golf course.
Owner—P. Branger, 354 Columbus Avenue.
Plans by Contractor.
Contractor—California Studios, Hearst Bldg. \$1000

DWELLINGS

(1235) N MORAGA 32 E 21st Ave.; five 1-story and basement frame dwellings.
Owner and Builder—Castle Bldg. Co., 830 Market St.
Architect—None. each \$2900

BUILDING CONTRACTS

San Francisco County

No. Owner	Contractor	Amt.
197 Baker	Coburn	14450
199 S. P.	Municipal	2450
198 Lievre	Linderman	54000
200 Tay	Cramer	1500
201 McLean	Lombard	3039
203 Lindeman	Lindeman	60000

ALTERATIONS

(197) SW JACKSON and Front Sts. W 137-6 x S 91-8; alterations and additions to building.
Owner—Cole H. Baker, 2048 Market Street.
Engineers—Leland S. Rosener, 233 Sansome St.
Contractor—Ira W. Coburn, 2048 Market Street.
Monthly payments of.....75%
Usual 35 days.....25%
TOTAL COST, \$14,450
Limit, 70 days. Plans and Spec. filed.
Permit applied for Sept. 18, 1930.

FLATS

(198) W LYON 35 N Clay N 100-4 1/2 W 137-6 x S 35-4 1/2 E 27-6 x S 65 E 110; all work on three 2-story and basement frame flats.
Owner—Geo. Lievre, Alexander Bldg. Architect—None.
Contractor—H. O. Lindeman, 609 27th Avenue.
Filed Sept. 19, '30. Dated Sept. 5, '30.
Frame up and enclosed.....25%
Rough plastered.....25%
Completed.....25%
Usual 35 days.....25%
TOTAL COST, \$54,000.
Bond, \$54,000. Sureties, Massachusetts Bonding & Ins. Co. Limit, 120 days. Plans and Spec. filed.

PAVING, ETC.

(199) OLNEY AVE. bet. 2nd St. and San Bruno Ave. and Le Conte Ave. bet. Keith and 3rd Sts.; paving, curbs and side sewers.
Owner—Southern Pacific Co., 65 Market St.
Architect—None.
Contractor—Municipal Const. Co., Call Bldg.

Filed Sept. 19, '30. Dated Sept. 6, '30.
Monthly payments of.....75%
Usual 35 days.....25%
TOTAL COST, \$.....
Bond, \$2450. Sureties, U. S. Guarantee Co. Limit, 120 days. Plans and Spec. filed.

PAINTING, ETC.

(200) NE EIGHTH and Natoma Sts.; painting, staining, varnishing, etc. for building.
Owner—Tay-Holbrook, Inc., 165 8th Street.
Architect—J. E. Krafft & Sons, Phenian Bldg.
Contractor—Cramer Bros., 1941 15th Street.
Filed Sept. 20, '30. Dated Sept. 18, '30.
Completed and accepted.....\$125
Usual 35 days.....375
TOTAL COST, \$1500
Bond, \$750. Sureties, United States Fidelity & Guaranty Co. Plans and Spec. filed.

SEWERING, ETC.

(201) N 18th 111-3 1/2 W Guerrero 47-11 x N 127 E 31-10 1/2 128-3 to bog; sewer, plumbing, gas fitting water supply, finish fixtures, etc., for 3-story frame apartment bldg.
Owner—Isabella McLean, 363 18th St.
Architect—G. A. Berger, 309 Valencia Street.

Contractor—James Lombard and F. Kemmerle, 445 Moraga St.
Filed Sept. 20, '30. Dated Sept. 19, '30.
Roughed in.....\$159.50
Completed and accepted.....759.75
Usual 35 days.....759.75

TOTAL COST, \$3039
Bond, \$3039. Sureties, H. J. Schurr, J. A. Symon, Forfeit, \$10. Limit, 90 days. Plans and Spec. filed.
202 Hobart Orsi 498

PAINTING

(202) W GRANT AVE. 76-6 N O'Farrell St. N 41 W 91-0 1/2 S 40 E 39-11 1/2 S 1 E 51; painting.
Owner—Hobart Estate Co.
Architect—None.
Contractor—Q. Orsi Co., 45 Columbus.
Filed, Sept. 23, '30. Dated Sept. 12, '30
Usual 35 days.....\$498

TOTAL COST, \$498
Bond, \$498. Sureties, Maryland Casualty Co. Limit, 10 days. Plans and Spec. filed.

APARTMENTS

(203) E PARKER AVE 666-6 N Euclid Ave E 106 N 74-873 W 106-553 S 64-03. All work for three-story frame apartments.
Owner—H. O. Lindeman, 619 27th Ave., San Francisco.
Architect—None.
Contractor—W. R. Lindeman, 829 44th Ave., San Francisco.
Filed Sept. 24, '30. Dated June 16, '30
Frame up.....\$15,000
Rough plastered.....15,000
When completed.....15,000
Usual 35 days.....15,000
TOTAL COST, \$60,000.
Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

San Francisco County

Recorded Accepted

Sept. 19, 1930—NW MANOR DRIVE dist NE from SW line lot 6 blk 3278 NE 40 N 62° 08' W 75 SW 40-012 S 62° 08' E 76. E L and R M Schaadt to whom it may concern.....September 19, 1930
Sept. 19, 1930—NW MANOR DRIVE dist 10 SW from NE line lot 7 blk 3278 NE 40 N 62° 08' W 76 W 40-012 S 62° 08' E 76-5. E L and R M Schaadt to whom it may concern.....September 19, 1930
Sept. 19, 1930—1032 MARKET ST. Plign Whistle Corp to Jacks and Irvine, Inc.....September 12, 1930
Sept. 19, 1930—LOT 8 BLK 2957A map Sub no 3, Miraloma Park; lots 23 and 33 to 41 blk 2947A, map Sub No 3, Miraloma Park. Meyer Bros to whom it may concern.....September 18, 1930
Sept. 19, 1930—E 21st AVE 75 N Linton 25x55. August Hallgren to whom it may concern.....Sept. 19, 1930
Sept. 19, 1930—E 34th AVE 155 N Judah 30x120. P S Miller to whom it may concern.....Sept. 18, 1930
Sept. 18, 1930—LOT 28 BLK E, map Addus to Castro Alden and Glen Park Terrace. Henry Erickson to whom it may concern.....Sept. 18, 1930
Sept. 18, 1930—SW REVERE AVE 150, 175 and 200 SE Jennings SE 25 x SW 100. Arturo and Assunta Barsotti to whom it may concern.....September 18, 1930
Sept. 18, 1930—E DIVISADERO 35 S Hayes St. Bank of Italy to Tholander Const Co.....Sept. 18, 1930
Sept. 18, 1930—SW GREENWICH & Stockton Sts. A C Frenze to J D

Tucker.....September 18, 1930
Sept. 18, 1930—N GEARY ST 50 E 22nd Ave E 20 x N 100. St Elmo to A Elvin.....September 18, 1930
Sept. 18, 1930—W 12th AVE 150 S Irving S 25 x W 120 ptn Sunset Blk 654. Catherine Sowik to P J Hurley.....September 14, 1930
Sept. 18, 1930—PTN LOT 14 BLK 3048 map Blks 30-8 and 3049 Montecrey Heights deacid. W St Elmo Way dist 7 S from N line lot 14 SW 148-537 N 104-301 E 90-099 to bog. Henry and Hazel Stoneson to whom it may concern.....September 16, 1930
Sept. 17, 1930—NW CARRILLO and 27th Ave W 55 x N 105. Wm Joyner to H P Hoyt.....Sept. 15, 1930
Sept. 17, 1930—SE VICENTE and 22nd Ave S 100 x E 82-6; NE Wawona and 22nd Ave N 25 x E 82-6. Meyer Bros to whom it may concern.....September 15, 1930
Sept. 23, 1930—4614-16-18-20 17th St. J R McKee to whom it may concern.....September 22, 1930
Sept. 23, 1930—NE GIRARD ST and NW Olmstead St, 30x95. J Koblin and Amalia alias Anell Bilinsky to F Amatore.....September 22, 1930
Sept. 23, 1930—347 FIFTH ST. Anna O and Carl Erlsson to Louis Engen.....September 22, 1930
Sept. 23, 1930—S ULLOA ST 95 E 26th Ave E 50 x S 100. N E Johnson to whom it may concern.....September 23, 1930
Sept. 22, 1930—1032 MARKET Street. Plign Whistle Corp to Roberts Mfg Co; D N & E Walcott Co; Scott Co; W C Cole & Co; Doherty & Tel Supply Co; Peterson & Miller; Combs Elevator Co; F J Kilman Co.....September 12, 1930
Sept. 22, 1930—N HAVELOCK 267-6 E Arago 27x225. John & Frieda Thomsen to whom it may concern.....September 22, 1930
Sept. 22, 1930—N GREENWICH 106 W Octavia, Nos 1826-1828 Greenwich St. S Guardino to G Ghezzi.....September 20, 1930
Sept. 22, 1930—S ARMY 90 W Dolores W 25 x S 114. T Staley and M Hanly to O H Anderson.....September 25, 1930
Sept. 20, 1930—SW FULTON and Divisadero S 137-6 W 92 N 48-6 D 45-6 N 89 E 137-6. Shell Oil Co to E J Brown.....September 13, 1930
Sept. 20, 1930—N SACRAMENTO St and E Battery St N 59-9 x E 70. Richfield Oil Co to P F Spiedel.....September 13, 1930

LIENS FILED

San Francisco County

Recorded	Amount
Sept. 17, 1930—S FULTON ST and W Divisadero St S 137-6 W 137-6. Pacific Coast Aggregates, Inc vs E J Brown and L H Maise.....\$75.56	
Sept. 17, 1930—S HALE 150 W Barneveld Lot 7 Blk 8, map Tract A, Peoples Hd Assn. California Terrazzo Marble Co vs J F Thorne and Louis R Stenman.....\$61.60	
Sept. 24, 1930—SE COR RACON and Gueltingen NE 25 x SE 100. B. Milano vs J Spinuzzi and M and E Crescio.....\$239.50	
Sept. 24, 1930—N HALE 150 W Barneveld. O G Windell vs L R Stenman and J F Thorne.....\$48	
Sept. 24, 1930—E GILBERT 180 N Brannan N 25x80. Golden Gate Atlas Materials Co vs J M Piccini.....\$120	
Sept. 22, 1930—E GILBERT 180 N Brannan N 25 x E 80. J H McCallum vs J M Piccini.....\$414.17	

ARCHITECT'S CERTIFICATE

SAN FRANCISCO COUNTY

Sept. 23, 1930—E R MacDonald has filed his architect's certificate for San Francisco County

RELEASE OF LIENS

San Francisco County

Sept. 22, 1930—S CHIRSTNUT ST W Larkin St E 92-6 x W 137-6, L Sonneborn Sons, Inc to W H Morgan and S W Straus & Co, L L Landy as The Lowell Co.
Sept. 20, 1930—N 19th St E Douglas E 34 x N 145, Ed Adair to Herman G Vogel.
Sept. 19, 1930—W STEINER 92-8 1/2 N Jackson N 35 x W 75, J L Singewald as Reliable Plumbing & Heating Co to M Zelinski and E A Cornely Inc.....\$285

BUILDING PERMITS

ALAMEDA COUNTY

No.	Owner	Contractor	Am't.
1175	Williamson	Van Gelder	1000
1179	Lahti	Owner	3200
1180	Dennison	Reinertsen	3000
1181	Wellington	Owner	7000
1182	Netherby	Owner	4000
1183	Lodge	Owner	6500
1184	Colbert	Arthur	4800
1185	Rosberg	Owner	2950
1186	Foster	Beckett	10000
1187	Painton	Pearson	6500
1188	Empire	Swanstrom	4443
1189	Lena	Owner	5000
1190	Druham	Owner	2000
1191	DeWitt	Dewitt	2000
1192	Johanson	Owner	3950
1193	Central	Muller	1400
1194	Hoyt	Stolte	4500
1195	Swanson	Owner	4000
1196	Ashley	Dolan	9500
1197	East Bay	Owner	4125
1198	Hooper	Paiter	4800
1199	Larsen	Metz	1200
1200	Howard	Owner	4000
1201	Howard	Owner	3500
1202	Layton	Kopf	3400
1203	Comunelli	Owner	1500
1204	Fenton	Getz	1600
1205	Johnson	Nylander	6000
1206	Murvey	Jordan	7200
1207	Oxley	Falk	5000
1208	Rezende	Young	5000
1209	Urch	Owner	6200
1210	Kanppela	Owner	3000
1211	Cutter	Owner	1550
1212	Guiney	Owner	1700
1213	Krygell	Beckley	1000
1214	Arnold	Linfoot	2300

ALTERATIONS

(1175) 1465 CORNELL AVE., BERKELEY; alterations.
Owner—L. W. Williamson, Blake and Grove Sts., Berkeley.

Architect—None.
Contractor—F. Van Gelder, 1716 Delaware St., Berkeley. \$1000

RESIDENCE

(1179) 2413-15 BYRON ST., BERKELEY; one-story 6-room 2-family frame residence.

Owner—Sam Lahi, 2815 8th St., Berkeley.
Architect—None. \$3200

RESIDENCE

(1180) 1767 CAPISTRANO AVENUE, BERKELEY; one-story four-room 1-family frame residence.

Owner—A. L. Dennison, 1757 Dennison, Berkeley.
Architect—None.
Contractor—A. B. Reinertsen, 914 Carmel St., Berkeley. \$3000

RESIDENCE

(1211) 98 CORDORICES RD., BERKELEY; two-story 10-room 1-family frame residence.

Owner—E. Wellington, 1406 Euclid Ave., Berkeley.
Architect—None. \$7000

DWELLING

(1182) S ESTATES DR. 150 E Dawes OAKLAND; 2-story 6-room dwelling.

Owner and Builder—W. A. Netherby, 3553 Lyman Road, Oakland.
Architect—None. \$4000

DWELLING

(1183) N WAWONA AVE. Inter. Portland Ave., OAKLAND; two-story 6-room dwelling.

Owner and Builder—C. F. Lodge, 719 Collier Drive, Oakland.
Architect—Ray Keefer, 3281 Lakeshore Ave., Oakland. \$6500

DWELLING

(1184) E ALCALA 80 S Oak Knoll Blvd., OAKLAND; one-story six-room dwelling.

Owner—J. Colbert, 1466 101st Avenue, Oakland.
Plans by G. H. Vore, 1466 87th Ave., Oakland.
Contractor—Wm. Arthur, 9520 Alcala Ave., Oakland. \$4500

DWELLING

(1185) W PIERSON 261 N Morcom Ave., OAKLAND; one-story five-room dwelling.

Owner and Builder—August Roseberg, 1712 48th Ave., Oakland.
Architect—None. \$2950

RESIDENCE

(1186) 971 EUCLID AVE., BERKELEY; one-story 8-room 1-family frame and stucco residence and garage.

Owner—F. L. Foster, 558 The Alameda, Berkeley.
Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.
Contractor—Beckett and Wight, 722 Scenic Ave., Piedmont. \$10,000

STORE

(1187) 889 ENCENADO AVE., BERKELEY; one-story class C store.

Owner—H. R. Painton, San Francisco.
Architect—C. H. Vore, Oakland.
Contractor—G. H. Pearson, 1306 Perryman St., Berkeley. \$6500

ALTERATIONS

(1188) NE COR. MADISON & LAKE STS., OAKLAND; alterations.

Owner—Empire Trading Co. 16th and San Pablo Ave., Oakland.
Architect—W. E. Schirmer, 700 21st St., Oakland.
Contractor—George Swanstrom, 1723 Webster St., Oakland. \$4449

WAREHOUSE & GARAGE

(1189) N 19th St. 183 W Adeline St., OAKLAND; one-story concrete warehouse and garage.

Owner and Builder—Nat Lena, 2307 Encinal Ave., Alameda.
Architect—None. \$5000

ALTERATIONS

(1190) 827 CENTER ST., OAKLAND alterations and additions.

Owner and Builder—Frank Durham, 827 Center St., Oakland.
Architect—None. \$2000

ADDITION

(1191) 3478 LOUISE ST., OAKLAND; addition.

Owner—DeWitt Detachable Bit Co., 3478 Louise St., Oakland.
Architect—None.
Contractor—C. W. Dewitt, 3478 Louise St., Oakland. \$2000

DWELLING

(1192) 7307 NEY AVE., OAKLAND; one-story 5-room dwelling.

Owner and Builder—K. A. Johanson, 2532 76th Ave., Oakland.
Architect—None. \$3950

REPAIRS

(1193) 2321 WEBSTER ST., OAKLAND; fire repairs.

Owner—Central Development Co.
Architect—None.
Contractor—F. A. Muller, 805 Syndicate Bldg., Oakland. \$1400

OFFICE & SHOP

(1194) E HIGH ST. 150 SE 10th St. OAKLAND; one-story office and shop building.

Owner—Hoyt Heater Co., E 10th St. and High St., Oakland.
Architect—None.
Contractor—F. C. Stolte, 3455 Laguna Ave., Oakland. \$1500

DWELLING

(1195) S REDWOOD ROAD 50 E Detroit St., OAKLAND; one-story 6-room dwelling.

Owner & Builder—Axel Swanson, 3142 Ocean-consin St., Oakland.
Architect—None. \$4000

RESIDENCE

(1196) 505 BLAIR AVE., PIEDMONT two-story 7-room frame residence and garage.

Owner—Dr. N. N. Ashley, 622 Boulevard Way, Piedmont.
Architect—None.
Contractor—Leo Dolan, 316 17th St., Oakland. \$9500

PUMP STATION

(1197) 1507 GRAND AVE., PIEDMONT; pump station.
Owner and Builder—East Bay Municipal Utility District.
Plans by Owner. \$1125

RESIDENCE

(1198) 510 SANTA BARBARA ROAD, BERKELEY; one-story 6-room 1-family frame residence.

Owner—Dorothy G. Hooper, 732 Cragmont Ave., Berkeley.
Architect—None.
Contractor—J. Paiter, 209 Amherst. \$4300

ALTERATIONS

(1199) 2224 ROOSEVELT AVENUE, BERKELEY; alterations to brick oven.

Owner—Alex. Larsen.
Architect—None.
Contractor—Paul Metz, 855 44th St., Oakland. \$1200

DWELLING

(1200) 1547C SANTA CLARA AVE., ALAMEDA; 2-story 6-room frame and stucco dwelling.

Owner and Builder—C. C. Howard, 1541 1/2 Santa Clara Ave., Alameda.
Architect—W. W. Dixon, 1844 5th Ave., Oakland. \$4000

DWELLING

(1201) 1547B SANTA CLARA AVE., ALAMEDA; 2-story 6-room frame and stucco dwelling.

Owner and Builder—C. C. Howard, 1541 1/2 Santa Clara Ave., Alameda.
Architect—W. W. Dixon, 1844 5th Ave., Oakland. \$3500

DWELLING

(1202) 1820 NASON ST., ALAMEDA; 1 1/2-story 6-room frame and stucco dwelling.

Owner—Mr. Layton, 1849 Nason St., Alameda.
Plans by Owner.
Contractor—Ben. F. Kopf, 845 Pacific Ave., Alameda. \$3400

ALTERATIONS

(1203) 1677 SEVENTH ST., OAKLAND; alterations and additions for golf course.

Owner and Builder—Paul Comunelli, 428 Wood St., Oakland.
Architect—None. \$1500

SIGNS

(1204) 5300 FOOTHILL BLVD. OAKLAND; roof sign and electric sign.

Owner—Fenton Creamery Co.
Architect—None.
Contractor—Getz Elec. Sign Service, 6301 Contra Costa Road, Oakland. \$1600

DWELLING
(1205) 910 COLLIER DRIVE, SAN LEANDRO; six-room frame and stucco dwelling.
Owner—H. Johnson, 2438 68th Ave., San Leandro.
Architect—None.
Contractor—Nylander Bros., 633 Montclair Ave., San Leandro. \$6000

RESIDENCES
(1206) 1135-37-39 SPRUCE STREET, BERKELEY; three 2-story 4-room 1-family frame residences.
Owner—A. J. Murvey, 1142 Arch St., Berkeley.
Architect—None.
Contractor—M. Jordan, 80 Rock Lane, Berkeley. \$2400 each

DWELLING
(1207) 1121 LEE AVE., SAN LEANDRO; five-room frame and stucco dwelling.
Owner—W. S. Oxley, 227 Greenbank St., Piedmont.
Architect—None.
Contractor—C. W. Falk, 1520 F 38th St., Oakland. \$5000

DWELLING
(1208) 232 CHERRYWOOD SAN LEANDRO; 6-room frame and stucco dwelling.
Owner—M. J. Rezende, 5th St., Oakland.
Architect—None.
Contractor—J. Young, 233 Leo Ave., San Leandro. \$5000

DWELLING
(1209) NE COR. ROSS ST. and Shaf-tee AVE., OAKLAND; one-story 6-room dwelling and garage.
Owner and Builder—Ernest W. Urch, 1924 50th Ave., Oakland.
Architect—None. \$6200

RESIDENCE
(1210) 1430 ACTON ST., BERKELEY; one-story 4-room 1-family frame residence.
Owner—H. Kanppila, 1008 Hearst Ave., Berkeley.
Architect—None. \$3000

ALTERATIONS
(1211) 921 BLAKE ST., BERKELEY; alterations.
Owner—Cutter Laboratory, 4th and Parker Sts., Berkeley.
Architect—None. \$1550

ALTERATIONS
(1212) 3616 PENNIMAN AVENUE, OAKLAND. Alterations and additions.
Owner—Henry Guiney, Premises.
Architect—None. \$1700

DWELLING
(1213) NO. 6180 MORAGA ROAD, OAKLAND. One-story 3-room dwelling.
Owner—Mrs. M. Krygell, Premises.
Architect—None.
Contractor—H. M. Beckley, 2630 9th Ave., Oakland. \$1000

ADDITION
(1214) NO. 671 SIXTY-SECOND ST., OAKLAND. Addition.
Owner—Mrs. R. K. Arnold, 761 62nd St., Oakland.
Architect—None.
Contractor—J. H. Linfoot & Son, 739 Alcatraz Ave., Oakland. \$2300

Owner—E. D. Bothwell, 3404 Harper St., Oakland.
Architect—Albert E. Bothwell.
Contractor—Herbert K. Henderson, 393 40th St., Oakland.
Filed Sept. 19, '30. Dated Sept. 16, '30.
When frame is up.....\$1098.75
When plastered inside.....1098.75
When completed.....1098.75
Usual 35 days.....1098.75
TOTAL COST, \$4395.00
Limit, 70 days. Plans and Spec. filed.

COMPLETION NOTICES

ALAMEDA COUNTY

Recorded **Accepted**
Sept. 20, 1930—LOTS 25 and 26 BLK E, amended map of Christiana Tract, Albany. B Reinlinghaus to whom it may concern.....Sept. 17, 1930
Sept. 20, 1930—E 14th St 50 ft W of 40th Ave, Oakland. Wm C and George K Bates to W E Lyons.....September 10, 1930
Sept. 20, 1930—LOTS 21 and 22 BLK D, map of the Broadway and Telegraph Ave Tract, Oakland. Axel C Nelson to Self.....Sept. 19, 1930
Sept. 19, 1930—LOT 2 BLK K, Durrant Manor, Oakland. Albert Witt to Charles W Falk.....Sept. 8, 1930
Sept. 19, 1930—LOT C BLK 55, Alameda Park Homestead, Alameda. Anna A Arada to Steve Jones.....September 16, 1930
Sept. 19, 1930—PLEASANTON. Associated Oil Co to Dyer Const Co.....September 13, 1930
Sept. 19, 1930—702 SAN LOUIS RD, Berkeley. George W Hahn to L O Hansson.....September 16, 1930
Sept. 18, 1930—PTN LOT 26, Berkeley. Mary S and John A Bond to W H Hooper.....Sept. 12, 1930
Sept. 18, 1930—LOT 392 BLK U, Fernside Tract, Alameda. Arthur L Gottfried to Walter H Anderson.....September 16, 1930
Sept. 18, 1930—LOT 36, A Lane in Spain, Oakland. Wm Watson to whom it may concern.....Sept. 3, 1930
Sept. 18, 1930—LOTS 11 and 12 BLK K, Trumbull Tct, Oakland. Katherine Dahl also known as Catherine Dahl to J C Duhrkoop.....September 16, 1930
Sept. 18, 1930—699 LEE AVE, San Leandro. J A Arata to Warn Bros.....September 9, 1930
Sept. 16, 1930—9520 ALCALA AVE, Oakland. W Arthur to whom it may concern.....September 15, 1930
Sept. 17, 1930—SE SECOND and Harrison Sts, Oakland. Safeway Stores, Inc to Chas W Hoyer, Jr.....September 17, 1930
Sept. 17, 1930—LOT 11 BLK H, Estudillo Estates, San Leandro. Victor A Kaufenberg to whom it may concern.....September 17, 1930
Sept. 23, 1930—LOT 26 and Ptn lot 27 BLK D, Subdiv of BLK D and ptn BLK E Prospect Hill Tract, Oakland. John Ira and Ida Irene Jones to whom it may concern.....September 19, 1930
Sept. 23, 1930—LOT 48, map of Ardmore, San Leandro. Lawrence R Tyrel to Nylander Bros.....September 20, 1930
Sept. 22, 1930—LOT 23 BLK A, Durrant Manor, Oakland. Charles W

Griffith to whom it may concern.....September 18, 1930
Sept. 22, 1930—LOT 3 BLK K, Durrant Manor, Oakland. Lila and Leo W Norton to whom it may concern.....September 15, 1930

LIENS FILED

ALAMEDA COUNTY

Recorded **Amount**
Sept. 20, 1930—N BROCKHURST ST 345-65 ft W of Grove St, Oakland Swanson-Uhl Paint & Wall Paper Co vs Thomas Cox, E L Phelps.....\$51.95
Sept. 19, 1930—N BROCKHURST ST 435-65 ft W of Grove St, Oakland. L B Andrews as General Drayage Co vs Hugo Lederer and E L Phelps.....\$24.75
Sept. 19, 1930—LOT C BLK 55, map of Alameda Park Hd, Alameda. Makin & Kennedy, Inc vs A A and Fillmore Arada.....\$362.05
Sept. 18, 1930—148 BAYO VISTA, Oakland. J M Dale vs Mrs Clouse, B H Crandall, Grace H and Mrs Chester Williams.....\$159.10
Sept. 18, 1930—N DWIGHT WAY 250 ft E of Fulton St, Berkeley. Aladdin Heating Corp vs Clarila W Duffey as Mrs Frank J and C W Duffey.....\$413.50
Sept. 17, 1930—N BROCKHURST ST 345-65 ft W of Grove St, Oakland. Wm Ebaugh vs Thomas Cox and E L Phelps.....\$32
Sept. 22, 1930—LOT 5 BLK N, Excelsior Heights, Oakland. Ariss-Knapp Co vs R A and Margaret Boydston, J S Bercovlch.....\$465

RELEASE OF LIENS

ALAMEDA COUNTY

Recorded **Amount**
Sept. 22, 1930—PT OF LAND conveyed by Realty Syndicate Co to W F Hoyd Feb 28, 1921, and recorded in Vol 415, official records page 476, Piedmont. M S Sommers to Perle D Froelich and H E Williams.....\$355
Sept. 22, 1930—PT OF LAND conveyed by Realty Syndicate Co to W F Hoyd Feb 28, 1921, and recorded in Vol 415, official records page 476, Piedmont. State Roofing Co to David and Perle Dayton Froelich, Hugh E Williams.....\$110
Sept. 19, 1930—LOT 20 BLK 3, Shaw Tract, Berkeley. The California Door Co to W A Larkin, Mable E Tipton.....\$1015
Sept. 19, 1930—PTN LOTS 34 and 41 map No 2, Glen Echo Tract, Oakland. J W Pearson to James and John Vallance.....\$33.37
Sept. 16, 1930—PTN LOT 9 BLK 9, Fruitvale Gardens Farms, Oakland. Berkeley Bldg Material Co to Regina M Cummings and M Medis.....\$79.46
Sept. 18, 1930—N BROCKHURST ST 345-65 ft W of Grove St, Berkeley. Wm Ebaugh to Thomas Cox.....\$32

Member Insurance Brokers' Exchange

FRED H. BOGGS
INSURANCE
490 GEARY STREET

Phone FRanklin 9400

San Francisco

BUILDING CONTRACTS

ALAMEDA COUNTY

No. Owner Contractor Amt.
162 Bothwell Henderson 4395

RESIDENCE
(162) N HARPER ST, approx. 350 ft. W of 35th Ave., Oakland; general construction on 1-story frame and stucco residence with basement garage.

Sept. 23, 1930—PTN OF the land conveyed by Realty Syndicate Co to W F Hoyt Feb 28, 1921 and recorded in Vol 3053 of deeds page 272. Piedmont. Fred Schmitts to David and Park Dayton Froelich. Hugh E Williams.....\$106
Sept. 23, 1930—N BROCKHURST St 345-65 ft W of Grove St, Oakland. Swanson Uhl Wall Paper & Paint Co to Thomas Cox.....\$51.95
Sept. 22, 1930—PT OF LAND conveyed by Realty Syndicate Co to W F Hoyt Feb 28, 1921, and recorded in Vol 15, official records page 476. Piedmont. M Medis to Perle D Froelich, H E Williams.....\$255.67

BUILDING CONTRACTS

SAN MATEO COUNTY

BARN

W CANADA ROAD, Woodside. All work for one and two-story frame and stucco barn and rooms.

Owner—Alma Spreckels Rosekrans San Francisco.

Architect—Bakewell & Weihe, 251 Kearny St., San Francisco.

Contractor—Chas. Stockholm & Sons, Russ Bldg., San Francisco.

Filed Sept. 19, 1930. Dated Sept. 18, 1930.

As work progresses.....75%

Usual 35 days.....25%

TOTAL COST, \$—

Bond, none. Limit, 90 days. Forfeit, \$25. Plans and specifications filed.

BUILDING PERMITS

SAN MATEO

BUNGALOW, \$3500; Lot 3 Blk 7 east side Palm St.; owner, C. W. Parsons & Co., Inc., 229 2nd Ave., San Mateo; contractor, Hugo Huthberg, 29 San Mateo Ave., San Mateo.

RESERVOIR, \$3730; East Poplar St.; owner, Pacific Water Co., 365 B St., San Mateo; contractor, R. C. Steple.

WAREHOUSE, \$3000; S 50 ft. of Lot 70 N 50 ft. of Lot 71, Leslie; owner and builder, The Texas Co.

ELECTRIC wiring in county hospital, \$10,049; 39th Ave.; owner, San Mateo County; contractor, Seth Cohn 135 B St., San Mateo.

PLUMBING for county hospital, \$19,904; 39th Ave.; owner, San Mateo County; contractor, Scott Co., 243 Minna St., San Francisco.

RESIDENCE, \$10,000; Lot 3 ptn lot 2 Blk 301, Hillcrest Road; owner & builder, A. W. Stickney, 1629 Howard St., Burlingame.

RESIDENCE, \$5000; Lot 13 Blk 7, Barron Ave.; owner, Miss Nellie J. Brown, 1032 Redhill Ave., San Anselmo; contractor, W. B. Nichols, 455 Arlington St., San Francisco.

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded Accepted
Sept. 15, 1930—LOT 8 BLK 13, Burlingame. Richard P Minor to whom it may concern.....Sept. 15, 1930
Sept. 15, 1930—LOTS 5 AND 6 BLK 9, Stanford Park. John M Brown to whom it may concern.....Sept. 6, 1930

Sept. 17, 1930—LOT 25 BLK 2, Jefferson Park, San Mateo. Castle Bldg Co to Henry Horn.....Sept. 18, 1930

Sept. 17, 1930—LOT 19 BLK 1, Jefferson Park, San Mateo. Castle Bldg Co to Henry Horn.....Sept. 18, 1930

Sept. 17, 1930—LOT 45 BLK 2, Jefferson Park, San Mateo. Castle Bldg Co to Henry Horn.....Sept. 18, 1930

Sept. 17, 1930—LOT 4, Duncan Park, San Mateo. Earl D Baird

to whom it may concern.....Sept. 17, 1930

Sept. 17, 1930—LOT 1 BLK 5, Vista Grande. Florence E Clark to whom it may concern.....Sept. 15, 1930

Sept. 18, 1930—LOT 6 BLK 2, Jefferson Park, San Mateo. Castle Bldg Co to Henry Horn.....Sept. 13, 1930

Sept. 18, 1930—LOT 12 BLK 3, Jefferson Park, San Mateo. Castle Bldg Co to Henry Horn.....Sept. 13, 1930

Sept. 18, 1930—LOTS 1 AND 2 BLK 31, Crocker Tract. Daniel F Donovan to whom it may concern.....Sept. 16, 1930

Sept. 18, 1930—LOT 1, Brewer Tct, Hillsborough. Michael C Casserly to C H Bessutt et al.....Sept. 7, 1930

Sept. 19, 1930—NO. 6139 MISSION St., Daly City. J H Bangs to whom it may concern.....Sept. 16, 1930

Sept. 19, 1930—LOT 9 BLK 32, Baywood. Herbert A Thayer to Buschke & Johnson.....Sept. 17, 1930

Sept. 19, 1930—LOTS 26 AND 27 Blk 10, Central Park. Eric Standquist to whom it may concern.....Sept. 15, 1930

Sept. 19, 1930—LOT 7 BLK 28, Milbrae Highlands. Niels Schultz et al to Schultz Constr Co.....Sept. 11, 1930

Sept. 20, 1930—LOT 27 BLK 3, San Bruno. E Peterson to whom it may concern.....Sept. 17, 1930

Sept. 20, 1930—LOT 3 BLK 19, East San Mateo. Mathew Braikovich to Ashley L Powers.....Sept. 10, 1930

Sept. 20, 1930—LOT 8, Homestead. T L Kehoe to F J Broderick.....Sept. 12, 1930

LIENS FILED

SAN MATEO COUNTY

Recorded Amount
Sept. 15, 1930—LOT 30, Middlefield Park. Montague Furnace Co vs P G Schmidt et al.....\$160

Sept. 16, 1930—LOTS 1, 2 AND 3 Sub Lot 10 B, Bowie Estate, San Mateo. Harvey E Conner vs Thomas A Cavanagh et al.....\$780

Sept. 19, 1930—LOT D BLK 10, Burlingame Land Co. Carl A Torello vs W H Medley.....\$177.50

Sept. 19, 1930—PART LOT 26, Stanford Annex. A Silverstein alias vs Martin Dioli et al.....\$175

Sept. 20, 1930—LOT 2 BLK 19, Lomita Park. E E Phillips et al vs E M Wolf et al.....\$93.59

RELEASE OF LIENS

SAN MATEO COUNTY

Recorded Amount
Sept. 17, 1930—LOCATION NOT Given. Merner Lumber Co to J E Levy et al.....

Sept. 17, 1930—PART LOT 13, Kate Johnson Est Co. E R Ellis to whom it may concern.....

BUILDING PERMITS

BURLINGAME

DWELLING, \$6000; Lot 49 Cambridge Road Gates; owner and builder, J. F. Sachser.

RESIDENCE, \$5000; Lot 12 Blk 47, Humboldt; owner, Peter Damele; contractor, Antonio Pianca, 109 Pine Terrace, So. San Francisco.

RESIDENCE, \$6000; Lot 10 Blk 13, Benito; owner and builder, Richard Minor, 1357 Columbus Avenue, Burlingame.

RESIDENCE, \$6250; Lot 42 Blk 1, Comubus; owner, C. A. Dibble, Broadway, Burlingame; contractor Jas. Horne, 869 California Drive, Burlingame.

RESIDENCE, \$6000; Lot 2 Block 67,

Hillside; owner, J. W. Kyte; contractor, B. Norberg, 83 Morrell, Burlingame.

GOLF course, miniature, \$2000; Lot 2 Blk 8, California Drive; owner, T. B. Swenk; contractor, E. E. Fowler.

GOLF course, Indian miniature, \$2500; 1464 Burlingame Ave.; owner and builder, Anna D. Pray.

BUILDING PERMITS

REDWOOD CITY

DWELLING, frame, \$1500; No. 94 Bonita Ave., Redwood City; owner and Contractor, F. Gonzales.

DWELLING, frame, \$3200; No. 1631 Union Ave., Redwood City; owner, Robert N. Jones; contractor, J. B. Rixen.

DWELLING and garage, frame, \$6000 No. 330 Grand St., Redwood City; owner and contractor, Sandberg & Granlund.

ADD to garage (maid's room, etc.), \$1000; No. 735 Durlston Road, Redwood City L C Rowan, Premises wood City; owner, L. C. Rowan, Premises; contractor, H. H. Dabnatt, 2350 South Court, Palo Alto.

DWELLING and garage, frame, \$2000 No. 1619 Oxford St., Redwood City; owner and contractor, G. B. Casaretto, 1304 El Camino Real, Redwood City.

DWELLING and garage, frame, \$4000 No. 15 Hudson St., Redwood City; owner and contractor, Chas. H. Beckman, Barney St., Atherton.

DWELLINGS and garages (5) frame (bungalow court), \$12,000; No. 132 134-136-138-140 Birch St., Redwood City; owner, T. B. Lauman; contractor, I. M. Jones.

BUILDING PERMITS

SAN JOSE

ALTER club room in Class C building, \$1000; Third and Santa Clara Sts., San Jose; owner, Y. M. C. A., Premises.

ALTER frame residence, \$1000; No. 745 S-Eighth St., San Jose; owner, R. C. Gury, Premises; contractor, Paul Mager, 638 S-Fifth St., San Jose.

BUILDING PERMITS

PALO ALTO

RESIDENCE, frame and stucco, \$6500 No. 257 Dana St., Palo Alto; owner, G. H. Augustine; contractor, Sam B. Goss.

RESIDENCE, frame and stucco, \$4000; No. 566 Addison Ave., Palo Alto; owner, Alfred Dulton, Premises.

RESIDENCE, frame & stucco, \$6900; No. 1464 Hamilton Ave., Palo Alto; owner, W. H. Gibson, Woodland Ave., Palo Alto.

RESIDENCE and garage, frame and stucco, \$10,800; No. 1125 Hamilton Ave., Palo Alto. F M Warren, 1120 High St., Palo Alto; architect, Ed. Musson Sharpe, 525 Market St., San Francisco; contractor, H. H. Dabnatt, 2350 South Court, Palo Alto.

COMPLETION NOTICES

SANTA CLARA COUNTY

Recorded Accepted
Sept. 5, 1930—LOT 33, Santana Subdivision, San Jose. Harold H Wellington to whom it may concern.....August 30, 1930

Sept. 5, 1930—LOTS 7 AND 8 BLK 15, College Terrace, Palo Alto. James M Forrester and Harley I Warren to whom it may concern.....Sept. 3, 1930

Sept. 5, 1930—SW FIRST ST. and SE Cor. Lot 12-B S R 1 N, San Jose. Messing Estate Co to whom it may concern. Aug. 30, 1930

Sept. 8, 1930—LOT 13 BLK 2, Hevlin Subd., San Jose. Loyce W Hevlin to whom it may concern.....Sept. 6, 1930

Sept. 8, 1930—W NINTH ST 318.83 N Julian St., San Jose. Gaytan Oriente et al to whom it may concern.....Sept. 4, 1930

Sept. 10, 1930—LOTS 1 AND 2 BLK 31, College Terrace, Palo Alto. Frederick F Ballett to whom it may concern.....Sept. 2, 1930

Sept. 10, 1930—LOTS 1 AND 2 BLK 79, Morgan Hill. R H Hencken to whom it may concern. Sept. 10, 1930

Sept. 10, 1930—SE PINE AVE 49.3 SW Newport Ave., San Jose. A Janic to whom it may concern.....Sept. 5, 1930

Sept. 11, 1930—LOT 27, Glumas Subd., San Jose. Ethel M Schraub et al to whom it may concern.....Sept. 6, 1930

Sept. 11, 1930—LOT 15 BLK 3, Resurvey of Country Club Heights, San Jose. Henry T Azevedo to whom it may concern.....Sept. 6, 1930

Sept. 11, 1930—ON 1.90 ACRE, PT Driscoll & Reiter Tract, Santa Rita Rancho. Ernest G Johnson to whom it may concern.....Sept. 5, 1930

Sept. 11, 1930—ON 157 AC. BDD N by land Gaspar, E by Blumberg et al, S by land Weld, San Jose. Wm Pfeffer to whom it may concern.....Sept. 11, 1930

Sept. 12, 1930—ON 1.47 AC 1000 ft. SW San Francisco-San Jose Rd Part Driscoll & Reiter Tract, Santa Rita Rancho. Bertha B Parr Co to whom it may concern.....Sept. 2, 1930

Sept. 12, 1930—LOT 2 BLK 3, Lincoln Gates. H N Traxler to whom it may concern.....Sept. 12, 1930

Sept. 12, 1930—LOT 2 AND N 1/2 Lot 3 Blk 2 N R 5 W, Miller & Lux Western Addn, Gilroy. John M Durnell et al to whom it may concern.....Sept. 10, 1930

Sept. 13, 1930—LOT 19, Santana Subd, San Jose. Carl C Maurer to whom it may concern.....Sept. 12, 1930

Sept. 13, 1930—PART LOT 3 BLK 55, Palo Alto. Gustav Johnson to whom it may concern.....Sept. 4, 1930

Sept. 13, 1930—LOT 6, Orchard Villa Tract, San Jose. Helene Burkhard to whom it may concern.....Sept. 11, 1930

LIENS FILED

SANTA CLARA COUNTY

Recorded Amount
Sept. 5, 1930—5.02 ACRE on Stone Ave., San Jose. Freimuth Pipe & Sheet Metal Co vs Girolama Canzoneri.....\$16.71

Sept. 10, 1930—LOTS 19 & 20 BLK 2, Restwood Park No. 2, San Jose. Fred Hayden vs Thomas Carpenter.....\$503

Sept. 11, 1930—LOTS 12 AND 13, Marten's Subd also 15.29 ac Pt Lot 14, Marten's Subd., San Jose. Glenwood Lumber Co vs Bernardino Fleischmann.....\$113.47

Sept. 13, 1930—93.51 AC Bdd N by land Fulton Llagas & Malters, W by Lingas & Malters. Sterling Lumber Co vs Giles Bradley et al.....\$213.54

Sept. 15, 1930—PART LOT 1 BLK 4, Hart's Subd, Palo Alto. D & S

Lumber Co, Inc vs Katherine Clark Bralls (frnly Clark).....\$50.91

Sept. 15, 1930—5.39 AC ON SW SAN Francisco and San Jose Road. D & S Lumber Co, Inc vs R E Ashley.....\$328.57

Sept. 15, 1930—PART LOT 1 BLK 4 Hart's Subd., Palo Alto. Hugh McKenna vs Katherine Clark Bralls (formerly Clark).....\$30

Sept. 15, 1930—LOT 3 BLK 63, Resubd of Seale Addn No. 2, Palo Alto. Merner Lumber Co vs Wilson J Causey.....\$95.99

RELEASE OF LIENS

SANTA CLARA COUNTY

Recorded Amount
Sept. 11, 1930—LOTS A, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 and 16, Ramelview. G R Lewis to Estate of E Ramel et al.....

Sept. 15, 1930—LOTS 35 AND 36 and Part Lot 34, Spaulding Garden Tract also Lot 17 Blk 1, John L Chace's Garden Villa Lots. Concrete Engineer Co to The Garden Valley Co, Inc.....

BUILDING CONTRACTS

MONTEREY COUNTY

HOTEL
TYLER ST. 50 S Bonifacio Place, Monterey. All work for two-story hotel.

Owner—Clara Casper McMennamin, Monterey.

Architect—Blaine & Olson, 1755 Broadway, Oakland.

Contractor—C. H. Lawrence, 5321 Lawton Ave., Oakland.

Filed Sept. 15, '30. Dated Sept. 10, '30
Building completed.....1/2
Usual 35 days.....1/2

TOTAL COST, \$23,738

Bond, limit, forfeit, none. Plans and specifications filed.

NOTE:—The owner and contractor agree that the owner may if desired withhold payments on the contractor's fee, when due, and from time to time make payments on account with the total fee to be paid in full on or before June 30, 1931.

COMPLETION NOTICES

MONTEREY COUNTY

Recorded Accepted
Sept. 13, 1930—LOT 22 BLK 2, City of Monterey. Eastbay Glass Co vs George Miller (contractor) Sam Janvey (owner).....\$273

Sept. 17, 1930—BOUNDED ON S by land of Jeffrey W by Highway N by Cattlemen's Lane E by S. P. R R Co. S L Weber and H B Chadbourne vs Monterey County Ice & Development Co.....\$2185

LIENS FILED

MONTEREY COUNTY

Recorded Amount
Sept. 13, 1930—N 30 FT LOT 7 and south 20 ft of Lot 8, Blk 6, map of Stone's Addn, Salinas. George Foross to E L Kenville.....

Sept. 15, 1930—LOT 20 BLK 28, Addition.....o 4, Carmel by the Sea. Wm P Torres to Self. Sept. 13, 1930

Sept. 15, 1930—PT LOT 5 BLK 319, Pacific Grove Acres containing .187 of an acre. Melus Osgood Gay to DeWitt Appleton.....Sept. 12, 1930

Sept. 16, 1930—LOT 12 BLK 51, map of Pacific Grove Retreat. Peverly Raymond to R Wright.....September 8, 1930

Sept. 17, 1930—NLY LINE of Web-

ster St and Wly line of Ortega St, Monterey. Mrs C A Black to Sorensen & Hagemark. Sept. 12, 1930

Sept. 18, 1930—PTN LOTS 1, 2, 5, Blk 14, map of Oak Grove. Rena Torres Kellar to Wm P Sweeney.....September 15, 1930

COMPLETION NOTICES

MONTEREY COUNTY

Recorded Amount
Sept. 18, 1930—LOT 6 BLK 21, Ickor & Jackson Survey of Salinas, L H Taft to Self. Sept. 17, 1930

Sept. 19, 1930—LOT 17, Maple Park Addition No. 1. J Frank Laughton to Self.....September 18, 1930

LIENS FILED

MONTEREY COUNTY

Recorded Amount
Sept. 19, 1930—LOT 17 BLOCK 13, Hermann's Map of New Monterey. Carroll & Seale Co vs Mrs Flora Woods.....\$380

Sept. 19, 1930—LOTS 8 and 10 BLK 5, Monterey Heights. Stuart A Work vs John H Clark.....\$1667.85

Sept. 20, 1930—LOTS 8 and 10 BLK 5, Monterey Heights. C F Phillips vs A Work, Jr.....\$138

BUILDING PERMITS

STOCKTON

THEATRE, \$14,750; No. 28 E-Market St., Stockton; owner, Angelo Palerma, Premises; contractor, Wieland Bros., McHenry Rd., Modesto

DRY cleaning establishment, \$2000; No. 1650 South El Dorado St., Stockton; owner, K. H. Weaver. Premises; contractor, Frank Guyon 1211 E-Main St., Stockton.

RESIDENCE and garage, \$3800; No. 702 S-Tuxedo Ave., Stockton; owner, Walter G. Jackson, Prem.; contractor, F. P. Dobson, 1150 W-Haiding Way, Stockton.

INDUSTRIAL building, \$1500; No. 1025 W-Lindsay St., Stockton; owner, Stephens Bros. Boat Works.

COMPLETION NOTICES

MARIN COUNTY

Recorded Accepted
Sept. 15, 1930—MILL VALLEY. James E Burke to whom it may concern.....Sept. 13, 1930

Sept. 15, 1930—MILL VALLEY. John E Burke to whom it may concern.....Sept. 13, 1930

Sept. 18, 1930—SAN RAFAEL. Edward G Jackson to whom it may concern.....Sept. 15, 1930

Sept. 18, 1930—SAN RAFAEL. Lillian E Fox to whom it may concern.....Sept. 9, 1930

Sept. 19, 1930—NOVATO RANCH. Novato. Quincey and Mary Boone to C Witham, Henry Hess Co, etc (verbally).....Sept 4, 1930

COMPLETION NOTICES

CONTRA COSTA CNTY

Recorded Accepted
Sept. 20, 1930—LOT 10 BLK 3, Wills Addition to Antioch. Nathan C Dudley to Nathan C Dudley.....Sept 18, 1930

Sept. 16, 1930—LOT 5 BLK 3, Martinez Park Addition No. 1 Oscar A Wickman to Oscar A Wickman.....Sept. 15, 1930

Sept. 16, 1930—LOTS 7 AND 8 BLK 16, Richmond City Center. Julia Waring to whom it may concern.....Sept 17, 1930

Sept. 17, 1930—LOT 5 BLK N, Am No 1, Coloma. Johannes Liefeldt to Karl Kelle. Aug. 1, 1930
Sept. 17, 1930—1.9 MILES on Div No 40, Crow Canyon, near San Ramon. J H Wells, county clerk to Leo G Lynch. Sept. 15, 1930
Sept. 17, 1930—LONE TREE ROAD, Fairview Road and ptm of Brentwood Road in Sup Dist No 5, J H Wells, county clerk to U B Lee. September 15, 1930
Sept. 17, 1930—ROADS C-31 and C-32 Sup Dist No 3, 2.8 miles. J H Wells, county clerk, to Pereira & Reed. September 15, 1930

LIENS FILED

CONTRA COSTA CNTY

Recorded	Amount
Sept. 19, 1930—LOTS 36 AND 37 BLK 12, Richmond Center. R H Evans vs J F and Earl Zola Childs.	\$18
Sept. 20, 1930—LOTS 36 AND 37 BLK 12, Richmond Center. Louis Gavello vs J F and Earl Zola Childs.	\$25.81
Sept. 22, 1930—BEING PTN of land described in Deeds in Vol 228, pp 281. Hutchinson Co vs P L Lynne.	\$119.93
Sept. 22, 1930—BEING PTN of land described in Deeds in Vol 228, pp 281. Hutchinson Co vs G A and Frances E Engman.	\$184.41
Sept. 22, 1930—PTN PPTY of Bush in Martinez. Hutchinson Co vs E B Fitzpatrick.	\$750
Sept. 22, 1930—DESCRIBED parcel in the Bush Tract. Hutchinson Co vs Viola I Roseborough, also known as Mrs F L Roseborough, also known as Viola I Court.	\$195.09
Sept. 22, 1930—LOT 1 BLK 5, Torrey-Merrithew Addn. Martinez. Hutchinson Co vs W C and Marian Wilkinson.	\$327.04
Sept. 22, 1930—PTNS of H M Bush property, Martinez, originally a portion of Rancho Las Juntas. Hutchinson Co vs A E Lindsay.	\$1,080.35
owner, Hunt Hatch & Co.; contractor, Elec. Motor & Machine Works; alterations.	
46704 N 63rd St. 150 E of Shattuck Ave.; owner, Langtry; contractor College Ave. Elec. Shop; 25 outlets; 14 switches; 16 plugs.	
46705 1774 Broadway; owner, Kingren; contractor, Matson - Seabrooke Co; 2 outlets; 1 switch; 2 plugs; alterations.	
46706 665½ 29th St.; owner, Wood; contractor, Century Elec. Co; 2 outlets; 2 fixtures.	
Sept. 17, 1930—LOT 130, No 2, Walnut Lands. Frank Seaward and A G Quince vs Glenn F and Bertha B Lee, California Mutual Bldg & Loan Assn and Roy Arrellano.	\$1289.25 & int.

COMPLETION NOTICES

SONOMA COUNTY

Recorded	Accepted
Sept. 19, 1930—NO. 1212 RIPLEY St. being S 100 ft. Lot 12, Santa Rosa. C W Gandy to Andrew Stenbro.	Sept. 15, 1930

BUILDING PERMITS

SACRAMENTO

SERVICE station, \$2000; No. 631 Y St. Sacramento; owner and contractor, John E. White, 2117½ 9th St., Sacramento.
MINIATURE golf course, \$2000; No. 1015 L St., Sacramento; owner, C. Lewis, 1015 L St., Sacramento.
GENERAL repairs, \$1000; No. 431 16th St., Sacramento; owner, Peter Kraljer, Premises; contractor, Harry S. Brindle.

RESIDENCE, 6-room, \$4000; Lot 122, McKinley St., Sacramento; owner, L. Korens, 243 42nd St., Sacramento; contractor, W. L. Martin, 3541 E-Curtis Ranch, Sacramento
RESIDENCE, 7-room, \$7500; No. 551 35th St., Sacramento. A. S. Hackett, 1013 8th St., Sacramento

LIENS FILED

SONOMA COUNTY

Recorded	Amount
Sept. 19, 1930—LOTS 2, 3, 4, 5 AND 6 Blk 6, McBeth-Turner & Welch Addition, Santa Rosa. Bank Wrecking Co vs Frank Scaler and Agnes L McCarthy.	\$276.52

LIENS FILED

SACRAMENTO COUNTY

Recorded	Amount
Sept. 17, 1930—TWY 9 R 4 N, Sacramento. Latourrette-Fical Co vs Calif Co-Operative Producers English Est. Co. et al (38.083 acres).	\$517.34
Sept. 19, 1930—E ¼ LOT 3, all Lot 4, except E 40 ft. K L 67, Sacramento. H P Fischer (as H P Fischer Tile & Marble Co) vs The Lurie Co and Frances A Austin.	\$290
Sept. 19, 1930—NE ¼ LOT 3, all Lot 4 K L 67, Sacramento. Shorrick Smith Hardware Co, \$45.63; Al W Simmonds, \$80.25; Forsberg & Friese, \$153.28; W P Fuller & Co, \$855.39 vs Industrial Constr Co.	\$168
Sept. 19, 1930—LOT 185 New Era Park, Sacramento. A H Borchard (as Sacramento Hardwood Floor Co) vs Sam Guidera and Vita ux.	\$172.33
Sept. 19, 1930—LOT 185 New Era Park, Sacramento. Diamond Match Co vs Thos Angello.	\$472.33
Sept. 19, 1930—E 60 FT. LOT 4, K L 67, Sacramento. Thomas G Scollan Co, \$1905.92; Al W Simmonds, \$279.75; Forsberg & Friese, \$350.03 vs Industrial Constr Co.	\$5112.12
Sept. 19, 1930—E 60 FT. LOT 4 K L 67, Sacramento. W P Fuller & Co vs Industrial Constr Co et al.	\$1075.98
Sept. 19, 1930—E 60 FT. LOT 4 K L 67, Sacramento. H P Fischer Tile & Marble Co vs The Lurie Co and Elsie A Drexler.	\$2389.99
Sept. 17, 1930—LOT 43 Del Paso View Tract No. 1 known as Rt. 10 Blk 1736, Sacramento. Dolan Bldg Material Co vs Floren Dizon, Nellie Dizon and Grace L De Camp.	\$637.09
Sept. 17, 1930—E ¼ LOT 3 all Lot 4, K L 6th and 7th Sts., Sacramento. W J Clifford vs Francis A Austin and Lurie Co.	\$2589.99
Sept. 19, 1930—E 60 FT. LOT 4, K L 6th and 7th Sts., Sacramento. American Fuel & Material Co vs The Lurie Co.	\$510.87
Sept. 19, 1930—LOT 20, McKinley Blvd Tract No. 1, Sacramento. C H Krebs & Co vs Dean and Florence Sewell and Wm T Martin.	\$47.50
Sept. 19, 1930—LOT 185, New Era Park known as No. 2721 D St., Sacramento. Dolan Bldg Material Co vs Sam and Vito Guidera.	\$128.43
Sept. 19, 1930—E 60 FT. LOT 4, K L 6th and 7th Sts., Sacramento. George L Danner vs Industrial Constr Co.	\$425.27

Sept. 19, 1930—LOT 4 and E ¼ Lot 3, K L 6th and 7th Sts., Sacramento. M Oppen vs The Lurie Co. \$2223.95
Sept. 19, 1930—PTN SEC 1, Rio Del Paso. Walter Webb and N D White (as Sacramento Mortor Exchange) vs R Cook and G Sims (as North Sacramento Land Co) Sept. 19, 1930—E ¼ Lot 3, all Lot 4, K L 6th and 7th Sts., Sacramento. Paul Iron & Bridge Wks vs Lurie Co. \$518.10
Sept. 19, 1930—LOT 117, Lemon Hill Tract, Sacramento. Carlo Grossi vs Bell M Goldstein. \$100

BUILDING PERMITS

FRESNO

DWELLING, \$2650; No. 1280 Harrison Ave., Fresno. Taylor-Wheeler Inc., Power Co. Bldg., Fresno.
DWELLING and garage, \$4000; No. 1018 Vassar St., Fresno. A G Lampases, 257 N-Calaveras St., Fresno.
ALTERATIONS and additions, \$2500; No. 2037 F St., Fresno. Wm Hale Premises; contractor, C. J. McIntyre, 774 Elizabeth St., Fresno.
DWELLING, \$8000; No. 963 Vagades Ave., Fresno; owner, T. H. Nelson, 3041 Iowa Ave., Fresno.
DWELLING and garage, \$5900; No. 949 Echo St., Fresno. Mark Busacca; contractor, Taylor-Wheeler, Inc., Power Bldg., Fresno.
DWELLING, \$2500; No. 1346 Harrison Ave., Fresno; owner, H. C. Mong, 1823 White Ave., Fresno.
BUIDING, \$2800; No. 3502 Washington Ave., Fresno; owner, F. Dugovie.

COMPLETION NOTICES

FRESNO COUNTY

Recorded	Accepted
Sept. 19, 1930—LOTS 101, 102, 123 & 124, West Fresno Terrace. Henry Schneider to W T Harris.	Sept. 15, 1930
Sept. 17, 1930—LOTS 25 AND 26 Blk 24, Whitson Addn, Selma. W P Maxwell to whom it may concern.	Sept. 10, 1930

Members of the construction fraternity can do much to better the building program by educating the public to the fact that the cost of materials is lower now than at any time in the past few years.

Such was the message of Albert V. Weigel, trade commissioner for the Los Angeles Chamber of Commerce, in a talk before the Peninsula Exchange Club last Tuesday.

Weigel, who is making a domestic trade survey throughout the state, pointed to a record made recently in a southern California City. Enthusiasm in all branches of the building industry combined in an advertising and educational campaign that resulted in that city's biggest building program in eight years.

Prospective builders and homeowners were told and retold that building materials were cheap—that a home or building could be constructed for less money now than at any time in recent years.

"The people haven't any money," was characterized as a "hugaboo" by Weigel, pointing out that bank deposits recorded substantial gains during the so-called "period of depression."

BUILDING *and* ENGINEERING NEWS

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Contractor Is Liable For Injuries Caused by Obstructions In Street

A contractor is liable in damages for an injury caused by his negligence in building obstructions in the street. Sometimes the owners of motor vehicles which collide with such obstacles and cause injuries to pedestrians are liable also, but usually the contractor is solely liable, says The Contractor.

In *Fatjo v. Boulet Transp. Co.*, 125 So. 178, it was disclosed that a contractor who had contracted to construct a building constructed a platform of boards across the pavement from the property line and extending into the street some 10 or 12 inches. This platform was used by pedestrians who traversed the sidewalk. The boards of which the platform was built were very substantial but were loosely laid together. While a pedestrian was walking across the platform, a truck owned by the Boulet Transportation Company struck the platform with the left rear hub cap. This caused the boards to be raised up and separated, with the result that the pedestrian was precipitated to the sidewalk resulting in severe injuries. He sued to recover damages for the injuries on the grounds that the contractor was negligent in constructing the platform in such a manner that the ends of the boards protruded 10 to 12 inches into the street, and that the truck driver was negligent in failing to observe the boards.

The contractor was held liable, but the higher court held the truck owner not liable, saying:

"The evidence shows that there was a lot of debris around the building at the time of its construction. . . . The projection of the planking 10 to 12 inches from the curb was such an unusual, unheard of and unforeseeable thing, that no duty was imposed on this negro (driver) to look out for projecting planks. He was in charge of a large five-ton truck and his first and foremost duty was to watch the traffic proceeding and to avoid any injury to that, and he had no more reason to believe those planks were protruding there than he had to believe a bomb was placed ten inches from the curb of the gutter and he had to watch for that bomb."

LONE ARCHITECT BUSY

N. L. Troast of Sitka, the only architect residing in Alaska, has been retained to prepare plans for the Colonel Carl Eielson Building of Aeronautical Engineering to be erected in Fairbanks. At present he is supervising construction of a group of reinforced concrete buildings for the Agricultural Experiment Station at Matanuska, Alaska.

SEPTEMBER BUILDING TOTALS \$1,950,831

San Francisco Building operations during the month of September, 1930, involved an expenditure of \$1,950,831, according to records of the Bureau of Building Inspection of the Department of Public Works. During the month 549 permits were issued. Of these, 418 covered alterations, additions and repairs, estimated to cost \$261,849.

September, 1929, building permits involved an expenditure of \$1,842,015 when 536 permits were granted.

During the past nine months, records of the department show, a total of 5,013 permits were issued for improvements costing \$16,828,724 as compared with 5,462 permits for the corresponding period in 1929 when the total registered \$27,131,995.

Following is a segregated report of the September, 1930, activities:

Class	September, 1930 No. of Permits	Est. Cost
A	2	\$ 245,000
B	3	332,500
C	17	403,753
Frames	108	543,300
Alterations	418	261,849
U. S. Govt.	1	104,432
Total	549	\$1,950,831

GAS USED ON HIGHWAY WORK IS NOT TAXABLE

The California State Supreme Court rules that gasoline burned in vehicles, tractors and rollers of construction equipment used in repairing and constructing highways is not subject to the state gasoline tax.

The court affirmed a \$128 judgment against the state ordered by the Los Angeles superior court in a suit instituted by Oswald Bros. Paving Company. The sum in question had been paid to the state as gasoline taxes.

LUMBER FIRM IS SUED FOR FALSE ARREST

C. D. Plum, lumberman, last Wednesday filed another suit in the superior court at Sacramento for his alleged malicious prosecution on a charge of grand theft in Plumas County in 1927. Plum instituted the action against the Forgy Lumber Company whom, he declares, maliciously caused his arrest for the alleged theft of 300,000 feet of lumber, valued at \$6000. The charge later was dismissed.

Plum states in his complaint the criminal charge was brought to prevent him from filing an appeal for a civil case decided against him in favor of the Forgy Company.

In April Plum sued Alma Langdon, Parradine Kaiser, Leota Mullen and M. C. Kerr in a similar action. He asks \$50,000 in the Forgy action.

Secret Profits And Other Deals Laid To Celotex By Stockholder

William L. McFetridge of Chicago, who claims to own fifty shares of Celotex common stock, has filed a bill in the Superior Court at Chicago asking that a receiver be appointed for the Celotex Company, which he claims is insolvent.

Defendants named are the Celotex Company, B. G. Dahlberg and nineteen other directors. Dahlberg & Co. and the Dahlberg Corporation of America. The bill also asks that an accounting be had of the individual defendants.

This bill alleges that B. G. Dahlberg, president of the company, and a hand-picked board of directors, made more than \$10,000,000 in secret profits under guise of furthering financial condition of the company.

According to the bill, Dahlberg and associates, when contemplating organization of the Celotex Company, obtained options on land and equipment, which they sold to the Celotex Company at a cash profit of \$5,000,000, and received in addition 82,000 shares of stock worth another \$5,000,000. The bill says the property cost the company ten times more than its actual value.

The complaint also alleges that sugar mills and plantations in Louisiana, Cuba and Porto Rica were acquired by Dahlberg and in the face of a ruinous sugar market unloaded on the Celotex Company at a further secret profit. In addition, it is stated that large sums were spent in developing the West Coast Company, a subsidiary which was later abandoned at a great loss, and that another subsidiary, the South Coast Company, is in receiver-ship.

BOULDER DAM JOBS ARE NOT AVAILABLE

No jobs are available in connection with the Boulder Dam project it is announced by the U. S. Civil Service Commission.

The Commission points out that contracts for the construction of the major portions of Boulder Dam, recently named Hoover Dam, will not be let by the Interior Department for "a year or more."

"The bureau of reclamation and the civil service commission regard it as necessary to emphasize this to correct a general impression that a large construction force is to be organized at once or is already at work," the Commission's statement declared.

The Commission announced it had completed the task of examining and certifying eligibles for appointment as junior engineer for work on the dam and that it expected to finish within a few weeks the examination and certification of engineers of the higher grades.

ARC-WELDING ADVANTAGES IN ERECTION OF TALL BUILDINGS

By Gilbert D. Fish

Welding for building construction is receiving considerable attention in connection with proposed modification of building laws in New York and some other cities. The interest of the public, as reflected by the press, is concerned chiefly with the noise-elimination feature of the welding process, rather than with cost-saving or technical advantages.

Many cities and towns have already permitted welded building construction, in most cases without any changes in or additions to their building ordinances. Important instances can be cited in Newark, Boston, Philadelphia, Atlantic City, New Haven, Cleveland, Dallas, Los Angeles and Albany, but most if not all of the welded or partly welded buildings in these cities have been regarded by the authorities as special examples which did not commit them to recognizing the welding method for building generally. The largest all-welded building is the new 11-story Westinghouse laboratory at East Pittsburgh, where no ordinances govern construction methods, and several other record-making operations have been carried out in small towns where there has been no opportunity to establish valuable legal precedent.

It is noteworthy that welded building practice has grown and set a fine record of success in the face of serious interference by building ordinances in our largest cities. This obstruction has retarded the use of welding for commercial buildings more than for industrial buildings and has had a great deal to do with the low average of welded structures. The first large welded structure of any kind was the Westinghouse factory at Sharon, built 4 years ago; it was 80 feet high. The Sharon building was not approached in height by any other welded structure until the Yale Library Book Tower, 135 feet high, and the 13-story addition to the Homestead Hotel at Hot Springs, were erected in 1928. The new Boston Edison building, shop riveted and field welded, is 15 stories; the recently erected Edison Building in Los Angeles, mainly of welded construction but containing some shop rivets, is 12 stories.

Welding Tall Buildings

At a time when competition in high building construction is bringing into existence office buildings taller than the historic Eiffel Tower, it would be surprising if welded structure of 12 to 18 stories should greatly impress the public, even though thoughtful engineers realize that any limitation of the welding process making it unsuitable for tall structures would have become apparent in the fairly high buildings already constructed. It is precisely because welded structures of great height have not yet been built that certain tremendous advantages of welding over riveting for that class of work have not yet been realized in practice or recognized by more than a few engineers. Quite recently, in connection with proposed modifications of the New York City Building Code, there appeared in the press an expression of opinion, attributed to a group of engineers, to the effect that experience and precedent justify the use of welding in "structures of

Address of Mr. Fish, consulting structural engineer of the Westinghouse Electric & Manufacturing Company, before the New York Section of the American Welding Society, Sept. 16, 1930.

medium height where no wind stresses are involved.' This reservation seems to me unfortunate and misleading, because tests and practice have proved the superiority of welded joints over riveted ones for resisting the kinds of stress caused by wind. There is evidently an immediate need for stating in the plainest possible terms the reasons why welding possesses outstanding advantages for wind bracing, and why welded construction can definitely be pronounced suitable for buildings of extreme height.

Tall buildings are distinguished from low ones of heavy columns and by bracing designed to resist pressure from high winds. The upper half of a 30-story building is, in the structural sense, a 15-story building and is designed as such; the lower half is very different from a 15-story building because of the weight of the stories above with their contents and because of the wind pressure which must be transmitted from the upper stories to the foundation.

If architectural considerations did not forbid, wind bracing for very tall or very slender buildings would generally be accomplished by placing X-bracing in some of the vertical panels formed by columns and floor beams, thus forming vertical trusses capable of transmitting the horizontal wind forces to the foundation without inducing bending stresses in the members or connections. As the X-bracing method can but rarely be used, wind bracing is usually provided by making the beam-to-column joints strong enough in bending resistance to prevent collapse of the rectangular panels. Although there are numerous conflicting theories as to the distribution of wind bracing stress among the many joints in any one floor of a building, it is usually nearly true that the aggregate of wind bending moments in the joints of a given floor equals the total wind pressure above that floor, multiplied by the story height. A building does not need to be uncommonly high to have serious bending stresses in the joints of its lower stories.

Bending Resistance

The commonest way to provide bending resistance in a riveted joint connecting a beam to a column is to connect both top and bottom flanges to the column by means of angles or other connecting pieces riveted to the flanges of the beam and to the column. Bending stresses due to wind are resisted by a pair of horizontal forces at top and bottom connections, one force developing tension between beam flange and column and the other force compression. These forces alternate with reversal of wind direction, so that both connections act sometimes in tension and sometimes in compression. The limit of bending resistance of such a joint is generally governed by the strength of top or bottom attachment in tension, which tends to pull the connecting member out of shape and elongate the rivets

of the column connection. Sometimes, when the connection is very heavy and contains many rivets, the limit of resistance is governed by the tensile strength of the beam flange, weakened by rivet holes. Triangular gusset plates or diagonal knee-braces are occasionally employed as reinforcement to increase the strength and stiffness; they are expensive and architecturally objectionable in most cases.

Any one of several forms of welded beam-to-column connections can be made to develop any required bending resistance, up to the limit of strength of the main members, which are not weakened by rivet holes. Such a connection is simple, compact and reasonable in cost; in no case does it require projecting gusset plates or knee braces, unless for the purpose of reducing the stresses or the deformations in the main members. One photograph of such a connection is sufficient to illustrate the general fact. Such a joint has no element which can work loose or permit high local strains such as are common in riveted connections used for the same purpose; it follows that a building frame, braced by properly designed welded beam-to-column connections, cannot drift due to play or flexibility in the joints; all of the drift or deflection of such a frame is due to elastic deformation of the framework as a whole. For the sake of comfort of occupants of the upper stories of very tall buildings, it is sometimes necessary to confine the drift caused by wind within narrower limits than are imposed by strength requirements alone. Whereas stiffness rather than strength is the criterion for wind bracing design, welding has the advantage of greater stiffness than riveting. The taller the structure, the stronger the reasons for preferring welded wind bracing.

Flexibility

For some classes of joints commonly occurring in building frames, flexibility is necessary to avoid dangerous secondary stresses, and in such cases welded joints should be designed for flexibility of the same order as is found in riveted joints used for the same purposes. Wind bracing connections do not fall under this heading; they should be made rigid, and no drawback of any sort results from making them so. Beams connected to columns by very rigid wind connections, whether welded or riveted, are fixed or continuous beams and should be designed as such to carry floor loads and wind load combined. The prevailing American practice of treating riveted beams as simple or unrestrained in their action under floor loads leads to serious inconsistencies in design when the connections are made very rigid to resist wind. Whereas ignoring partial restraint at end connections results in error on the side of safety in designing beams for floor load only, the error is on the danger side in designing beams to resist wind bending and floor loads at the same time.

The properties of welding result in advantages for wind bracing purposes, as follows:

Continued on page 24

VISITORS ON JOB MUST WATCH STEP

If your business calls you to a place where building is going on, the law expects you to look out for the unexpected. So be careful. Watch your step. And, more particularly, look where you are stepping. For you may step onto a piece of lumber, on a keg of nails, or upset some hot lead and get hurt. And if you do, you cannot recover damages from the contractor.

Such is the effect of a ruling just made by Superior Judge Leon R. Yankwich of Los Angeles county in denying Don Wood, a salesman for a local refrigeration company, damages against J. N. Fickling, local contractor. Wood sued Fickling for \$10,248 on account of injuries he suffered when he stepped into a pot of hot lead, such as plumbers carry around in their work.

The accident occurred June 27, 1929, at an apartment building which was in the process of construction and on which Fickling had the plumbing contract. The circumstances under which it occurred were rather unusual. Wood had gone to the place to talk to R. N. Carson, who had the general contract for the building of the apartment house. While he was talking to Carson, Wood stood in the doorway of a small shed, used by Carson as an office and as a repository for tools by all the subcontractors.

It was 4:30 in the afternoon and the workmen began quitting. A plumber carrying some tools asked Wood to let him pass. He no sooner did than another said, "Please let me get by." This time Wood, instead of keeping his place or stepping inside, stepped backward onto the sidewalk without looking.

The workman who had placed the pot of lead on the ground stated that he did so because he saw Wood in the doorway. As he had other tools to bring up, he decided to leave the lead near the wall and go after them. He claimed that when he put the pot near, he shouted, "Look out for hot lead." Wood claimed he did not hear the warning. At the conclusion of the case, Judge Yankwich gave judgment for Fickling.

"To place hot lead on a sidewalk might, ordinarily, be negligence in itself," said Judge Yankwich. "However, we are not dealing with the rights of a person who uses the sidewalk. We are dealing with a man who went his way, where the construction was going on. At such a place one must be on the lookout for such things as workmen might drop in their tracks. Even assuming that it was careless on the part of the workman to put the lead on the sidewalk, and that he gave no warning, Mr. Wood's act in stepping backward, without looking, is the chief cause of the injury and contributory negligence which bars recovery. Had he abated, he could have walked onto the sidewalk safely, even if he had not seen the pot of lead, which was out of his way. Instead, he did not look, took two steps sideways and, literally, walked into the pot of hot lead which was out of his way. Much as the court regrets cases where persons suffer painful injuries and cannot be compensated, the court cannot place liability on others for injuries which, through one's own negligence, are self-inflicted." — (South-West Builder and Contractor).

SUB-CONTRACTOR IS SOLELY LIABLE FOR INJURY TO HIS MEN

Usually sub-contractors are required to furnish compensation insurance for their employees and the principal contractor is not liable for injuries sustained by the workmen

employed by the sub-contractors, says The Constructor.

It was shown in Johnson v. Mortenson, 147 Atl. 705, that a principal contractor took a contract to construct a building. He sublet to a sub-contractor the work of digging excavations and trenches to install the sewer connections. One of the sub-contractor's employees named Pascoal was seriously injured when a trench caved in. Both the principal contractor and the sub-contractor were held liable by the commissioner of the state workmen's compensation laws to pay compensation to the injured workman. The principal contractor sued the sub-contractor to recover the amount of the compensation that he was compelled to pay.

It is interesting to observe that the court held the sub-contractor liable to the principal contractor and said:

"No relation of employer and employee existed between Johnson (principal contractor) and Pascoal (injured employee). . . . Where a guarantor, who has entered into a contract of guaranty at the request of or with the consent of the principal obligor, pays or is compelled to pay his principal's debt, that law raises an implied promise . . . on the part of the principal to reimburse the guarantor and on the payment of the debt the guarantor at once has a right of action against the principal for reimbursement of the amount which he has paid. . . . The same principle dictates that, when one has been required to pay money which another, as between them, was under a primary duty to pay, the former should be enabled to obtain reimbursement. . . . The plaintiff (principal contractor) is entitled to recover from the defendant (sub-contractor) any sums which he has paid."

HARDWOOD LUMBER ASSOCIATION HOLDS ANNUAL MEETING

At the recent annual meeting of the National Hardwood Lumber Association at Toronto, Canada, John I. Shaffer of South Bend, Ind., was elected president.

The report of Secretary-Treasurer L. S. Beale showed the membership to be 1067, a decrease of 11 per cent during the last year. About half the members are manufacturers and the others are engaged in the resale of hardwood lumber.

Despite adverse business for the last year the association has done better than most trade associations. The association now has 59 inspectors, including the chief inspector, in the inspection department.

A total of 117,987,800 ft. of lumber was inspected last year, 63,347,300 ft. less than during the preceding year.

The revised inspection rules were adopted after proposed changes having to do with worm holes, wane and number of cuttings had been eliminated at the request of the furniture manufacturers.

ANTI-PANIC DOOR INVENTED BY ARCHITECT

Walter E. Kelly, architect of Portland, Ore., has invented and will shortly place on the market an anti-panic bolt for exit door equipment, which is said to surpass the standard brands, both in beauty, simplicity and ease of operation. It is described as simple in application, readily adjusted and positive in action and is especially praised for its ease of operation under adverse circumstances, such as heavy pressure thrown against the door by a panic-stricken audience. The Kelly anti-panic bolt is so designed that a very slight pressure upon the bar will release the bolts under the heaviest strain.

BRING COSTS OF HOMES WITHIN REACH SAYS R. E. EXECUTIVE

That the burden of taxation rests too heavily on real estate was the opinion presented by Leonard J. Reaume, President of the National Association of Real Estate Boards before the Mortgage Bankers Association Convention at Detroit.

"The auto has created additional expense for roads and streets but real estate should be made to bear the total cost of providing highways for vehicles," said Mr. Reaume. Many associations and individuals are studying possible solutions for this problem, and are investigating whether or not the state income tax, sales taxes and miscellaneous city revenues could relieve the tax burden on real estate. Mr. Reaume urged the Mortgage Bankers Association and other national associations by increasing membership and by contributing small sums of money to undertake researches and analyses of home ownership and home building problems in order to achieve a solution of the problem of individual ownership of homes.

"The prices of homes must be brought within the reach of the pocketbook of the great majority of our public," he said. "Statistics show that the average annual earnings in the United States is between two and three thousand dollars. These men cannot afford to put more than \$500 a year into buying a home. We must devise a scheme of mass production of homes to keep costs down to the measure of the average citizen's purse."

"The next few years we will bring new forms of financing longer term mortgages, greater consideration given to moral and financial responsibility and the probable development of new types of life insurance to aid in paying for a home. I would rather lend \$5,000 in two \$250 mortgages on small modest homes sold to families who could afford to pay for them than to lend \$5,000 on a good attractive \$10,000 home sold to a family who would not afford to pay for it."

"In the past we have concentrated our attention principally on the physical assets in making loans—not only on small homes, but on large projects. In making loans on income property, not only should the physical aspects of the structure be considered, but the responsibility of the borrower; the suitability of the project and the control of good management by the lender. Bad management has ruined many good projects."

APPEALLE COURT UPHOLDS BUILDING INSPECTOR

The State Appellate Court (San Francisco) upheld the action of M. C. Woodruff, city building inspector of San Jose, in refusing a building permit to Frank Lima for a combined store and residential structure. Lima, after being refused the permit brought suit against the city.

Last year Lima presented to Woodruff a tentative plan for a combined store and residential structure. Woodruff stated that there was no ordinance preventing such a building in the location. Delaying completion of the plans, Lima did not make definite application for a permit until two or three months later. Meanwhile, a zoning ordinance had been passed which prohibited such a building in that location.

Action was brought by Lima to compel the issuance of a permit, with the result that the court upheld Inspector Woodruff, because Lima's application had not been made in writing.

THE OBSERVER

What He Hears and Sees on His Rounds

Secretary Lamont estimates that fifty billion dollars will be spent on new residential construction in the United States the next 20 years, and in maintenance and repairs of houses. He was discussing plans for a national conference on home building and home ownership which President Hoover has called.

"With recent drops in prices of building material, an ample number of highly skilled building workers available, contractors anxious to obtain work and mortgage money available at reasonable terms," the commerce secretary continued, "conditions now are favorable for home builders who have the resources and intend to build to go ahead. In general, conditions are also good for going ahead with repairs, alternations and improvements."

An average building height of not more than ten stories on a maximum of 40 per cent of the gross land area is the greatest building density which any section of the borough of Manhattan, New York City, can tolerate without exceeding the limitations of the existing street system and the possibilities of transit development, is the conclusion reached by the Regional Plan of New York in a report made public Sept. 22. An ideal apportionment of the ten-story average, the report suggests, would be six-story buildings on three-quarters of the area available, with skyscrapers on the remaining quarter.

Speaking of unemployment in the construction industry very few stop to give a thought to the fact that when there are 1000 building trades mechanics out of work there is in proportion the equivalent in number of contractors who are not doing a thing, many of whom have not had a job this year, while many more have taken a job almost at loss, says the monthly bulletin of the National Association of Building Trades Employers. In many instances contractors have taken work this year with hardly enough to cover their overhead charges and find in the end that they made a contribution to the owners for the favor of being permitted to do the work for them. Yes, there are quite a number of unemployed contractors who are looking and hoping for a change not only to use their own talents profitably but to give employment to the hundreds of their old employees who today are without work.

"The building habits of this country are being changed by the decentralization of our large metropolitan centers," says the monthly digest of the Common Brick Manufacturers Association of America.

"The effect of this will not be noticed until some of the unfavorable features surrounding the building industry are overcome or remedied."

"During the past decade the number of people living in cities rose to 36 million, or more than one-fourth of the country's entire population.

"The rapid rate of increase in our large cities necessitates many of them being entirely rebuilt.

"Land values determine the structure that shall be placed on them and it is not uncommon to tear down old office buildings and replace them with modern structures twenty, forty and sixty stories high.

"This trend also has its influence in residential construction and development. Rapid transit and subway systems bring suburban sections within living distance of our large centers.

"It is no longer necessary to live in congested districts or undesirable living quarters in order to be within close range of one's work. Modern transportation serves a forty-mile radius with such speed and comfort that entirely new cities are springing up rapidly along an ever-widening circle around the large centers of industry.

"There is every indication that an upturn in building construction is not far distant and there is substantiating evidence on all sides to definitely point out the general revival from the psychological depression this country is going through.

"The shipments of brick during the past thirty to sixty days show seasonal increases, but the general volume is somewhat below last year's consumption."

Promotional activities of contractors and paving companies and the over-zealous ambitions of local chambers of commerce in urging street improvements, were criticized at the opening session of the seventeenth annual convention of the International City Managers Association by William J. Locke, secretary-manager of the League of California Municipalities, who declared the special assessment method of financing has been much abused in California.

"The promotional activities of contractors and paving companies whose interests are based solely on the profit to be derived from the work have undoubtedly been answerable for many unwarranted projects.

"The over-zealous ambition of chambers of commerce has also been the moving factor in many cases for much untimely work. The method has been abused to such an extent in some places that remedial laws are certain to be enacted at the next session of the legislature to curb the ambition of self-seeking promoters."

License to construct a system of power projects on the North and South Forks of Battle Creek in Shasta County, is asked of the Federal Power Commission by the Pacific Gas & Electric Company which concern seeks authority to construct a system consisting of the so-called Coleman, South, Inskip and Volta plants, six reservoirs, several canals and eight transmission lines. The output of the power plant would be 20,400 horsepower. The power would be sold in Superior California.

An increase in this year's outlay by the Federal Government for roads and other permanent improvements over the expenditures for 1929, when \$352,436,000 was spent, is predicted by Dr. Leo Wolman in the chapter on "Federal Construction" of his survey entitled "Planning and Control of Public Works," which has been made public by the Committee on Recent Economic Changes.

"The experience of the Federal Government in the past six months," writes Dr. Wolman, "furnishes convincing evidence that the prevailing system of appropriations and expenditures is sufficiently elastic to permit

occasional acceleration in construction operations when haste and expansion are desired by the government. The removal of various barriers to quick action and the increased appropriations for roads and other projects will without doubt raise the total federal expenditures for construction in 1930 considerably above the amounts spent in 1929."

Dr. Wolman's survey was conducted at the request of President Hoover by the National Bureau of Economic Research and the Department of Commerce and is a continuation of the one made by the National Bureau which was made public a year ago by the Committee on Recent Economic Changes.

A series of advertisements by Frederick E. Stiles of Grand Rapids, Mich., head of a firm dealing in builders' supplies, appearing in Sunday issues of the Grand Rapids Herald, have attracted attention. The advertisements, six columns wide and a page deep contain arguments relative to the industrial stability of Grand Rapids and the country as a whole.

Mr. Stiles urges persons who hesitate to purchase goods, or to spend money in any way, because of timidity induced by so-called "hard times," to "buy now" and express their confidence in the inherent soundness of the nation's business structure. He maintains that the present depression is largely psychological. Carl Chapin, Chicago advertising man, in a congratulatory letter to Mr. Stiles, said: "I wish a thousand merchants throughout the country would start selling the United States and their own communities as you have, and preach that passive belief isn't enough; that people have got to do something about it; that buying the things they need is the best way to show belief."

The American Lumberman, trade journal, offered editorial praise to Mr. Stiles, as follows: "These advertisements are an excellent example of the use of printer's ink in restoring confidence in the financial soundness of the United States."

The advertisements have been printed in the Herald each Sunday for the past two months and will probably continue until late in the fall.

According to the September issue of the Monthly Labor Review, issued by the U. S. Department of Labor, a study about 400 agreements of building-trades unions relative to the provisions governing the practice of union members doing outside work, usually referred to as "contracting," shows that this practice is very generally recognized by the building-trades unions as unfair to the legitimate employers, and many collective agreements specifically prohibit contracting or provide for definite control of the conditions under which the individual worker may undertake outside work. Such provisions were included in practically all of the agreements of the carpenters, electrical workers, and painters and in a large number of the agreements of lathers, plasterers, plumbers, roofers, and sheet-metal workers.

The de Florez system of remote manual control by the application of Selsyn motors, by means of which the operator can retain the actual "feel" of the mechanism being operated, is described in bulletin 7520 of the Brown Instrument Co., Philadelphia, Pa.

ALONG THE LINE

Architect Frederick H. Reimers, formerly located in the Franklin Bldg., Oakland, announces the opening of new offices at 233 Post St., San Francisco.

Charles J. McNeley, 57, for many years an electrical engineer on the Panama Canal, died in Nashua, N. H., Sept. 20. McNeley was awarded a medal by President Roosevelt for devotion to duty during construction of the canal.

A. G. Breitwieser, Sr., manager of the Lassen Lumber and Box Company at Susanville, is recovering from cuts and bruises he received when his automobile side-swiped a truck on the

Andrew Moore, 76, retired engineer and former president of the Moore Shipbuilding Company, died at his home in Berkeley, September 24. A daughter, two sisters and two brothers survive.

Edwin J. Symmes, Bakersfield architect, announces he will continue the practice of architecture in the former offices of the firm of Symmes and Cullimore, which firm was recently dissolved. The offices are located at 215 Habersfelde Building, Bakersfield.

Leo O'Hara of Antioch has been appointed city engineer of Walnut Creek, Contra Costa County. Mr. O'Hara succeeds Ross L. Calfee of Richmond who held the position for two years. Walnut Creek has an extensive water and street paving program under way.

Charles F. Van Dame, veteran California lumberman and founder and president of the Richmond and San Rafael Ferry & Transportation Company, died in a San Francisco hospital, last Thursday. Mr. Van Dame recently returned from a trip to Germany, where he was operated upon for an intestinal ailment.

The Tehama County Supervisors, acting on the suggestion of a citizens' committee that the county charter be amended to provide for the creation of the office of county road engineer, have decided to place the proposal on the November ballot for action by the voters. The position would pay \$3600 a year.

Water development, a key factor in California's economic future, is featured in the exhibit of the California State Chamber of Commerce at the Ferry Building, San Francisco. Maps and photographs of mammoth water projects, vital to the prosperity of the State, in conserving the snows of the Sierra Nevada and Rocky mountains for irrigation, hydro-electric power, and domestic use, are on display. These include scenes of the construction of Hetch Hetchy, San Francisco's water and hydro-electric project, which will furnish 400 million gallons of water daily to 4,000,000 people in the San Francisco peninsula, and develop 250,000 hydro-electric horsepower, as well as data on Boulder Dam, depleted by a map of this project, which will supply 1,095,000 acre feet of domestic water per year to Southern California cities.

TRADE NOTES

Taylor Paint Manufacturing Company, formerly located in the Builders' Exchange Bldg., Oakland, announces the removal of its offices to larger quarters at 1000 E. 12th St., that city. The factory is located at 88th Ave. and B St. and branch stores at 5684 San Pablo Ave. and 8801 E. 14th St., Oakland.

The petition seeking dissolution of the E. C. Fisher Lumber Company of Oroville will be held November 4 by Superior Judge H. D. Gregory at Oroville. The company's mill was recently destroyed by fire. All claims against the company have been satisfied, the petition for dissolution states.

J. E. Strain of Marysville, operating under the firm name of Oak Valley Lumber Co., announces dissolution of the business.

The Santa Cruz Portland Cement Company on September 17 ordered a regular dividend of \$1 a share, payable October 1 to stockholders of record September 20.

Meyers & Barnett, carrying a complete line of hardware and implements, has opened quarters at Main and American Sts., Stockton. The quarters were formerly occupied by the Stockton Hardware & Implement Company.

Engdahl Brothers of San Francisco have opened a branch store at 431 Florence street, Redwood City, and will carry a complete line of paints, lacquers, varnishes, enamels and wall paper. The branch will cater to both wholesale and retail trade.

Directors of the Pacific Portland Cement Company have declared the regular quarterly dividend of \$1.62 1/2 per share on the preferred stock. The dividend will be payable October 4 to stockholders of record Sept. 30.

A. S. M. E. ELECTS OFFICERS FOR ENSUING YEAR

Roy V. Wright, managing editor of Railway Age, New York, has been elected president of the American Society of Mechanical Engineers.

Other officers elected are as follows: Vice-presidents, W. A. Janley, chief engineer, Eli Lilly Co., of Indianapolis, Ind.; Thos. R. Weymouth, president of the Oklahoma Natural Gas Corp., of Tulsa, Okla.; and Harvey N. Davis, president of the Stevens Institute of Technology, Hoboken, N. J.

Managers, W. L. Batt, president of the S. K. F. Industries, Inc., New York; H. L. Doolittle, chief designing engineer, Southern California Edison Co., Los Angeles; H. L. Whittemore, Chief, Engineering, Mechanics Section, Bureau of Standards, Washington, D. C.

Representatives, American Engineering Council, W. R. Webster, Bridgeport, Conn.; R. V. Wright, New York; N. Y.; J. N. Van New York, N. Y.; Robert Yarnall, Philadelphia, Pa.; E. N. Trump, Syracuse, N. Y.; B. E. Hull, Houston, Texas; E. O. Eastwood, Seattle, Wash.; W. Trinks, Pittsburgh, Pa.; Warner Seely, Cleveland, O.; and Wm. S. Conant, Washington, D. C.

ENGINEERING SOCIETIES EMPLOYMENT SERVICE

Further information regarding positions listed in this column is obtainable from Newton O. Cook, Room 715, 57 Post Street, San Francisco. (Phone Sutter 1884).

R-3190-S SALES ENGINEER, graduate in civil engineering, not over 30 years old, to develop the sale of steel bars and building materials. Experience must be in construction or sales, preferably both. Apply by letter with details of experience, education, etc., including photo. Salary open. Location, Pacific Coast. Headquarters, San Francisco.

W-499-C-S CIVIL ENGINEER, graduate with experience in the design and construction of sewers and water works to purchase an interest in an engineering business. Some experience in field of experience, salary, etc. Location, Kansas City.

K-297-W-1288-C-S ENGINEER, young, either employed now or recently employed on design of hydraulic equipment particularly centrifugal pumps. Apply by letter giving all details of experience, salary, etc. Location, Middlewest.

R-3309-S ENGINEER, mechanical or electrical, not over 30 years, with 3 to 5 years' experience on hydro-electric plant operation for service and testing work. Must have mechanical skill, agreeable personality and be willing to travel. Salary about \$175 month and expenses in the field. Apply by letter. Headquarters, San Francisco.

R-3220-S ENGINEER, college graduate in mechanical, chemical or mining preferred. Must not be over 35 years and with at least five years' experience designing and estimating industrial plant equipment. Salary \$250-275 month. Permanent. Location, Bay Region, and only local applicants can be considered for interview.

R-3333-S CHEMICAL ENGINEER, graduate, with 1-3 years' experience for research work on development of plant equipment. Excellent opportunity for man with thorough chemical engineering training and with more than average ability. Salary \$150-175 month to start. Apply by letter. Location, Southern California.

STEEL FURNITURE

August shipments of steel-furniture stock goods, as reported to the U. S. Department of Commerce by 34 manufacturers in the "business group," totaled \$1,966,795 as compared with \$1,812,646 in July, \$2,482,594 in August, 1929, \$2,564,638 in August, 1928 and \$2,474,854 in August, 1927. August shipments of shelving, compiled from reports of 16 companies, totaled \$58,797 as compared with \$609,680 in July, \$89,947 in August, 1929, \$836,105 in August, 1928 and \$604,107 in August, 1927.

Real estate market activity for August is indicated by the figure 69.6, according to the index of real estate market activity compiled monthly by the National Association of Real Estate Boards. The index is based upon official reports of the total number of deeds recorded in 63 typical cities throughout the country. Real estate activity for the year 1926 is taken as the base year in computing the monthly figure.

Private Contractors To Build Boulder Dam

Speed all along the line will characterize the construction of Boulder Dam, christened the Hoover Dam by Secretary of the Interior Wilbur in honor of the President.

Just at the time when Secretary Wilbur was driving a silver spike to begin operations on the connecting railway, amid picturesque surroundings, the Commissioner of Reclamation at Washington was authorizing his chief engineer at Denver to appoint fifty engineers, principally civil, and a few electrical and mechanical, for preliminary work on designs and estimates.

The Civil Service Commission is establishing time records in supplying eligibles for these positions. A few weeks after the Commission received the call for the junior engineers, the examination process was completed and the certified eligibles were in the hands of the Commissioner of Reclamation. The higher grades of engineers, for which the call was made later, will be ready for certification in a few weeks more.

Contracts for preliminary construction and development work will be awarded soon, according to a statement made by the Bureau of Reclamation. Contracts for the major features will not be let for a year or more. The Bureau of Reclamation regards it as necessary to emphasize this to correct a general impression that a large construction force is to be organized at once or is already at work.

It is expected that practically all construction work will be let to private contractors. Under this plan the contractors will make the greater number of employments.

This huge engineering task, for which \$155,000,000 expenditure is authorized, has three purposes, namely, reclamation of arid lands, power development, and flood control. Its possible benefit to the Southwestern section is beyond estimation. It is expected that the power generated will be transmitted as far as Los Angeles. It is the biggest thing in the United States since Muscle Shoals, and one of the biggest since the Panama Canal.

CALIFORNIA MUTUAL TO OPEN NEW QUARTERS

Formal opening of the new home of California Mutual Building & Loan Association, at 775 Market Street, San Francisco, has been set for October 23, according to announcement yesterday.

The California Mutual will be the first building and loan association in San Francisco to own its own home, and the fifth on Market Street within a radius of three blocks.

The new structure, which is now rapidly nearing completion will be one of the most artistic buildings on Market Street, consisting of three stories and basement and representing an investment of \$275,000.

Elaborate plans are being made for the dedication of the new building.

Santa Monica Harbor Company, capitalized for \$2,500,000, has filed articles of incorporation with the Secretary of State at Sacramento. The company, organized to construct harbors and promote regattas, will maintain headquarters in Los Angeles. Directors of the company are D. Button of Glendale and E. J. Opsahl, L. H. MacHenry, E. A. Helwig, E. Brown, F. E. Swain and M. Langstaff, all of Los Angeles.

U. OF C. PROFESSOR HEADS FOREST UNIT

Francis X. Schumacher of the Division of Forestry, University of California, has been appointed chief of the section of forest measurements in the Forest Service, according to announcement by R. Y. Stuart, Chief Forester, Washington, D. C. In his new capacity, Mr. Schumacher will face the knotty question of how to measure the productive capacity of the various types of forests of the United States in terms of lumber and other products. He will assume his new duties on October 1.

Mr. Schumacher studied forestry at the University of Michigan and served for a time in the Forest Service in the Intermountain Region. During the World War he was commissioned 1st Lieutenant of the 148th Infantry, 37th Division, was wounded in the Ypres-Lys drive, was decorated with Distinguished Service Cross and Belgian Croix de Guerre, and is now captain of Reserves. Later at the University of California, he carried the study of forest mensuration to the forests of the Pacific States, devising new tests and methods of measurement and crop determination. Published results of his investigations have won him national recognition. By methods he is developing, the Forest Service expects to improve its work in computing the present and future crops of timber and forest products, with reasonable accuracy, for 20, 40 or 100 years ahead. The work has a great deal of bearing on present forest and economic problems.

\$4,000,000 PLYWOOD FIRM IS ORGANIZED

A \$4,000,000 organization for the manufacture and merchandising of plywood with four of the outstanding Pacific Northwest plants in the consolidation, is announced at Tacoma, Wash.

The new firm will be known as the Oregon-Washington Plywood Company and have its headquarters in Portland.

The plants affected are the Portland Manufacturing Company at Portland, Walton Veneer Company at Everett, Tacoma Veneer Company at Tacoma, and Elliott Bay Mill Company at Seattle.

The officers of the new consolidated company are as follows:

Harry T. Nicolai, Portland, president and general manager; Thomas Autzen, Portland, vice-president; C. L. Spencer, Seattle, vice-president; Eslie Q. Walton, Everett, secretary and treasurer.

The local management of the respective plants will be as follows:

Portland Manufacturing Company at Portland, Jens Lingaas, manager; Tacoma Veneer Company at Tacoma, Philip Garland, manager; Walton Veneer Company at Everett, Eslie Q. Walton, manager, and Elliott Bay Mill Company at Seattle, Bruce Clark, manager.

All sales will be handled from the Portland office under the direction of Fred W. Kienzie, sales manager.

Total assets are approximately \$4,000,000. There will be no public financing.

A lack of purchasing power by wage workers is blamed in the American Federation of Labor's weekly news bulletin, for the industrial depression.

"Theorists may quibble over the distinction between overproduction and underconsumption," the bulletin says, "but no practical person denies wage workers have not the money to buy."

The publication adds that if the depression would be ended, principles of high wage and shorter hours must be applied.

GOOD PAINTING PROTECTS STEEL FRAMES

The value of the use of good paint is best emphasized by results obtained from examination of a building built four years ago, says David N. Oltarsh, consulting engineer of New York City.

A very tall structure of fireproof construction, the 40-story Court and Montague Building in Brooklyn, had its columns and girders exposed for an alteration after standing only four years and it was found that all the paint had come off and the steel had begun to show corrosion. There is only one way to account for this condition, and that is that the specifications were not lived up to and the general contractor, to save money, permitted the structural steel contractor to work in his own way.

As an example of good paint applied I can mention the Prudence Building, at 43rd St. and Madison Ave., New York City. The present Prudence Building is a combination of the old Charles Building and the new structure to the south of its corner building. The old Charles Building, at the southeast corner of Madison Ave. and 43rd St., was built 30 years ago. Six years ago, to alter the building and make the new addition, it became necessary to strip the columns. The writer, as engineer for the Prudence company, found that paint on the columns and the structural steel in such good condition that it looked as if the paint had been put on the day before.

It is my opinion that all fireproof buildings should be supervised by the architect or engineer in order to assure proper construction and guarantee the results sought for by the design. One cannot obtain good results when the dollar mark is the big factor and the builder is permitted to do as he pleases in order to save money here and there. It is such little matters, not thought of at the time, which shorten the lifetime of a building.

CALIFORNIA WATER SERVICE COMPANY EARNINGS

Increasing profits of the California Water Service Company, which operates water systems in Superior and Central California are shown by its financial report for the year ending August 31, 1930.

The company's gross revenues increased from \$2,092,127 for the previous year to \$2,156,850 for the past twelve months.

Operating expenses, maintenance and taxes other than federal income tax, totaled \$1,053,985 for the year ended August 31, 1930, against \$1,069,104 for the preceding twelve months.

Gross corporate income amounted to \$1,142,360 for the period ended August 31, 1930, as compared with \$1,035,913 for the year ended August 31, 1929.

LOS ANGELES TO VOTE ON POWER AND SEWER BONDS

The city council of Los Angeles has set November 4 to vote on the proposal to issue bonds of \$13,300,000 for power development. The greater portion of the money would be used to augment and improve power facilities in the city's Owens valley water and power system. Survey, and acquisition of a right of way for a power transmission line from Boulder canyon dam to Los Angeles.

A separate proposal on the November ballot will provide for the issuance of \$6,000,000 in bonds to finance construction of sewers in various sections of the city.

Building News Section

APARTMENTS

Preparing Working Drawings.
APARTMENTS Cost, \$250,000
SAN MATEO, San Mateo Co., Calif.

Location Withheld.
Six-story and basement class C steel frame, brick and concrete apts. (21 2- 3- 4- 5- 6- 7- and 8-room apts.)

Owner—Name Withheld.
Architect—Willis Lowe, 354 Hobart St., Oakland.

Bids will be taken in about 30 days.

Preparing Working Drawings.
APARTMENTS Cost, \$60,000
SAN FRANCISCO, 45th Avenue and Geary St.

Three-story and basement frame and stucco apts. (15 3-room apts.)
Owner—Name Withheld.
Plans by Lawrence Ebbets, 320 Fulton Street.

Will have steam heating system, tile roof and elevator.

Plans Being Prepared.
APARTMENTS Cost, \$20,000
EMERYVILLE, Alameda Co., Cal.
One-story and basement frame and stucco apts. (six 4-room apts.; Spanish type).

Owner—Mrs. O. H. Reese.
Architect—George Ellinger, 1723 Webster St., Oakland.

Plans will be ready for bids in about two weeks.

Plans To Be Prepared.
APARTMENTS Cost, \$—
REDWOOD CITY, San Mateo Co., Cal.
Main St. bounded by Walnut, Hillton, Maple and Stambaugh Sts. (200 ft. frontage).

Three-story frame and stucco apts. (36 apts. and garage).
Owner—Withheld.
Architect—Not Given.
Agent—Dave L. Walter, 2198 Broadway, Redwood City.

Segregated Bids To Be Taken In One Week.
APARTMENTS Cost, \$10,000
BELMONT, San Mateo Co., Cal.
Two-story and basement frame and stucco apartments.
Owner—Mrs. Talbee.
Plans by Carl Schuetz, 1125 The Highway, Redwood City.

Segregated Bids To Be Taken In One Week.
APARTMENTS Cost, \$40,000
SAN MATEO, San Mateo Co., Calif.
Bayview Heights.
Two-story and basement frame and stucco apartments.
Owner—E. I. Warren, Los Angeles.
Plans by Carl Schuetz, 1125 The Highway, Redwood City.

Preparing Working Drawings.
APARTMENTS Cost, \$200,000
LOS ANGELES, Cal. Ninth and Gramercy Place.
Eight-story Class A reinforced concrete apartments (tile and composition roof).
Owner—Ben Kagan, 311½ S. Spring St., Los Angeles.
Architect—Clarence J. Smale, 5369 Wilshire Blvd., Los Angeles.

Construction Indefinitely Postponed.
APARTMENTS Cost, \$16,000
SAN FRANCISCO, Cabrillo St. E
Thirty-second Ave.

Two-story frame and stucco apartments (four 3-room apts.)

Owner—Mrs. Bluet.
Architect—Richard Irvine, Call Bldg., San Francisco.

Bids To Be Taken In One Week.
APARTMENTS Cost, \$150,000
OAKLAND, Alameda Co., Cal. Crescent Ave. near Santa Clara.

Three-story frame and stucco apartments with Class C concrete garage.

Owner and Builder—R. E. Mayer, 1129 McKinley St., Oakland.
Architect—Douglas Stone, Great Western Power Bldg., Oakland.

Plans Being Figured.
APARTMENTS Cost, \$15,000
BURLINGAME, San Mateo Co., Cal.
Two-story frame and stucco apartments (2 4-room apts.)
Owner—Edward Stack.
Architect—Edwards & Schary, 605 Market St., San Francisco.

Contract Awarded.
APARTMENTS Cost, \$25,000
SACRAMENTO, Sacramento Co., Cal. No. 1416-22 Eighteenth St.
Three-story frame and stucco apartments (24 rooms).
Owner—A. C. Anderson, 1825 O St., Sacramento.
Architect—None.
Contractor—Jos. Pedone, 914 S St., Sacramento.

Plans Being Figured.
APARTMENTS Cost, \$100,000
SAN FRANCISCO, W West Portal Ave. S 15th Ave.
Six-story and basement and sub-basement steel frame and concrete Class C apartments (24 3-rm apts.)
Owner—Withheld.
Engineer—John G. Little, 251 Kearny St., San Francisco.
Steam heating system, composition roofing.
Laughlin Constr. Co., Mills Bldg., is figuring the plans.

To Be Done By Day's Work By Owner
APARTMENTS Cost, \$35,000
SACRAMENTO, Sacramento Co., Cal. No. 2204 H Street.
Three-story frame and stucco apartments (32 rooms).
Owner and Builder—A. E. Hammond, 1604 V St., Sacramento.
Architect—None.

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Plans Being Completed.
APARTMENTS Cost, \$50,000
SAN FRANCISCO, SW Beach and Scott Streets.
Three-story and basement frame and stucco apartments (12 3-rm apts.)
Owner and Builder—Thomas Quistad, 2100 North Point St., San Francisco.
Plans by Lawrence Ebbets, 320 Fulton St., San Francisco.
Modernistic style, interior and exterior. Sub-bids will be taken in one week.

To Be Done By Day's Work By Owner
APARTMENTS Cost, \$42,000
ALAMEDA, Alameda Co., Cal. No. 729 Central Avenue.
Three-story frame and stucco apartments (42 rooms).
Owner and Builder—J. M. Kinley, 2120 Delaware St., Berkeley.
Architect—Thos. Keeman, 815 Syndicate Bldg., Oakland.

Planned.
APARTMENTS Cost, \$500,000
LOS ANGELES, Cal. Tenth and Bonnie Brae Sts.
Twelve-story and basement Class A reinforced concrete apartments (118 apts.)
Owner—C. C. Tatum Building Income Trust, Fidelity Bldg., Los Angeles
Architect—Eng. Dept. of Owner.

BONDS

SANTA CRUZ, Santa Cruz Co. Cal. Election will be held October 8 in Laguna School District to vote bonds of \$8,000 to finance school improvements. Trustees of the district are: Thomas E. Majors, John A. Mazzei and Battista Lorenzi.

BISBEE, Ariz.—Cochise county supervisors sold \$300,000 courthouse bond issue to Bosworth, Chanute, Loughridge & Co., Denver, for a premium of \$1001. Will be four-story, fireproof structure with copper roof. Roy Place, architect, 79 N. Stone Ave., Tucson.

PIEDMONT, Alameda Co., Cal.—Board of Education contemplates bond issue to finance erection of new schools and additions and alterations to standing structures.

CHURCHES

Preliminary Plans Being Prepared.
CHURCH Cost, \$40,000
SAN MATEO, San Mateo Co., Cal. San Mateo Drive.
One-story frame and stucco church.
Owner—First Congregational Church.
Architect—Kent & Hass, 525 Market St., San Francisco.

Drive For Funds Under Way
CHURCH Cost, \$25,000
ROSEVILLE, Placer Co., Cal. Jones and Main Sts.
New church (75x140-ft.; to seat 220).
Owner—Methodist Episcopal Church, H. W. O'Kane, pastor, 109 Washington St., Roseville.
Architect—Charles Deane, California State Life Bldg., Sacramento.
Will contain recreational hall, stage, kitchen and pastor's study.

Contract Awarded.
CHURCH Cost, \$650,000
LOS ANGELES, Cal. Sixth and Commonwealth Sts.
Class A reinforced concrete and steel church, chapel and educational building.

Owner—First Congregational Church of Los Angeles.

Architect—Allison & Allison, California Reserve Bldg., Los Angeles
Contractor—Richards-Neustadt Construction Co., W. M. Garland Bldg. Los Angeles.

Completing Plans.
CHURCH Cost, \$75,000
LOS ANGELES, Cal. SE Third St. and Rowan Ave.
Reinforced concrete church with tile roof.

Owner—Roman Catholic Bishop of Los Angeles and San Diego.
Architect—Lester G. Scherer, 1510 N. Vermont Ave., Los Angeles.

Contract Awarded.
ORGAN Cont. Price, \$7350
SAN FRANCISCO. Saint Patrick's Church, Mission St., bet. 3rd and 4th Streets.

Installation of organ in present church
Owner—Roman Catholic Archbishop, 1100 Franklin St., San Francisco.
Architect—Arnold Constable, 580 Market St., San Francisco.

Contractor—Home Mfg. Co., 552 Brannan St., San Francisco.

Organ contract has been awarded to Skinner Organ Co.

Contract Awarded.
CHURCH Cont. Price, \$29,500
NORTH OAKLAND, Alameda Co.
Two-story frame and brick veneer church (auditorium to seat 570).

Owner—Colored Baptist Church.
Architect—Charles W. McCall, 1404 Franklin St., Oakland.

Contractor—C. H. Lawrence, 5321 Lawson St., Oakland.

Others who submitted figures were Harry Knight, Oakland; George Martin, Oakland and Robert D. Taylor.

FACTORIES AND WAREHOUSES

Contract Awarded.
STATION Cont. price, \$13,166
UKIAH, Mendocino Co., Cal. Three and one-half miles north of Ukiah.

Highway maintenance station, comprising superintendent's cottage, truck shed, office and store house, loading platform, gasoline and oil house, septic tank, single wood shed, station sign and yard trestle.
Owner—State of California (Highway Commission).

Architect—State Department of Architecture, State Office Bldg., Sacramento.

Contractor—Louis Halvorsen, 123 Dutton Ave., Santa Rosa.

Bids To Be Taken In One Week.
WAREHOUSE Cost, approx. \$10,000
REDWOOD CITY, San Mateo Co., Cal. 1601 El Camino Real.
One-story hollow tile offices and warehouse.

Owner—Sudden Lumber Company.
Architect—Eng. Dept. of Owner, Quinby and Evans Sts., San Francisco.

SANTA CRUZ, Santa Clara Co., Cal.—C. M. Crow, Oakland, has been authorized by city council to establish laundry at 344 Sequel Avenue. New laundry equipment will be installed.

Plans Being Figured.
WAREHOUSE Cost, \$275,000
LOS ANGELES, Cal. No. 360 E. Second Street.
Six-story Class A steel frame and

reinforced concrete laboratory and warehouse (102x150 feet.)

Owner—Brunwig Drug Co., 501 N. Main St., Los Angeles.
Architect—Albert C. Martin, Higgins Bldg., Los Angeles.

Preparing Working Drawings.
FACTORY Cost, \$70,000
OAKLAND, Alameda Co., Cal. Eighty-first Ave. near 14th St.
One-story reinforced concrete factory.
Owner—Blue Bird Potato Chips, Inc., 68th Ave. and Beck St., Oakland.
Architect—Chas. W. McCall, 1404 Franklin St., Oakland.

Sub-Contracts Awarded.
SERVICE BLDG. Cost, \$50,000
SAN FRANCISCO. SW Eleventh and Howard Streets.

One-story Class C tire service building
Owner—Goodrich Silvertown, Inc., 1660 Pine St., San Francisco.

Plans by Eng. Dept. of Owner.

Contractor—Lindgren & Swinerton, Inc., 225 Bush St., San Francisco.

Reinforcing Steel—W. S. Wetenhall Company.

Brick Work—Wm. A. Rainey & Son.
Plastering—MacGruber & Co.
As previously reported, Summerbell wood roof trusses awarded to Summerbell Truss Co., Room 402, 354 Hobart St., Oakland.

Award made for 8 7/4" wood roof trusses.

Painting Contract Awarded.
LABORATORY Cont. price, \$65,000
SAN FRANCISCO. N. Fell Street bet. Van Ness Ave. and Polk St.

Three-story and basement reinforced concrete and brick offices and laboratory.

Owner—The Viavi Co., Van Ness Ave. and Market St.

Architect—Willis Polk & Co., 277 Pine Street.

Contractor—Barrett & Hilp, 918 Harrison Street.

Painting—A. A. Zelinsky, 4420 California St., \$1,865.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$16,000
SAN FRANCISCO. SW Front St. and Jackson St.

Alterations and additions to warehouse.

Owner—Mrs. C. H. Baker, 2048 Market Street.

Engineer—L. S. Rosener, 233 Sansome Street.

Contractor—I. W. Coburn, 2048 Market Street.

Concrete—Adam Arras Co., 185 Stevenson St.

Steel—Western Iron Works, 141 Beale Street.

Sub-bids are being taken on other portions of the work.

Sub-Contracts Awarded.
REHABILITATION Cost, \$30,000
SAN FRANCISCO. Eighteenth and Shotwell Sts.

Rehabilitation of warehouse.
Owner—Pacific Gas & Electric Co., 245 Market St., San Francisco.

Plans by Eng. Dept. of Owner.

Contractor—H. H. Larsen, 64 South Park, San Francisco.

Glass—W. P. Fuller & Co., 301 Mission St., San Francisco.

Sheet Metal—Gulfof Cornice Works, 1234 Howard St., San Francisco.

Painting—Aristo Painting Co., 473 Bryant St., San Francisco.

Tile—Art Tile & Mantel Co., 221 Oak St., San Francisco.

Mill Work—C. E. Reinhardt, 535 10th St., San Francisco.

Reinforcing Steel—W. S. Wetenhall, 11th and Wisconsin Sts., S. F.

Finish Hardware—Marshall Newell Co., Spear and Mission Sts., S. F.

Steel Rolling Doors—Kennerson Mfg. Co., 361 Brannan St., S. F.

ROSEVILLE, Placer Co., Cal.—Until October 13, 2 P. M., bids will be received by C. H. Whitmore, district engineer, District 111, State Highway Commission, 502 State Office Building, Sacramento, to erect truck shed and gasoline and oil house at Roseville. Plans obtainable from engineer on deposit of \$25, returnable.

Plans being Figured.
OFFICES Cost, \$15,000
MERCED, Merced Co., Cal. Fifteenth and M Streets.

One-story reinforced concrete offices and warehouse (50x110-ft.)

Owner—San Joaquin Light & Power Corp., Power Bldg., Fresno.

Plans by Eng. Dept. of Owner.

Torofume roofing is specified; loading crane will be installed.

Additional Sub-Contracts Awarded.
ASSEMBLY PLANT Cost, \$3,500,000
RICHMOND, Contra Costa Co., Cal.

Group of steel frame and brick buildings (1-story assembly plant, 300,000 sq. ft.; 2- or 3-story wharf building and receiving building).

Owner—Ford Motor Car Co., Detroit.

Architect & Engineers—Albert Kahn, Inc., Marquette Bldg., Detroit.

Chief Engineer—(Ford Motor Car Co.) R. B. Brown, Detroit.

Contractor—Clinton Const. Co., 923 Folsom St., San Francisco.

Sprinkler System—Fire Protection Products Co., 1101 16th St., S. F.

Supply Bricks—Richmond Pressed Brick Co., Richmond.

Spur Tracks—United Commercial Co., 134 Stewart St., San Francisco.

As previously reported, ornamental iron metal toilet partitions and hollow metal awarded to Michel & Pfeffer Iron Works, Harrison and 10th Sts., San Francisco; brick work to H. Johnson, 1208 Browning Blvd., Los Angeles; wood block floors, dampproofing and waterproofing to Bender Roofing Co., 18th and Bryant Sts., San Francisco; asphalt coating for concrete piles to Conrad Sovig, 248 Oak St., San Francisco; plant boiler to Puget Sound Machinery Depot, 322 1st St., Seattle; lumber to Tilden Lumber Co., foot of 7th St., Oakland; iron and steel to Herriek Iron Wks., 18th and Campbell Sts., Oakland (involves 4000 tons); heating, ventilating and plumbing to F. W. Snook Co., 596 Clay St., San Francisco; electric work to Alta Elec. Co., Inc., 935 Howard St., San Francisco.

Plans Being Figured—Bids Close Oct. 13, 10 A. M.

SHOP BLDG. Cost, \$6000
BERKELEY, Alameda Co., Cal. Allston Way and West Street.

Shop building for Corporation Yard.

Owner—City of Berkeley, Florence E. Turner, city clerk.

Architect—Not Given.

Bids will be considered for a general contract and on the segregated basis plan.

Certified check 10% payable to city required with bid. Plans obtainable from Department of Public Works, City Hall, on deposit of \$10, returnable.

Contract Awarded.

EXTENSION Cont. price, \$18,962
SAN FRANCISCO. Mills Field Municipal Airport.

Extensions to hangars under Contract No. 19.

Owner—City and County of San Francisco.

Engineer—Bureau of Engineering, 3rd floor, City Hall.

Contractor—Clinton-Stephenson Co., Monadnock Bldg.

NOTE: Bid of Vogt and Davidson, 163 Stevenson St., low at \$18,847, was rejected due to a condition attached to piling bid. The project involves 2,000 lin. ft. of piling.

Contract Awarded.
ADDITION Cost, \$16,000
OAKLAND, Alameda Co., Cal. 9000 B Street.
 Addition to warehouse.
 Owner—Hazel Atha Glass Co., 9000 B St., Oakland.
 Architect—None.
 Contractor—Larsen & Larsen & Judson Pacific Co., foot of Park Ave., Emeryville.

Bids Rejected.
SHOP, ETC. Cost, \$—
IONE, Amador Co., Cal. Preston State School of Industry.
 One-story balcony brick shop building with steel roof construction and slate roof, floor area 3,000 sq ft., and two-story and part basement brick and frame superintendent's cottage (10 rooms).

Owner—State of California.
 Architect—State Department of Public Works, Division of Architecture, Public Works Building, Sacramento.

New bids will be called on the residence. Shop will be constructed by day's work by owner. Lowest bid on general work was submitted by Lindgren & Swinerton, Inc., 225 Bush St., San Francisco, at \$36,499; on electrical work, Collins Electric Co., Stockton, at \$1,931; on plumbing, heating and ventilating, L. H. Dullman, Sacramento, at \$9,935; on mechanical work, Latourrette-Fical Co., Sacramento, at \$11,950.

Structural Steel Contract Awarded.
ROCK CRUSHER Cost, \$60,000
 (steel and concrete work)
LIVERMORE, Alameda Co., Cal.
 Additional work at rock crusher plant.
 Owner—Kaiser Paving Company.
 Engineer—L. H. Nishkian, 525 Market St., San Francisco.
Structural Steel—Western Iron Works, 141 Beale St., San Francisco.

Plans Being Completed.
WAREHOUSE Const. Approx. \$150,000
SAN FRANCISCO, Sansome and Valjejo Streets.

Three-story reinforced concrete warehouse.
 Owner—Poultry Producers of Central California, 700 Front St., San Francisco.
 Architect—H. C. Baumann, 251 Kearny St., San Francisco.

Bids will be taken within one week

Lumber and Concrete Contracts

CLEANING PLANT Cost, \$14,000
BURLINGAME, San Mateo Co., Cal.
 Howard Avenue.

One-story reinforced concrete cleaning plant.

Owner—Edmond Bourne, 1211 Burlingame Ave., Burlingame.

Plans by Grimes & Schoening, Balovich Bldg., San Mateo.

Contractor—G. W. Williams Co., Ltd., 1401 Broadway, Burlingame.

Lumber—Winsom Lumber Co., 1000 Broadway, Burlingame.

Concrete—G. Adolphson, 706 N. Claremont St., San Mateo.

Sub-Contracts Awarded.
STABLES Cost, \$43,457
WOODSIDE, San Mateo Co., Cal.

Stables (frame construction).
 Owner—John Rosekrans.

Architect—Dakewell and Weihe, 251 Kearny St., San Francisco.

Contractor—Charles Stockholm, Russ Bldg., San Francisco.

Lumber—J. H. McCallum, 748 Bryant St., San Francisco.

Mill Work—Pacific Mfg. Co., Monadnock Bldg., San Francisco.

Steel Sash—Michel and Pfeffer Iron Works, Harrison and 10th Streets, San Francisco.

Segregated Bids Being Taken.
INDUSTRIAL BLDG. Cost, \$—
SAN FRANCISCO. SE Russ St. and Howard St.

Three-story reinforced concrete industrial building.

Owner—Eng-Skell Co., 208 Mission St. Engineer—A. C. Griewank, 208 Mission Street.

Plans may be figured by contractors at the office of Mr. Griewank.

As previously reported, pile driving awarded to M. B. McGowan, Call Bldg.

Additional Sub-Contracts Awarded.
SERVICE BLDG. Cost, \$50,000
SAN FRANCISCO. SW Eleventh and Howard Streets.

One-story class C service building.

Owner—Goodrich Seivertown Inc., 1660 Pine Street.

Plans by Eng. Dept. of Owner.
 Contractor—Lindgren and Swinerton, Inc., 225 Bush St.

Plumbing—E. Sugarman, 3624 Geary Street.

Electric Wiring—Atlas Electric & Engineering Corp., 343 4th St.

As previously reported, reinforcing steel awarded to W. S. Wetenhall Co.; brick work to Wm. A. Rainey & Son; plastering to MacGruber & Co.; Summerbell wood roof trusses awarded to Summerbell Truss Co., room 402, 354 Hobart St., Oakland.

Award made for eight 74-ft. wood roof trusses.

Bids To Be Taken In One Week.
CREAMERY Cost, \$—
SAN FRANCISCO. 18th and York Sts. (137-6x200-ft.)

Two-story and basement class B concrete creamery (foundation laid for two additional stories to be added later).

Owner—Challenge Creamery and Buttermilk Assn., 307 Montgomery St.

Architect—Dodge Riedy, Pacific Bldg.

Plans Being Prepared.
FACTORY Cost, \$200,000
OAKLAND, Alameda Co., Cal. 102nd Avenue.

Factory (type of construction not stated).

Owner—Hammer Bray Co., 26th Ave. and E-12th St., Oakland.

Architect—Clay N. Burrell, American Bank Bldg., Oakland.

More definite information will be given shortly.

MARIPOSA COUNTY, Calif.—Until October 14, 2 P. M., bids will be received by E. E. Wallace, district engineer, State Highway Commission, P. O. Box 1253, Fresno, to erect maintenance station in Mariposa county at Bear Creek about nine miles easterly from Mariposa, to consist of a superintendent's cottage, truck shed, blacksmith shop, gasoline and oil house, septic tank, combination wood shed and garage, station sign and sewer line. Plans obtainable from engineer on deposit of \$25, returnable.

GARAGES AND SERVICE STATIONS

Plans Being Figured.
GARAGE Cost, \$165,000
SEATTLE, Wash. Sixth Ave. bet University and Union Sts.

Five-story and basement reinforced concrete garage, depth 120-ft., frontage 116-ft. with rear frontage 141-ft. (spiral ramp type).

Owner—Public Garage, Inc.

Architect—Schack and Young, Central Bldg., Seattle.

Contract Awarded.
GARAGE Cost, \$15,000
PETALUMA, Sonoma Co., Cal.

One-story reinforced concrete garage.

Owner—Westertree Bros., Petaluma.

Architect—W. H. Weeks, 111 Sutter St., San Francisco.

Contractor—Albert Staton, 3706 Grand Ave., Oakland.

Glass And Glazing Contract Awarded.
SERVICE STATION Cost, \$—
HERKLEY, Alameda Co., Cal.

Steel service station.

Owner—Standard Oil Co., 225 Bush St., San Francisco.

Plans by Eng. Dept. of Owner.

Contractor—Lindgren and Swinerton, Inc., 225 Bush St., San Francisco.

Glass and Glazing—Arthur Goep, Inc., 70 11th St., San Francisco.

GOVERNMENT WORK AND SUPPLIES

ELK HILL, Kern Co., Cal.—Scott Bros. Well Drilling Co., Los Angeles, awarded contract by the bureau of yards and docks, navy department, Washington, at \$85,000 for repairs to shut-in wells at the Elk Hills oil fields.

Plans Being Completed.
PAINT SHOP Cost, \$75,000
BREMERTON, Wash. Navy Yard.

One-story steel frame paint shop.

Owner—U. S. Government.

Architect—Bureau of Yards & Docks, Navy Dept., Washington, D. C.

The project will involve an expenditure of \$125,000, including foundation work, heating and sprinkling systems, which units will be undertaken by the shop forces of the Navy Yard.

PALO ALTO, Santa Clara Co., Cal.—Until October 20, 11 A. M., under Contract No. 95, bids will be received by William H. Radcliffe, supervising superintendent of construction, U. S. Veterans' Hospital, Palo Alto, to furnish 1 o. b. shipping point:

One (1) 1250-gallon per hour Continuous Cold Process Lime-Soda Water Softener complete; "International Filter Company Type 'J'"; Graver Company type "K" or equal, consisting of a Ground Operated Chemical Feed Tank, complete with motor, reducing gear agitator, chemical feed pump, etc.

A Steel or "Standard California Red Wood Softener Settling Tank," approximately 8-feet in diameter by 17-feet high, with proper appurtenances including centrally located down take tube, automatic water control, spider sludge removal system, a uniform collecting draw-off system, inter-connecting piping with the filter and chemical feed equipment.

If steel, the tank is to be in accordance with A. S. M. E. Specifications. A vertical pressure type sand-filter not less than 30 inches in diameter. In accordance with the American Water Works Association (pages 735-AWWA Handbook) together with all necessary appurtenances for operating Pressure Filters.

As an additional feature, a chain-drive chemical feed pump will be included for feeding Sodium Aluminate. Current available in 220-volt, 3-phase, 60 cycles.

The water to be softened is received from the Spring Valley Water Company and a constant rate may be obtained. The total hardness of this water is approximately 250 p.p.m., sulfate 35 p.p.m., bicarbonates 270 p.p.m.; and is used for boilers. A water testing cabinet and directions for testing will be furnished with the equipment. Further information obtainable from above.

MARYSVILLE, Yuba Co., Cal.—Hemstreet & Bell, Marysville, at 28 cu yd. submitted low bid to U. S. Engineer Office, Sacramento, to construct levee 8700 lin. ft. in length on the Feather river.

PANAMA CANAL—Until October 15, 10:30 A. M., under Schedule No. 2394, bids will be received by Purchasing Officer, Panama Canal, Washington, D. C., to furnish and deliver among other supplies:

- (1) Rock Crushing Plant;
- (2) Power Drag Scraper;
- (3) Trucks;
- (4) School Busses;
- (5) Grinding Machines;
- (6) Wheelbarrows.

Further information obtainable from Assistant Purchasing Agent, Fort Mason, San Francisco.

Bids Opened.

ADDITION Cost, \$15,000
SAN FRANCISCO. Letterman General Hospital.

One-story and basement reinforced concrete addition to nurses' dormitory.

Owner—U. S. Government.
Architect—Constructing Quartermaster, Fort Mason.

General Work

Western Hardwood Floor Co. 21	
Capistrano St.	\$12,217
F. B. Peak	13,124
F. L. Hansen	13,500
Young & Horstmeier	13,740
C. C. W. Haun	13,817
F. J. Reilly	13,983
J. H. Johnson	13,997
Joel Johnson	14,250
Strehlow & La Voie	14,358
Mission Concrete Co.	14,400
H. Peterson	14,498
Thollander Const. Co.	14,950
Anderson & Ringrose	15,000
Fred. H. Seals	15,064
Wm. Norton	15,306
Meyer Bros.	15,450
McCarthy & Johanss	15,747
Sorensen & Hagmark	15,900
Spivock & Spivock	15,950
J. B. Hart	16,900
L. M. Bruce	19,980

Following are low bidders on plumbing, heating and electric wiring.

Plumbing

McCarthy & Johanss, 748 14th St., \$500

Heating

McCarthy & Johanss, 748 14th St., \$748
A. G. Atwood, 3623 18th St., \$748

Electric Wiring

Western Hardwood Floor Co., 21
Capistrano St., \$525

Complete list of bids will be published in a few days.

WASHINGTON, D. C.—Bids are being received by Bureau of Supplies & Accounts, Navy Department, Washington, D. C., to furnish and deliver miscellaneous supplies and equipment as noted in the following schedules, further information being available from the Navy Department Officer, 100 Harrison St., San Francisco:
San Francisco, 2 platen printing presses, sch. 41698.

Bids Open Oct. 14

Puget Sound, 3 searchlights and spare parts; sch. 4159.

Western yards, malleable-iron pipe fittings, sch. 4172.

Puget Sound, steam and water pipe fittings, sch. 4180.

Eastern and Western yards, approximately 2635 squirt cans, sch. 4174.

Puget Sound, 1 photographic copying machine, sch. 4127.

Western yards, paint, varnish, and other brushes, sch. 4182.

Mare Island, 400 fabric springs, sch. 4183.

San Francisco, 1 motor-driven drill press, sch. 4194.

San Diego, 912 deck scrubbing brushes, sch. 4179.

San Diego, 84 oil cups; Mare Island, 225 do; Puget Sound, 102 do, sch. 4178.

Puget Sound, composition pipe fittings, sch. 4173.

Western yards, composition pipe fittings, sch. 4171.

Complete Bid Listing.

ADDITION Cost, \$15,000
SAN FRANCISCO. Letterman General Hospital.
One-story and basement reinforced concrete addition to nurses' dormitory.

Owner—U. S. Government.
Architect—Constructing Quartermaster, Fort Mason.

General Work

Western Hardwood Floor Co. 21	
Capistrano St.	\$12,217
F. B. Peak	13,124
F. L. Hansen	13,500
Young & Horstmeier	13,740
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Mission Concrete Co.	14,400
H. Peterson	14,498
Thollander Const. Co.	14,950
Anderson & Ringrose	15,000
Fred. H. Field	15,064
Wm. Norton	15,306
Meyer Bros.	15,450
McCarthy & Johanss	15,747
Sorensen & Hagmark	15,900
Jacks & Irvine	15,905
Spivock & Spivock	15,950
J. B. Hart	16,900
L. M. Bruce	19,980

Plumbing, Heating & Electrical Work
(1) plumbing; (2) heating; (3) electrical work.

Wm. Martin (1) \$904; (2) \$830; (3) \$780.

Atlas Electric & Eng. Co., (1) \$945; (2) \$854.

Western Hardwood Floor Co., (1) \$1,088; (2) \$750; (3) \$525.

Thomas Skelly (1) \$1,012; (2) \$803; (3) \$780.

Higgins & Kraus (1) \$1,100; (2) \$1,430; (3) \$780.

Wm. Wara (1) \$1,178; (2) \$963; (3) \$780.

Scott Co. (1) \$1,198; (2) \$854; (3) \$567.

Fred. Snook (1) \$1,060; (2) \$1,040; (3) \$780.

McCarthy & Johanss (1) \$500; (2) \$748; (3) \$605.

Thollander Const. Co. (1) \$1,222; (2) \$892; (3) \$564.

Thomas R. Smith (2) \$850.
C. Peterson Co. (2) \$935.

A. G. Atwood (2) \$748.
George Rehm (2) \$830.

James A. Nelson (1) \$906; (2) \$822.

W. B. Baker (3) \$537.
G. H. Armstrong (3) \$605.

Erayer Elec. Co. (3) \$600.
Strom & Smith Elec. Co. (3) \$570.

Superior Electric Co. (3) \$555.
Bids held under advisement.

Plans Being Figured—Bids Close
October 20, 11 A. M.

GARAGES Cost, \$—
SAN FERNANDO. Los Angeles Co., Cal. U. S. Veterans' Hospital Site.

Two four-car garages and one 3-car garage.

Owner—United States Government.
Architect—Supervising Superintendent of Constr., Veterans' Hospital, Palo Alto.

This work consists of excavating, concrete floors, wall construction consisting of either 6" reinforced concrete 8" concrete blocks, or 6" hollow tile, carpentry, millwork, hardware, built-up roofing, flashing, painting, glazing, stuccoing and finished grading. Plans obtainable from Supervising Superintendent of Construction at Palo Alto.

SAN FRANCISCO—Until October 7, 10 A. M., under Schedule No. 1928-31, 82, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver 51 water closet tanks, white enamel iron, for low down tanks, conforming to I. L. Tank, Page 31, General Specification for Plumbing Fixtures for Treasury, War and Navy Depts.

SACRAMENTO, Cal.—Until Oct. 9, 3 P. M., under Order No. 2476-1705, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver 4,000 lbs. black-smith coal, in 100-lb. sacks. Further information obtainable from above.

RIO VISTA, Solano Co., Cal.—Until October 10, 3 P. M., under Circular Proposal No. 31-87, Specifications 2467-1708, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, to furnish, deliver and place rip-rap stone along the Sacramento river in the vicinity of Rio Vista. Specifications obtainable from above.

KEYPORT, Wash.—Until October 29, 11 A. M., bids will be received by the Bureau of Yards and Docks, Navy Department, Washington, D. C., under Specification No. 6302, to furnish and install dial type telephone, two central office equipments (complete), storage batteries, rectifiers and power connections and changing of two existing telephone systems from manual to automatic operations at the naval ammunition depot, Puget Sound, Washington, and Pacific Coast torpedo station, Keyport, Wash. Deposit of \$10 required for plans, obtainable from Bureau.

SACRAMENTO, Cal.—Federal Government plans to reconstruct Mather Field, near Sacramento, making it the largest Army Air Corps station in Northern California, according to word received from Washington. It is expected that 36 officers, 472 men and 40 planes will be transferred to Mather Field from other fields.

Sub-Bids Wanted.
ADDITION Cost, \$15,000
SAN FRANCISCO. Letterman General Hospital.

One-story and basement reinforced concrete addition to nurses' dormitory.

Owner—U. S. Government.
Architect—Constructing Quartermaster, Fort Mason.

Low Bidder—Western Hardwood Floor Co., 425 Bosworth Street.

Sub-bids are wanted on all portions of the work by the low bidders.

HALLS AND SOCIETY BUILDINGS

Planned.
LODGE Cost, \$25,000

SANTA BARBARA, Cal. Carrillo and St. Vincent Sts.

Lodge building.

Owner—Santa Barbara Aerie of Eagles No. 412 (Ed. Perez, chairman).

Architect—Not Selected.

Contract Awarded.
CLUB HOUSE Cost, \$100,000

SANTA CRUZ, Santa Cruz Co., Cal. Pasatiempo Golf Club site.

One-story brick club house.

Owner—Santa Cruz Development Co. (R. A. Howe in charge), Scotts Valley Highway, Santa Cruz.

Architect—Clarence Tantau, Shreve Bldg., San Francisco.

Contractor—Hamilton & Church, 333 Ocean Ave., Santa Cruz.

MALIBU DISTRICT, Los Angeles Cal.—Architect Charles F. Plummer, 1108 Story Bldg., Los Angeles, preparing working drawings for club facilities to be established on tract of land situated half way between the Coast Highway and Ventura Blvd., in Malibu district for Backus Park Outdoor Club, C. M. Backus, president. Work comprises club building, golf course, swimming pool, children's playground, water system and

sewage disposal plant. Clubhouse will contain lounge, dining room and kitchen; frame construction, stucco exterior.

ALBANY, Alameda Co., Calif.—City will vote November 4 on proposal to issue bonds of \$12,000 to finance purchase of a site on which it is proposed to erect an American Legion Memorial Hall.

Prospective Bidders.
CLUB Cost, \$2,000,000
SAN FRANCISCO. Post and Mason Streets.

Twenty-six-story class A club.
Owner—Olympic Club, premises.
Architect—John B. Kewell, Arthur Brown, Jr., and John Bauer, associated, 251 Kearny St.

Mechanical Engineers—Leland & Haley, 58 Sutter St.

Engineer—C. H. Snyder, 251 Kearny. Steel frame and concrete construction, brick and terra cotta trim, granite base, marble, hardwood finish, six freight elevators, 2 freight elevators, 1 special elevator, elevators for garage, sidewalk elevators, steam heat and oil burning system, tile roofing.

Following contractors have secured plans:

1. J. Walker Co., Sharon Bldg.

Lindgren & Swinerton, Inc., 225 Bush Street.

Barrett & Hilp, 918 Harrison St.

McDonald & Kahn, Financial Center Bldg.

Clinton Const. Co., 232 Folsom St.

K. E. Parker Co., 135 South Park.

Dinwiddie Const. Co., Crocker Bldg.

Bids are to be opened Oct. 28, 12 noon.

LOS ANGELES, Cal.—Trust counsel of Security-First National Bank has announced details of \$350,000 planetarium to be erected on top of Mt. Hollywood in connection with a hall of science and astronomical observatory. The project will be financed from a trust fund created by the late Col. Griffith J. Griffith and will be constructed under the supervision of Los Angeles city park department. A large domed building, providing seating for about 5000 people, will be built.

Plans Being Revised.
RECREATION BLDG.

Contract price, \$161,507

SANTA CRUZ, Santa Cruz Co., Cal.

Two-story reinforced concrete recreation building (swimming pool, bowling alleys, etc.)

Owner—Interstate Recreation Corp., Ltd., J. B. Munjar, Phelan Bldg., San Francisco, President.

Architect—Joseph L. Stewart, Federal Reserve Bank Bldg., San Francisco.

Contractor—Carl N. Swensen, 47 W. Santa Clara St., San Jose.

Building awarded on general contract basis.

As previously reported, wrecking awarded to Dolan Bros. Wrecking Co., San Pablo Ave. and Ashby Street, Berkeley.

EUREKA, Humboldt Co., Cal.—J. J. Groden & Co., 1028 San Antonio Ave., Alameda (Alameda 5029), desires sub-bids in connection with the construction of a two-story reinforced concrete recreational building to be erected in Eureka for the Interstate Recreation Corp., Ltd., J. B. Munjar, Phelan Bldg., San Francisco. Plans prepared by Architect Jos. L. Stewart, Federal Reserve Bldg., San Francisco. Cost, \$100,000. Bids are now being received by Architect for a general contract. Sub-bids are wanted on ornamental iron work, reinforcing steel, structural steel, mill work, sheet metal, lath and plaster, roofing, electric wiring, tile work,

painting, glass and glazing, shades, fiberstone floors. Sub-bids to be in on or before October 4.

HOSPITALS

Construction Indefinitely Postponed.

PAYLON Cost, \$8000

SAN FRANCISCO. Sixth Avenue and Geary Street.

Class C brick X-ray pavilion.

Owner—French Hospital, premises.

Architect—Fabre and Hildebrand, 110 Sutter Street.

MERCED, Merced Co., Cal.—Bids will be asked at once by P. J. Thornton, county clerk, to be opened about October 15, for alterations and additions to tubercular ward at County Hospital grounds. Plans on file in office of clerk.

Bids To Be Taken In One Week.

BUILDINGS \$352,000 available

AGNEW, Santa Clara Co., Cal. State Hospital Grounds.

Farm Colony buildings.

Owner—State of California.

Architect—George B. McDougall, state architect, Public Works Building, Sacramento.

Proposed work comprises three reinforced concrete ward buildings, having a combined capacity for 300 patients and construction of a combined commissary, kitchen and power house building.

LOS ANGELES, Cal.—Following contracts awarded by County of Los Angeles for completing the new acute unit at the Los Angeles General Hospital:

Tile—B. V. Collins, 1431 E. 16th St., Los Angeles, at \$290,135.

Carpentry and Mill Work—J. W. Jean, 2635 N. Allen Ave., Pasadena, at \$59,171.

Ornamental Metal—Philip Friedman & Son, 5000 Pacific Blvd., Los Angeles, at \$38,809.

Lawn Sprinklers—Brooks of California, 142 S. La Brea Ave., Los Angeles, at \$25,553.

Carpentry—J. L. Davidson Co., 632 Mateo St., Los Angeles, at \$54,143.

Cement Finish—Weymouth Crowell Co., 2104 E. 15th St., Los Angeles, at \$448,290.

Plans Being Figured—Bids Close

October 15, 11 A. M.

ALTERATIONS Cost, \$—

MERCED, Merced Co., Cal. County Hospital Grounds.

Alterations and additions to temporary Tubercular Ward.

Owner—County of Merced, P. J. Thornton, County Clerk.

Engineer—W. E. Bedesen, Shaffer Bldg., Merced.

Certified check 10% payable to Chairman of the Board of Supervisors required with bid. Plans obtainable from engineer on deposit of \$10, returnable.

Plans Being Figured—Bids Close

October 28, 2 P. M.

HOSPITAL Cost, \$70,500

SPADRA, Los Angeles Co., Cal. State Hospital Grounds.

Two one-story reinforced concrete ward buildings with tile partitions, wood roof construction and tile roofs; approximate floor area, 4200 sq. ft. for receiving ward and 2000 sq. ft. for Wards 1 and 2; auditorium of frame construction, 2700 sq. ft. floor area, stucco exterior, tile roof.

Owner—State of California.

Architect—Geo. B. McDougall, State Architect, Public Works Bldg., Sacramento.

Bids are wanted for (a) general

contract, embracing all work except mechanical work. Separate bids will be considered for mechanical work, comprising plumbing, heating, ventilation and electric work.

Bids Opened.

HOSPITAL Cost, \$300,000

STOCKTON, San Joaquin Co., Cal.

Class A brick or concrete county general hospital.

Owner—County of San Joaquin.

Architect—Fred H. Meyer, 742 Market St., San Francisco.

Consulting Architect—Davis & Pearce Co., Grant and Weber Sts., Stockton.

Following is a complete list of bids:

Monson, Bros., 475 6th St., San Francisco \$174,480

E. H. Riley, Stockton..... 174,757

Geo. H. Murphy and P. E. Taylor, Stockton..... 178,464

O. H. Chain, Stockton..... 179,000

R. W. Littlefield, Oakland..... 179,400

P. J. Maurer, Piedmont..... 181,169

J. P. Shepherd, Stockton..... 183,300

G. P. W. Jensen San Francisco 183,500

J. W. Cobby & Son, S. F..... 184,600

H. C. Vickroy, Stockton..... 185,193

John J. Cavanaugh, Stockton 186,000

J. S. Metzger & Son, Stockton 186,600

Spivock & Spivock, S. F..... 187,000

F. R. Zinc, Stockton..... 187,000

Carl N. Swensen, San Jose..... 187,111

Leibert & Trobeck, S. F..... 188,553

McDonald & Kahn, S. F..... 188,900

Lewis & Green, Stockton..... 189,800

H. L. Petersen, S. F..... 191,000

N. H. Sjoberg & Son, S. F..... 192,163

Lindgren and Swinerton, Inc., Sacramento 192,939

P. F. Reilly, San Francisco..... 196,213

S. Rasoli, San Francisco..... 199,858

Schuler & McDonald, Oakland 205,347

Electric Work

Hild Electric Co., 125 W. Main St., Stockton..... \$ 8,544

H. S. Tittle Co., San Francisco 10,783

Matson-Seabrook Co., Oakland 11,729

Superior Elec. Co., S. F..... 11,800

Globe Elec. Co., S. F..... 11,849

Eddy Elec. Co., Stockton..... 11,878

Collins Elec. Co., Stockton..... 12,044

E. L. Gnekow, Stockton..... 12,057

Decker Elec. Co., S. F..... 12,620

Con Franke, Stockton..... 13,215

Heating and Ventilating

Miller Hays Co., Grant & Weber Sts., Stockton..... \$17,734

Scott Co., San Francisco..... 17,387

The Turner Co., S. F..... 17,539

J. H. Pinkerton Co., S. F..... 18,900

L. H. Dallman, Sacramento..... 19,850

F. W. Snook Co., S. F..... 21,213

E. L. Gnekow, Stockton..... 21,217

W. T. Gibson, Stockton..... 21,850

A. P. Ray, Stockton..... 22,233

Gilley-Schmid Co., S. F..... 23,373

Brandt Bros., Stockton..... 24,387

Bids held under advisement.

REDWOOD CITY, San Mateo Co., Cal.—Directors of the Chamber of Commerce are considering the proposal of Dr. M. E. Eastman for the establishment of a community hospital in connection with the Three Link Hospital Association, an outgrowth of the Independent Order of Odd Fellows. J. Emerson, who recently established such a hospital at Pleasanton, Alameda County, is associated with Dr. Eastman in the financing plans. The hospital would have a capacity of 35 beds and would be erected on the unit plan.

LOS ANGELES, Cal.—R. G. Meyer Corp., 940 Maple Ave., Los Angeles, submitted low bids to the State Department of Public Works, Sacramento, for boilers to be installed at the Whittier State School, Whittier, and at Pacific Colony, Pomona. The bids follow: R. G. Meyer Corp., (1) Whittier, \$13,170, (2) Pomona, \$12,230; C. C. Moore & Co., San Francisco, (1) \$13,237, (2) \$12,704; Consolidated Steel Corp., Los Angeles, (1) \$16,490, (2) \$14,300. Awards recommended to low bidder.

Plans Being Completed.
SERVICE BLDG. Cost, \$100,000
SAN JOSE, Santa Clara Co., Cal.
Two-story reinforced concrete service building.

Owner—County of Santa Clara.
Architect—Binder & Curtis, 35 W. San Carlos St., San Jose.

Bids will be taken in about three weeks.

To Raise Funds.
BUILDING Cost, \$10,000
SAN LEANDRO, Alameda Co., Cal.
Health Center Building.
Owner—San Leandro Health Center.
Architect—Not Yet Selected.
Drive is now on to raise funds to finance construction. The city of San Leandro has pledged \$3,000 of the amount needed for construction. W. A. Richmond is city manager of San Leandro.

Prospective Bidders.
REMODEL Cost, \$35,000
OAKLAND, Alameda Co., Cal.
Highland Hospital Grounds.
Remodel entrance to hospital.
Owner—County of Alameda.
Architect—H. H. Meyers, Kohl Bldg., San Francisco.

Following is a partial list of prospective bidders:
Schuler & McDonald, 1723 Webster St., Oakland.
E. T. Leiter & Son, 811 37th St., Oakland.
George J. Maurer, 50 York Drive, Oakland.
Gaubert Bros., 4735 Brookdale Ave., Oakland.
J. J. Grodum & Co., 1028 San Antonio Ave., Alameda.
Bids to be opened October 14, 10 A. M.

Alterations are to provide a new entrance for receiving and discharging patients. Under the new arrangement the first floor of the "A" building will be used as a receiving ward and a corridor will connect the present receiving ward with the new one.

Plans Being Figured—Bids Close Oct. 20, 1:30 P. M.
SANITARIUM Cost, \$15,000
One-story frame and stucco sanitarium.
Owner—Bret Harte Sanitarium, Murphy.
Architect—Joseph Losekann, 1218 W. Harding St., Stockton.

HOTELS

Plans Being Prepared.
HOTEL Cost, \$120,000
SALINAS, Monterey Co., Calif.
Monterey Street.
Three-story reinforced concrete hotel (120 rooms).
Owner—Withheld.
Architect—A. W. Story, Pajaro Valley Bank Bldg., Watsonville.
Bids will be called for at a later date.

Plans Being Completed.
HOTEL Cost, \$250,000
SAN FRANCISCO. Pine St., bet. Powell and Stockton Sts.
Sixteen-story steel frame and concrete hotel.

Owner—Shell Drake Hotel Co.
Architect—H. C. Baumann, 251 Kearney St., San Francisco.
Bids will be taken within one week.

Plans Being Revised.
HOTEL Cost, \$40,000
REDWOOD CITY, San Mateo Co., Cal.
Gaines Street.

Two-story brick hotel (30 rooms).
Owner—Sol Morris, Redwood City.
Plans by Carl Schuetz, 1125 The Highway, Redwood City.

Segregated bids will be taken in one week. Will have composition and tile roof, oil heating system.

ICE AND COLD STORAGE PLANTS

Sub-Contracts Awarded.
OFFICES Cost, \$75,000
SAN FRANCISCO. Third and Arthur Streets.

Two-story and basement reinforced concrete and steel offices and cold storage building.

Owner—H. Moffatt & Co., 3rd and Arthur Sts.
Engineer—Ellison and Russell, Pacific Building.

Contractor—Barrett & Hilp, 918 Harrison St.
Form Lumber—Rolando Lumber Co., 301 Berry St.
Electric Wiring—Brayer Elec. Co., 7 Front St.

As previously reported, excavating awarded to Sibley Grading & Teaming Co., 165 Landers St.

Sub-Contracts Awarded.
OFFICES Cost, \$75,000
SAN FRANCISCO. Third and Arthur Streets.

Two-story and basement reinforced concrete and steel offices and cold storage building.

Owner—H. Moffatt & Co., 3rd and Arthur Sts.
Engineer—Ellison and Russell, Pacific Building.

Contractor—Barrett & Hilp, 918 Harrison St.
Plumbing—Turner Co., 329 Tehama St.
Mill Work—Anderson Bros. Planning Mill Co., Quint and Custer Sts.

As previously reported, excavating awarded to Sibley Grading & Teaming Co., 165 Landers St.

POWER PLANTS

SHASTA COUNTY, Calif.—Application has been made to the Federal Power Commission by the Pacific Gas and Electric Co. of San Francisco, for a license to construct a system of power projects on the North and South Forks of Battle Creek in Shasta county. The system will consist of the so-called Coleman, South, Inskip and Volta plants, six reservoirs, several canals and eight transmission lines. The output of the power plant would be 20,400-hp., the power to be sold in the Superior California section.

General Contract Awarded.
POWER HOUSE Cost, \$30,000
MODESTO, Stanislaus Co., Cal.
Stanislaus County Hospital.

Two-story reinforced concrete and hollow tile power house (unit 3).
Owner—County of Stanislaus.
Architect—Russell Guerne De Lappe, 1710 Franklin St., Oakland.

Contractor—G. J. Ulrich Constr. Co., 1425 Stoddard Ave., Modesto, at \$6395.

As previously reported, electric contract awarded to Wills Elec. Co., 917 I St., Modesto, at \$225; elevators to Otis Elevator Co., 1 Beach St., San Francisco, at \$4956; heating to D. R. Hoffman, 611 I St., Modesto, at \$10,966

UKIAH, Mendocino Co., Cal.—Until October 8 8 P. M., bids will be received by Fred L. Bosworth, city clerk, to erect sub-station in connection with municipal power plant. Certified check ten per cent payable to city required with bid. Plans obtainable from city clerk at Ukiah.

FRESNO, Fresno Co., Cal.—The first step toward building a \$5,500,000 hydroelectric and irrigation reservoir dam across the San Joaquin river above Friant was taken Sept. 24, following the filing of a suit for condemnation of land. The suit was filed on behalf of the Kings River Water Association, citing the right of eminent domain, and names more than 30 defendant owners of land in Fresno county. It is expected a similar suit will be filed in Madera against landowners on that side of the river. The papers filed declare the project is necessary to supply irrigation and domestic waters for a total of 241,300 acres of land, most of which already is partly irrigated. The dam would impound 250,000 acre feet of water.

LOS ANGELES, Cal.—A \$13,300,000 city bond issue will be placed on the ballot No. 4, to provide for construction of (1) aqueduct power plants, (2) power development in Big Pine Creek, Owens Valley, (3) central receiving station and connecting lines, (4) Boulder Canyon power rights-of-way, (5) local distributing station and (6) overhead and underground distribution system.

LOS ANGELES, Cal.—Graybar Elec. Co. was awarded contract by the city purchasing agent Sept. 25, at \$12.55 per C ft., for 160,000 ft. 4-in. I. D. fibre conduit. Spec. 2180.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

Preliminary Sketches Prepared.
CITY HALL Cost, \$30,000
WALNUT CREEK, Contra Costa Co., Calif.

City Hall.
Owner—City of Walnut Creek.
Architect—George Ellinger, 1723 Webster St., Oakland.

Bond election will be held shortly.

Commissioned To Prepare Plans.
LIBRARY Cost, \$40,000
FAIRFIELD, Solano Co., Cal.
Fireproof public library.
Owner—County of Solano.
Architect—Coffman, Sahlberg & Stafford, Forum Bldg., Sacramento.

UKIAH, Mendocino Co., Cal.—General Electric Co., San Francisco, at \$1,567.30 awarded contract by city council to furnish (a) cars, Ukiah, following electrical equipment.

One indoor type, single phase induction voltage regulator primary volts 2400, sec. volts 180/166 7½/15% boost and lower.

Regulator to be complete with contact making volt meter, line drop compensator, motor control switch, line switch and 220 volt 3-phase operating motor. Instruments must be wired and assembled on panelboard to regulator. Regulator must be complete for operating on 2400 volt circuit, except not to include current and potential transformers.

Westinghouse Electric & Mfg. Co., San Francisco, at \$1,568 only other bidder.

OAKLAND, Cal.—Until October 2, 12 noon, bids will be received by F. C. Merritt, city clerk, to construct concrete steps at the north entrance of the Municipal Auditorium. Plans on file in office of clerk.

Low Bidders.
ANNEX Cost, \$—
VENTURA, Ventura Co., Cal.
Reinforced concrete steel frame and
brick courthouse annex and jail.
Owner—County of Ventura.
Architect—Harold E. Burkett, 455 East
Main St., Ventura.

General Work
H. W. Schluter, Beverly Hills, \$258,490
Electrical Work
American Electric Const. Co.,
Los Angeles \$7,990

Painting
H. Wasserman, Los Angeles, \$5,739
Plumbing
Wigton & Noyes, Ventura, \$20,558
Heating and Ventilating
Pacific Pipe & Supply Co., Los
Angeles \$14,360

Linoleum
Seaside Products Co., L. A., \$2,411
Elevators
Consolidated Steel Corp., L. A., \$3,555
Prison Cells

Southern Prison Co., San An-
tonio, Texas, \$72,500
Finish Hardware
Bennett Montgomery, L. A., \$2,995
Water Softener
Wigton & Noyes, Ventura, \$1,362

Refrigerator
Fred. Snodgrass, Los Angeles, \$995
Bids held under advisement.

Sub-Contracts Awarded.
LIBRARY Cost, \$47,360
BURLINGAME, Santa Cruz Co., Cal.
One-story concrete library (the roof).
Owner—City of Burlingame, J. R.
Murphy, city clerk.

Architect—E. L. Norberg, 580 Market
St., San Francisco.
Contractor—Chas. Pederson, 734 Pros-
pect Ave., San Mateo.

House Moving—E. Andersen & Son.
Grading—H. E. Casey Co., 307 B St.,
Burlingame.

Reinforcing Steel—Concrete Engineer-
ing Co., 1280 Indiana St., S. F.
Steel Sash—United States Metal Prod-
ucts Co., 330 10th St., S. F.

Painting—Raphael Co., 270 Tehama
St., San Francisco.
Glass—W. P. Fuller Co., 301 Mission
St., San Francisco.

Wiring—Mausser Electric Co., Burlin-
game.
Concrete Material—H. E. Casey Co.,
Burlingame.

Dunn Water—Price Bldg. Specialties
Co., 633 Howard St., S. F.
Brick Work—H. Parnell, San Mateo.
Roof—Imzirian Roofing Co., San Ma-
teo.

Tiling—Malott & Peterson, San Mateo.
Millwork—Pacific Mfg. Co., Monad-
nock Bldg., San Francisco.
Concrete Framing Lumber—Sunset
Lumber Co., 400 High St., Oak-
land.

SAN JOSE, Santa Clara Co., Cal.—
San Jose Civic Center. Commerce has
appointed a committee to secure data
relative to civic auditoriums, their
cost, design, uses and other factors.
San Jose has been assured a civic au-
ditorium through the will of the late
Viola K. Dunne, who died at her Hills-
borough home last April. The will left
between \$185,000 and \$200,000 to San
Jose for a civic auditorium. The money
will become available as soon as
the affairs of the estate are closed.
(3211) 1st report Sept. 5, 1930.

RIVERSIDE, Cal.—Until 10 A. M.,
October 27, bids will be received by
Riverside county supervisors for fur-
nishing and installing jail equipment
in the new county building under con-
struction in Riverside. Bids will be
taken on cell floors and partitions,
plumbing, terrazzo work, etc. G. S.
Wilson, architect, 3646 W. 9th Street,
Riverside.

OROVILLE, Butte Co., Calif.—City
council contemplates erection of a new
firehouse. City's equipment is now
housed in private garage.

Plans Being Prepared.
REMODELING Cost, \$10,000
SAN CARLOS, San Mateo Co., Cal.
Remodel City Hall.
Owner—City of San Carlos.
Architect—E. L. Norberg, 580 Market
St., San Francisco.

The work will include the installa-
tion of a fireproof vault for the city
assessor and tax collector; an audi-
torium, 33 by 35 ft., seating 300 per-
sons; heating and ventilating will also
be included in the changes.

Bids will be called for in about two
weeks.

OAKLAND, Alameda Co., Calif.—
Electrical Communication Co., 121 2nd
St., at \$12,073 submitted lowest bid to
city clerk to furnish and install a
combination automatic and manual
telephone switchboard for fire alarm
central station.

Following is a complete list of bids:
Electrical Communication Co., \$12,073
Sierra Equip. Corp., \$12,279
Telephone Equip. & Repair Co., \$12,896
Bids held under advisement.

Painting Bids Wanted.
AUDITORIUM Cost, \$—
WATSONVILLE, Santa Cruz Co., Cal
Paint exterior walls of Municipal au-
ditorium (2 coats of paint; 1st
coat to consist of pure white lead
and boiled linseed oil with 25% of
first binder. Second coat to be
pure white lead and boiler linseed
oil).

Owner—City of Watsonville, M. M.
Swisher, City Clerk.
Architect—None.

Paint to be applied with brush, or
it may be applied with a spray ma-
chine under at least 300 lbs pressure;
colors to be selected by Building Com-
mittee.

YREKA, Siskiyou Co., Cal.—As pre-
viously reported, the following con-
tracts were awarded by the city
trustees in connection with firehouse
at Mixer and Oregon Streets:
General Contract—M. E. Dillon, Yreka
\$9505.

Plumbing and Heating—Dinkins &
Churchill, Yreka, \$3070.
Electric Wiring—Electric Supply Co.,
Yreka, \$445.

Following is a complete list of bids
received:

(a) General construction; (b) alter-
nate if river run gravel is used, deduct
(c) if metal roof is used add.
M. E. Dillon, Yreka (a) \$10,029; (b)
\$224; (c) \$100.

O. S. Almie, San Francisco (a) \$10,290
(b) \$190; (c) \$160.

D. M. Reid, Yreka (a) \$10,854; (b)
\$256; (c) \$142. (Structure com-
plete, including plumbing and
heating, \$14,336).

Sig Ash, Medford, Ore. (a) \$10,980;
(b) \$290; (c) \$130.

Frazer & Huls, Klamath Falls, Ore.,
(a) \$12,100; (b) \$280; (c) \$153.

Albert Young, Yreka (a) \$12,175; (c)
\$128.75.

Fred P. Hart, Montague (a) \$12,900;
(b) \$300; (c) \$150.

Calvert & Llum, Grants Pass, Ore.
(a) \$13,347; (b) \$75; (c) \$123

Plumbing
Dinkins & Churchill, Yreka, \$576
Provo Bros., Ashland, Ore., 1010

Plumbing-Heating (Combined)
C. S. Allingham, Mt. Shasta, Cal., \$3025

Heating
C. S. Allingham, Mt. Shasta, \$2525
Dinkins & Churchill, Yreka, 2554

Provo Bros., Ashland, Ore., 2965
Electric Work
Electric Supply Co., Yreka, \$445

Cupid's Elec. Store, Yreka, 465

SAN MATEO, San Mateo Co., Cal.
City plans to vote bonds of \$90,000
to finance purchase of seven acres of
the Clark Estate property for a city
hall site. Architects Edwards and
Schary, 605 Market St., San Fran-
cisco, are making surveys to deter-
mine the cost of remodeling the pre-
sent city hall for the new site.

ALBANY, Alameda Co., Calif.—City
will vote November 4 on proposal to
issue bonds of \$20,000 to finance erec-
tion of a new city hall on proposed
site adjoining the firehouse at San
Pablo Ave. and Washington St.

RESIDENCES

Plans Being Completed—Contract
Awarded.

RESIDENCE Cost, \$17,500
SAN FRANCISCO, St. Francis Wood.
Two-story and basement frame and
stucco residence (12 rooms, three
baths).

Owner—J. Trevorrow (Allen & Co.),
168 Sutter St.

Plans by D. E. Jackle, Cal Bldg.
Contractor—A. J. Herzig, 1945 Ocean
Avenue.

Oil burning system, full tile roof, all
colored the kitchens and bath rooms,
oak floors throughout, hardwood trim,
electric refrigeration, sweep chutes,
etc.

SANTA BARBARA, Cal.—D. H.
McQuiddy, 707 Anacapa St., Santa
Barbara, has been awarded contracts
for the erection of the following resi-
dences: Cottage at the San Ysidro
ranch resort in Montecito for Mrs.
Harleigh Johnston to cost \$22,000;
garage and gardener's cottage on the
Carl E. Armstrong Estate in Mon-
tecito to cost \$15,000; residence on
the Swift Tract at Lillac and Valley
Roads for M. M. Greene to cost \$30,-
000. Bert Harmer prepared plans for
the structures.

Sub-Bids Being Taken.
RESIDENCE Cost, \$9500
MILBRAE HIGHLANDS, San Mateo
Co., Cal.

One-story and basement frame and
stucco residence (6 rooms).

Owner—Mr. Faber.

Plans by D. E. Jackle, Cal Bldg.
Contractor—Mr. Leslie, Milbrae High-
lands.

Construction Under Way.

RESIDENCE Cost, \$20,000
HILLSBOROUGH, San Mateo Co.
Two-story and basement frame and
stucco residence.

Owner—M. F. Steindler.

Architect—Ed. M. Sharpe, 525 Market
St., San Francisco.

Contractor—Oscar L. Cavanaugh, 432
Occidental Ave., San Mateo.

Contract Awarded.
RESIDENCE Cost, \$10,000
REDDING, Shasta Co., Cal. North-
west Pine and Trinity Sts.

Two-story frame and stucco residence
(7 rooms).

Owner—Laurence J. Kennedy, Red-
ding.

Architect—Not Given.
Contractor—J. P. Brennan, Redding

Plans Being Prepared.
RESIDENCE Cost, \$—

SEATTLE, Washington.
Three-story reinforced concrete resi-
dence

Owner—D. E. Frederick, Seattle.

Architect—Lewis P. Hobart, Crocker
Bldg., San Francisco.

Engineer—T. Ronneberg, Crocker
Bldg., San Francisco.

Bids will be called for in 30 to 45
days.

LOS GATOS, Santa Clara Co., Cal.
—The Minton Co., Mt. View, and Palo Alto, desire sub-bids in connection with the construction of a two-story frame and stucco residence, to be erected in Los Gatos for W. E. Blauer, 1634 The Alameda, San Jose. Plans prepared by Architect Clarence Tantau, Shreve. Bldg., San Francisco. Cost, \$50,000. Bids are to be in October 1st, 12 noon

Sub-Contracts Awarded.
RESIDENCE Cost, \$14,000
PALO ALTO, Santa Clara Co., Calif.
1125 Hamilton Avenue.
Two-story and basement frame and stucco residence.
Owner—F. M. Warren, 1120 High St., Palo Alto.
Architect—E. M. Sharpe, 525 Market St., San Francisco.
Contractor—H. H. Dabinett, 2350 So. Court, Palo Alto.
Lumber—Z. T. Thorning, Redwood City.
Mill Work—Wisnom Co., San Mateo.
Plumbing—J. L. Ingram, Palo Alto.
Painting—Thos. & Stangl, Palo Alto.
Tile—Tanner Tile Co., Palo Alto.
Heating and Sheet Metal—Stanford Sheet Metal Works, Palo Alto.

To Be Done By Day's Work By Owner
RESIDENCE Cost, \$5000
OAKLAND, Alameda Co., Cal. N Victor Ave. W Atlas St.
One-story and basement frame and stucco residence (5 rooms).
Owner and Builder—Andrew Fleming, 3906 Vale Ave., Oakland.
Architect—None.

Plans Being Prepared.
RESIDENCE Cost, \$8000
SEBASSTOPOLE, Sonoma Co., Cal.
Two-story frame and stucco residence
Owner—T. M. Jones.
Architect—Wm. Herbert, Rosenberg Bldg., Santa Rosa.

Preparing Working Drawings.
RESIDENCE Cost, \$—
LOS ANGELES, Cal.
Two-story and basement frame and stucco Spanish type residence (8 rooms).
Owner—E. W. Cadwallader.
Architect—Harold Stoner, 220 Third Ave., San Mateo.
Bids will be taken in two weeks.

Bids To Be Taken In One Week.
RESIDENCE Cost, \$25,000
DEL MONTE, Monterey Co., Cal.
Two-story frame and stucco residence (10 rooms).
Owner—Mrs. Van Ness.
Architect—W. O. Raiguel, Hotel Del Monte, Monterey.

Contract Awarded.
ALTERATIONS Cost Approx. \$7000
BURLINGAME, San Mateo Co., Cal.
Alterations to residence.
Owner—Morgan Gunst, 906 Burlingame Ave., Burlingame.
Architect—H. H. Gutterson, 526 Powell St., San Francisco.
Contractor—Clinton Stephenson Construction Co., Monadnock Bldg., San Francisco.

Bids Opened.
RESIDENCE Cost, \$11,000
ARLINGTON ACRES, Contra Costa Co., Cal.
One and one-half-story frame and stucco residence (7 rooms, 2 baths)
Owner—The Misses Stewart.
Architect—Hardman and Russ, Berkeley Bank Bldg., Berkeley.
Following is a complete list of bids:
Conner & Conner, 1726 Grove St., Berkeley..... \$ 9,120
Wilbur C. Cone, Oakland..... 10,660
Walter Sorensen, Berkeley..... 10,650
David Nordstrom & John Bartlett, Oakland..... 10,950
Bids held under advisement.

Prospective Bidders.
RESIDENCE Cost, \$60,000
ATHERTON, San Mateo Co., Cal.
Two-story brick veneer residence.
Owner—Clarence Walter, 562 Mission St., San Francisco.
Architect—H. H. Gutterson, 526 Powell St., San Francisco.
Following is a list of prospective bidders:

Clinton Stephenson Constr. Co., Monadnock Bldg., San Francisco.
F. S. Marshall, 795 Ashbury St., San Francisco.
D. B. Gladstone, 557 Market St., San Francisco.
A. F. Mattock, 212 Clara St., San Francisco.
Meese & Briggs, 1425 Broadway, Burlingame.
Moore & Madsen, 557 Market St., San Francisco.
G. P. W. Jensen, 320 Market St., San Francisco.
Dowsett Kuhl, Russ Bldg., San Francisco.
L. N. Pollard, 55 Brewster St., Redwood City.

Painting

Freng J. Guddee, 378 24th St., San Francisco
A. Mokofsky & Son, 61 N. Ellsworth Ave., San Mateo.
Gurnette & Chandler, 51 Beaver St., San Francisco.
A. Quandt & Sons, 274 Guerrero St., San Francisco.
Bids are to be in October 8th, 12 noon.

To Be Done By Day's Work By Owner
RESIDENCES Cost, \$10,000 each
SAN FRANCISCO. Monterey Blvd.
Two two-story frame and stucco residences.

Owner and Builder—Stoneson Bros. & Thorinsson, 279 Yerba Buena Ave., San Francisco.
Architect—Charles F. Strothoff, 2274 15th St., San Francisco.

Contract Awarded — Sub-Bids Being Taken.

RESIDENCE Cost, \$16,000
SAN FRANCISCO. S Casa Way W Retiro St.
Three-story and basement frame and stucco residence (8 rooms, 3 baths)
Owner—R. Blass, 1351 Hayes St., San Francisco.
Architect—S. Colton, 3020 Balboa St., San Francisco.
Contractor—E. L. Stoneson, 279 Yerba Buena Ave., San Francisco.

Sub-Figures Being Taken.
RESIDENCE Cost, \$6500
BURLINGAME, San Mateo Co., Cal.
Winchester Tract.
One and one-half-story frame and stucco residence (5 rooms).
Owner—C. Glimor.
Plans by Grimes & Schoening, Balovich Bldg., San Mateo.
Contractor—Grove Pederson, 1015 Laguna Ave., Burlingame.

Low Bidders.
RESIDENCE Cost, \$—
SAN JOSE, Santa Clara Co., Cal.
Two-story and basement frame and stucco residence.
Owner—T. W. MacQuarrie, 309 S. 8th St., San Jose.
Architect—Binder & Curtis, 35 W-San Carlos St., San Jose.
Minton Co., Mt. View, at \$15,957.
Chas. Thomas, San Jose, at \$15,952.
Bids held under advisement.

Contract Awarded.
RESIDENCE Cost, \$20,000
LOS GATOS, Santa Clara Co., Cal.
Two-story frame and stucco residence (servants' quarters, garage, etc.)
Owner—Commander P. Fritz, U. S. N. Architect—A. A. Cantin, 544 Market St., San Francisco.
Contractor—Dowsett - Ruhl Co., Russ Bldg., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$10,000
PALO ALTO, Santa Clara Co., Calif.
143 Lowell Ave.
Two-story shingle residence.
Owner—Walter F. Nickel, 352 Everett St., Palo Alto.
Architect—None.
Contractor—J. A. Broodwood, 1201 Webster St., Palo Alto.

Contract Awarded.
BUNGALOW CT. Cont. price, \$9990
PLEASANTON, Alameda Co., Cal.
One-story frame and stucco bungalow court.
Owner—W. F. Davis, Pleasanton.
Engineers—Crooks & Hill, 1448 Webster St., Oakland.
Contractor—Sullivan & Sullivan, 3021 Maxwell Ave., Oakland.

Preparing Working Drawings.
RESIDENCE Cost, \$20,000
SAN JOSE, Santa Clara Co., Cal.
Two-story and basement frame and stucco residence (10 rooms).
Owner—Withheld.
Architect—Ralph Wyckoff, San Jose National Bank Bldg., San Jose.
Bids will be taken in about three weeks.

ORNAMENTAL WIRE AND IRON WORK

IRON
WIRE

Fence and Gates

TENNIS COURT ENCLOSURES
WIRE SCREENS AND GUARDS

WEST COAST WIRE & IRON WORKS

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Continuous Operation Since 1887

Contract Awarded.
RESIDENCE Cost, \$12,000
PUEBLOMONT, Alameda Co., Cal. No.
237 Park View.
Two-story frame and stucco residence
(7 rooms and garage).
Owner—B. F. Waite, 337 Olive Ave.,
Piedmont.
Plans by Mr. Windsor.
Contractor—George Windsor, 923
Kingston Ave., Oakland.

Contract Awarded.
RESIDENCE Cost, \$10,000
SAN MATEO, San Mateo Co., Cal. No.
507 Cornell Street.
Two-story frame and stucco residence
(8 rooms)
Owner—David Haule, 162 Grand Ave.,
Redwood City.
Architect—None.
Contractor—Koppeler Bros., Premises

Contract Awarded.
RESIDENCE Cost, \$11,000
SAN MATEO, San Mateo Co., Cal.
Owner—G. C. Hess, 1406 Burlingame
Ave., San Mateo.
Architect—None.
Contractor—W. O. Nicolaide, 236 Clark
St., San Mateo.

Contract Awarded.
RESIDENCE Cost, Approx., \$10,000
REDWOOD CITY, San Mateo Co., Cal.
Two-story and basement frame and
stucco residence (Colonial type).
Owner—Major E. H. Rogers, 554 20th
Ave., San Francisco.
Architect—Not Given.
Contractor—Gus Waller, 221 Hudson
St., Redwood City.

LOS GATOS, Santa Clara Co., Cal.
—A. F. and C. W. Matlock, 212 Clara
St., San Francisco, desires sub-bids
in connection with the construction
of a two-story frame and stucco resi-
dence to be erected in Los Gatos for
W. E. Blauer, 1634 The Alameda, San
Jose. Plans prepared by Architect
Clarence Tantau, Shreve Bldg., San
Francisco. Cost, \$50,000. Bids are
to be in October 1, 12 Noon.

Preliminary Plans Being Prepared.
RESIDENCE Cost, \$20,000
OJAI, Ventura Co., Cal. Near Ven-
tura.
One-story and basement frame and
stucco residence (8 rooms) (Span-
ish style).
Owner—Withheld.
Architect—Frederick H. Reimers, 233
Post St., San Francisco.

Plans Complete.
RESIDENCE Cost, \$20,000
STOCKTON, San Joaquin Co., Calif.
Edward Mayor.
Two-story and basement frame and
stucco residence (10 rooms).
Owner—Arthur M. Noble, 945 N El
Dorado St., Stockton.
Architect—Ralph Morrell, Union Bldg.,
Stockton.
Bids will be called for within a few
days.

SCHOOLS

Additional Sub-Contracts Awarded.
ADDITION Cost, Price \$25,936
HILLSBOROUGH, San Mateo Co., Cal.
One-story frame and stucco auditor-
ium addition and three covered
passageways connecting buildings
(tile roof)
Owner—Hillsborough School District.
Architect—Willis Folk Co., 277 Pine
St., San Francisco.
Contractor—Jacks and Irvine, 74 New
Montgomery St., San Francisco.
Brick Work—Wm. A. Rainey, 323
Clementina St., San Francisco.
Glass—Crows Glass Co., 675 Golden
Gate Ave., San Francisco.

As previously reported, reinforcing
steel and mesh awarded to W. C.
Hauck & Co., 280 San Bruno Ave., S.
F.; awning type windows to Univer-
sal Window Co., 1916 Broadway, Oak-
land; stairs to F. M. Phillips, 718
Bryant St., S. F.
Warm air and natural gas furnace
heating is provided; also tile roofing.

Prospective Bidders.
SCHOOL Cost, \$150,000
ANTIOCH, Contra Costa Co., Cal. (15-
acre site), D St.
Two-story brick high school.
Owner—Antioch Live Oak High School
District.
Architect—Davis-Pearce Co., Grant &
Weber Sts., Stockton.
Following is a partial list of the
prospective bidders:
Carl Overaa, 2105 Roosevelt, Rich-
mond.

J. Azevedo, 929 O St., Sacramento.
Wallace Snelgrove, Martinez.
F. H. Cress, 828 Excelsior Avenue,
Oakland.
Spivock & Spivock, Hobart Bldg.,
San Francisco.

MacDonald & Kahn, Financial Center
Bldg., San Francisco.
George J. Maurer, 50 York Drive,
Oakland.
J. J. Grodem & Co., 1028 San Anto-
nio St., Alameda.
H. H. Henning, 1751 Berkeley Ave.,
Stockton.

G. P. W. Jensen, 320 Market Street,
San Francisco.
R. W. Littlefield, 337 17th St., Oak-
land.
Bids are to be opened Oct. 22, 1:30
P. M.

Preparing Plans.
SCHOOL Cost, \$250,000
ALTADENA, Los Angeles Co., Cal.
Lake Avenue.
Masonry Junior High School (class-
rooms, auditorium, cafeteria,
library, music rooms, etc.)
Owner—Pasadena Board of Educa-
tion.
Architect—Marston & Maybury, 25 S.
Euclid Ave., Pasadena.

Plans Being Figured.
SCHOOL Cost Approx., 20,000
OAKLAND, Alameda Co., Cal.
Two-story Class C brick school (audi-
torium).
Owner—Oakland Japanese Methodist
Church.
Architect—Louis M. Upton, 110 Sutter
St., San Francisco.

Plans Being Figured—Bids Close Oct.
20th, 2 P. M.
KINDERGARTEN Cost, \$—
SANTA BARBARA, Santa Barbara
Co., Cal. Robbins St.
Harding School, kindergarten and pri-
mary school.

Owner—Santa Barbara Board of Ed-
ucation.
Architect—Soule, Murphy & Hastings,
116 E. Solá St., Santa Barbara.

MARTINEZ, Contra Costa Co., Cal.
Following contracts awarded by R. L.
Boyer, clerk, Alhambra Union High
School District, to furnish and install
furniture, special fixtures and equip-
ment in new Junior High School, gym-
nasium and shop building, W. H.
Weeks, 111 Sutter Street, San Fran-
cisco, Architect.

Special Fixtures

H. S. Crocker Co., 565 Market St.,
San Francisco, \$10,240.

Electric Light Fixtures

Boyd Light Fixture Co., 270 Post
St., San Francisco, \$3,478.

Chairs

Heywood Wakefield Co., 737 How-
ard St., San Francisco, \$3,328.

Stage Curtains & Drapes.

Ink Ribbon Mfg Co., 635 Howard St.,
San Francisco, \$1,731.

Linoleum

Van Fleet Floor Co., 557 Howard
St., San Francisco, \$3,575.

Bids on Window shades, program
clocks and intercommunication tele-
phone system rejected. New bids will
be advertised about Oct. 6. Complete
list of the bids was published Sept.
29th.

Sub-Contracts Awarded.

SCHOOL Cost, price, \$16,636
CAMINO, El Dorado Co., Cal.
One-story English type stone and
brick school (two classrooms and
auditorium).

Owner—Camino School District.
Architect—W. E. Coffman, Forum
Bldg., Sacramento, and 3529 Em-
merson St., Oakland.

Contractor—C. & Fox, 1516 27th St.,
Sacramento.

Excavation and Hauling—J. J. Wiley,
Camino.

Lumber—Michigan-California Lumber
Co., Camino.

Mill Work—El Dorado Planing Mill,
Placerville.

Concrete Work—Frank Harkin, 1616
7th St., Sacramento.

Plumbing—H. A. Boyd, Placerville.

Painting—Skinner & Wigglesworth,
Placerville.

Sheet Metal—Ahl Sheet Metal Works,
1615 21st St., Sacramento.

Tile and Marble Work—Fischer Tile &
Marble Co., 1219 J St., Sacramento

Ornamental Iron—Palm Iron Works,
15th and S Sts., Sacramento.

Lathing and Plastering—V. Norcia, 5th
Ave., Sacramento.

Window Hardware—Universal Wind-
w Co., 1924 Broadway, Oakland

Finish Hardware—Murry & Low, 1009
J St., Sacramento.

Hardwood Floors—T. Johnson, 2501 T
St., Sacramento.

Brick and Stone Work—Harry Jensen
Miller Way, Sacramento.

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Preparing Working Drawings.

LABORATORY Cost, \$—
LON ANGELES, Cal.

Two reinforced concrete laboratory buildings (60x164 feet) and (100x125 feet).

Owner—California Institute of Technology.

Architect—Mayers, Murray & Phillip, 2 W. 47th St., New York City.

Plaster exterior, art stone trim, tile and composition roofing, cement, tile and linoleum floors, tile toilets, elevators, steel sash, wrought iron, etc.

Plans Being Figured—Bids Close November 5, 2 P. M.

ADDITIONS Cost, \$—
TART, Kern Co., Cal.

Additions for Roosevelt School. Owner—Conley School District, H. R. Kanode, Clerk.

Architect—Chas. H. Biggar, 554-555 Haberfeld Bldg., Bakersfield.

Certified check or bidder's bond of 10% payable to Board of Trustees of district required with bid. Plans obtainable from architect on deposit of \$10, returnable.

Preparing Working Drawings.

SCHOOL Cost approx. \$400,000
OAKLAND, Alameda Co., Cal. 45th Ave. and Foothill Blvd. (Fremont High School Site).

Steel frame and concrete high school with tile roof.

Owner—City of Oakland School Dist. Architect—Charles W. McCall, 1404 Franklin St., Oakland.

Plans will be completed about Nov. 7, but bids will not be advertised before Dec. 1.

SUISUN, Solano Co., Calif.—Peters Furniture Co., Suisun, awarded contract by trustees of Armijo Un. High School District to furnish and install 333 window shades in new high school, now nearing completion.

BERKELEY, Alameda Co., Calif.—Following bids received by Regents of the University of California for furnishing and installing book stacks in the Life Science Building, Berkeley, for the University of California:

C. J. Hillard, Inc., 19th and Minnesota Sts., San Francisco, \$7,093; 45 days.

M. G. West Co., San Francisco, \$8,550; 135 days.

J. L. Davidson Co., San Francisco, \$5,616; 70 days.

General Fireproofing Co., San Francisco, \$9,407; 120 days.

Bids held under advisement until Oct. 21st, the date of the next Regents' meeting.

WOODLAND, Yolo Co., Cal.—Eight bids received by Katherine E. Falt, secretary, Woodland Grammar School District, for heating and ventilating system in connection with the primary school have been taken under advisement. Various proposition were offered by each bidder and no action will be taken until the most economical plan is determined. Bids were submitted by:

Murray & Co., Oakland.

Ideal Heating Co., Oakland.

Aladdin Heating Corp., Oakland.

Woodland Plumbing Supply Company, Woodland.

J. Barth, Woodland.

Norman Miller, Woodland.

P. G. & E. Co., Sacramento.

Walter N. Dunphy, Sacramento.

Date of Opening Bids Postponed Until Oct. 16th.

ADDITIONS, ETC. Cost, \$—
MONTEREY, Monterey Co., Cal.

Additions, alterations and renovations to present shop bldg.; construct 8 tennis courts; construct girls' athletic field; grade, drain and change contours and grades adjacent

thereto at high school.

Owner—Monterey Union High School District.

Architect—Swartz & Ryland, 206 Spaulding Bldg., Monterey.

Bids returned to bidders unopened.

MARTINEZ, Contra Costa Co., Cal.—Following bids received by R. L. Boyer, clerk, Alhambra Union High School District, to furnish and install furniture, special fixtures and equipment in new Junior High School, gymnasium and shop building.

Special Fixtures

H. S. Crocker Co., 555 Market St., San Francisco.....\$10,240

R. Brandelin & Co., S. F.....10,660

Home Mfg. Co., San Francisco.....11,280

Fink & Schindler, S. F.....11,590

Lannom Bros., Oakland.....11,875

Pacific Mfg. Co., San Francisco.....12,272

Brass & Kuhn, S. F.....12,437

Electric Light Fixtures

Rosenberg Co., 411 Webster St., Oakland.....\$2,997

Boyd Light Fixture Co., S. F.....3,478

Chairs

Heywood Wakefield Co., 737 Howard St., San Francisco.....\$3,328

H. S. Crocker Co., S. F.....2,419

C. F. Weber Co., S. F.....3,559

Rucker-Fuller Co., S. F.....3,620

Stage Curtains and Drapes

Ink Ribbon Mfg. Co., 625 Howard St., San Francisco.....\$1,721

C. F. Weber Co., S. F.....1,932

F. E. Turner Co., Stockton.....1,933

Western Scenic Co., Oakland.....2,032

Shades

E. V. Uffelman, 520 Carolina St., Vallejo.....\$ 758

D. N. & E. Walter, S. F.....1,066

Martinez Furniture Co., Martinez.....1,214

Home Furniture Co., S. F.....1,235

H. C. Crocker Co., S. F.....1,552

Opera Chairs

F. E. Turner Co., Stockton.....\$3,015

Spinner Dist. Corp., S. F.....3,200

Ink Ribbon Mfg. Co., S. F.....3,270

H. S. Crocker Co., S. F.....3,419

C. F. Weber Co., S. F.....3,561

Linoleum

Van Fleet Frear Co., 557 Howard St., San Francisco.....\$3,575

Anderson, Ltd.....3,645

Home Furnishing Co., S. F.....3,698

D. N. & E. Walter, S. F.....4,149

Telephone System

Telephone Equipment Co., 515 Market St., S. F.....\$1,008

T. L. Rosenberg, Oakland.....1,105

Program Clocks

International Time Recording Co., 529 Market St., S. F.....\$ 550

Standard Electric Time Co., San Francisco.....1,398

Plans Being Prepared.

EXTENSION Cost, \$—
DAVIS, Yolo Co., Cal.

Extension to gymnasium (first unit: shower and locker rooms, supply rooms, drying rooms, etc.)

Owner—Davis High School District. Architect—Starks & Flanders, Forum Bldg., Sacramento.

Second unit will provide girls' permanent shower and locker rooms and bleachers. Third unit is to be an addition to north side. Will contain physical education director's offices and complete stage. Fourth unit will be on south side where gymnasium, auditorium lobby and ticket windows will be established. When all units are finished, gymnasium will be given brick veneer on walls and tile roof.

Bonds Sold.

SCHOOL Cost, \$35,000
UPPER LAKE, Lake Co., Cal.

One-story reinforced concrete high school.

Owner—Upper Lake Un. High School District.

Architect—Vm. Herbert, Rosenberg Bldg., Santa Rosa.

PRESTON, Sonoma Co., Cal.—Guth & Fox, 1516 27th St., Sacramento, at \$3,746 awarded contract by State of California for construction of general domestic water supply system at the Preston School of Industry, at Ione.

Preparing Working Drawings.

MEMORIAL BLDG. Cost, \$250,000
BERKELEY, Alameda County, Calif.

Campus of University of California.

Two-story class A concrete Esheleman Memorial Bldg. (student publishing building).

Owner—Regents of the University of California, Berkeley.

Architect—G. W. Kelham, 315 Montgomery St., San Francisco.

Plans will be ready for bids in about six weeks.

Plans Complete.

WALL Cost approx. \$1800
COLMA, San Mateo Co., Cal. School Grounds.

Retaining wall and fencing. Owner—Jefferson School Dist., Colma.

Architect—N. R. Coulter, 46 Kearny St., San Francisco.

STORES, STORES & OFFICES

Sub-Contracts Awarded.

STORE Cost, \$9000
SAN MATEO, San Mateo Co., Calif.

Third Avenue.

One-story and basement reinforced concrete store (40x55-ft.).

Owner—Martin Stelling, Jr., 155 Montgomery St., San Francisco.

Architect—Bertz, Winter and Maury, 210 Post St., San Francisco.

Contractor—Clinton-Stephenson Const. Co., Menadnock Bldg., San Francisco.

Plumbing—Morrison & Blair, 415 Villa Terrace, San Mateo.

Concrete Materials—H. E. Casey Co., 307 B St., San Mateo.

Electric Work—Atlas Electric Co., 343 4th St., San Francisco.

Reinforcing Steel—W. S. Wetenhall, 17th and Wisconsin Sts., S. F.

Sub-bids are wanted on plastering and sheet metal.

Contract Awarded.

BUILDING Cost, \$1,250,000
SEATTLE, Wash. NW 7th Avenue and Olive Street.

Seventeen-story and basement steel and concrete class A commercial building.

Owner—"Textile Tower" (owner and operated by Textile Towers, Inc., W. D. Comer, president).

Architect—Earl W. Morrison, Lloyd Bldg., Seattle.

Contractor—Henrikson-Alstrom Const. Co., Securities Bldg., Seattle.

Completing Plans.

STORE Cost, \$250,000
SACRAMENTO, Sacramento Co., Cal.

No. 515-20 K Street.

Three-story Class A store (60x160 ft.). Owner—S. H. Kress & Co., 621 South Broadway, Los Angeles.

Architect—John Fleming, 1031 South Broadway, Los Angeles.

Present building on site to be razed. Construction will start within 60 days.

Bids Opened—Held Under Advisement

ALTERATIONS Cost, \$100,000
SAN FRANCISCO, St. Francis Hotel

(Powell, Geary and Post Sts.)

Alter mural room for restaurant and sweet shop.

Owner—St. Francis Hotel.

Architect—W. B. Saville, Crocker 1st Nat'l Bank Bldg.

Lessee—Fig'n Whistle Corp.

MONTEREY, Monterey Co., Calif.—Monterey County Trust and Savings Bank, Salinas, plans to establish a branch bank in Monterey in the immediate future.

Plans Being Revised.
BUILDING Total Cost, \$2,500,000
SAN FRANCISCO. SW Ellis & Tay-
lor Streets.
Twenty-story Class A building (Mod-
ern Gothic type).
Owner—San Francisco Fine Arts
Building Co., Ltd.
Architect—Clausen & Amandes,
Hearst Bldg., San Francisco.
Contractor—Louis J. Cohn, 1 De Haro
St. and C. L. Wold Co., 185 Stev-
enson St., San Francisco.
More definite information will be
given in about thirty days.

Bids To Be Taken In Two Weeks.
STONE BLDG. Cost, \$50,000
SAN JOSE, Santa Clara Co., Cal. 6th
and St. John Sts.
One- and two-story frame and cast
stone veneer physicians' building
(cover area of 7500 sq. ft.)
Owner—Group of Local Physicians,
including Drs. A. J. Hawchil, T. L.
Blancard, C. S. Sullivan, et al.)
Architect—Herman Krause, P. O. Box
783, San Jose.
Will be known as Physicians' Court.

Contract Awarded.
STORE Cost, \$3000
MT. VIEW, Santa Clara Co., Cal.
One-story reinforced concrete store
(29x42 ft.)
Owner—W. P. Wright, Mt. View.
Architect—Charles McKenzie, Twohy
Bldg., San Jose.
Contractor—Wm. Myer, Blaney Ave.,
San Jose.
Following is a complete list of bids
received:
Wm. Myer, San Jose.....\$2780
P. N. Doyle 2966
J. C. Thorp 2995
Neil Darrah 3124
A. Bloom 3693

Bids To Be Taken In Two Weeks.
STORE Cost, \$12,500
SAN JOSE, Santa Clara Co., Cal.
Two-story brick and concrete stores
and offices.
Owner—Wm. Geoffrey, 296 S Second
St., San Jose.
Architect—Herman Krause, P. O. Box
783, San Jose.

Plans Being Prepared.
STORE Cost, \$250,000
SACRAMENTO, Cal. 318-20 K Street.
Three or four-story class A depart-
ment store (60x160-ft.)
Owner—S. H. Kress & Co., 621 South
Broadway, Los Angeles.
Plans by Eng. Dept. of Owner, Los
Angeles.
Sub-Contracts Awarded.
STORE Cost, \$80,000
SAN FRANCISCO. No. 2718 Mission
Street.
Three-story concrete store.
Owner—S. H. Kress Co., 621 S. Broad-
way, Los Angeles.
Plans by Eng. Dept. of Owner.
Contractor—K. E. Parker Co., 135
South Park, San Francisco.
Excavating—Sibley Grading & Team-
ing Co., 145 Lander St., S. F.
Lumber—J. H. McCullum, 748 Bryant
St., San Francisco.
Terra Cotta—Gladding, McBean & Co.,
660 Market St., San Francisco.
Structural Steel—McClintic Marshall
Co., 2050 Bryant St., S. F.
Brick Work—George Barton, 4338
Balboa St., San Francisco.
Other awards will be made shortly.

Contract Awarded.
COTTAGES Cost, \$15,000
RICHMOND, Contra Costa Co., Cal.
W San Pablo Ave., bet. MacBryde
and Glein Sts.
AUTO Camp (10 frame and stucco
cottages).

Owner—Ed Coffinger, 6321 Rover St.,
Oakland.
Architect—None.
Contractor—Carter H. Johnston, Gen-
eral Delivery, Richmond.
Preparing Working Drawings.
STORES Cost, \$150,000
LOS ANGELES, Cal. SE Washing-
ton and Limpau Blvd.
Two-story and basement Class C
brick stores and offices (160x140
feet).
Owner—Trabue Pittman.
Architect—S. Charles Lee, Petroleum
Securities Bldg., Los Angeles.

Construction Indefinitely Postponed.
OFFICE BLDG. Cost, \$50,000
SAN FRANCISCO. 7th and Brannan
Streets.
Modern office building and freight
shed (height and type of construc-
tion not decided).
Owner—Western Pacific R. R. Co.,
Mills Bldg.
Plans by Eng. Dept. of Owner.

Preparing Plans.
STORE Cost, \$—
LOS ANGELES, Cal. No. 541 S.
Broadway.
Six-story and basement Class A store
(60x152 feet).
Owner—F. & W. Grand Co.
Architect—Walker & Eisen, Western
Pacific Bldg., Los Angeles.
Construction will start about Feb.
1.

Contract Awarded.
STORE Cost, \$9000
SAN MATEO, San Mateo Co., Calif.
Third Avenue.
One-story and basement reinforced
concrete store (40x53-ft.)
Owner—Martin Stelling, Jr., 155 Mont-
gomery St., San Francisco.
Architect—Bertz, Winter and Maury,
210 Post St., San Francisco.
Contractor—Clinton-Stephens Const.
Co., Monadnock Bldg., San Fran-
cisco.

THEATRES

Construction Managers Named.
LEGION BLDG. Cost, \$2,500,000
SAN FRANCISCO. Civic Center.
Four-story and basement concrete
Class A Legion Building.
Owner—City and County of San Fran-
cisco (S. F. War Memorial).
Architect—G. A. Lansburgh, 140 Mont-
gomery St., and Arthur Brown, 251
Kearny St., San Francisco.
Managers of Constr.—Lindgren &
Swinerton, Inc., 225 Bush St., San
Francisco.
A. Wagstaff, 451 Montgomery St.,
is in charge of the memorial drafting
rooms.
Bids will probably not be called for
until January, 1931.

Construction Managers Named.
OPERA HOUSE Cost, \$2,500,000
SAN FRANCISCO. Block bounded by
San Ness Ave., Franklin, Grove
and Fulton Sts.
Six-story Class A opera house, seating
capacity 4000; standing room 500.
Owner—City and County of San Fran-
cisco (S. F. War Memorial).
Architect—G. A. Lansburgh, 140 Mont-
gomery St., and Arthur Brown, 251
Kearny St., San Francisco.
Managers of Constr.—Lindgren &
Swinerton, 225 Bush St., S. F.
Bids will probably not be called for
until January, 1931.

Contracts Awarded.
THEATRE Cost, \$250,000
SAN FRANCISCO. Ocean Ave. bet.
Fairfield and Lakewood.

Class A steel frame and reinforced
concrete theatre and (6-8) stores,
theatre seating 1800.
Owner—Samuel Levin.
Architect—Miller & Plueger, 580 Mar-
ket Street.
Contractor—H. L. Peterson, 731 Treat
Avenue.
Structural Steel—Golden Gate Iron
Works, 1541 Howard St.
Heating, ventilating and electrical
bids are held under advisement.
Structure will have a seating ca-
pacity of 1800 and contain six or eight
stores. It will have a frontage of 182
feet on Ocean Ave.

WHARVES AND DOCKS

SAN FRANCISCO.—Healy-Tibbitts
Const. Co., 64 Pine St., at \$39,500 sub-
mitted low bid to B. P. Lamb, secre-
tary, Board of Park Commissioners,
Park Lodge, Golden Gate Park, for
(1) Construction of two wharves;
(2) Construction of approximately
100 yacht berths.
The above work in connection with
the Yacht Harbor Extension at the
Marina.
Following is a complete list of bids:
Healy-Tibbitts Const. Co., .. \$39,500
Duncanson-Harrelson Co., .. 42,276
A. W. Kitchen 46,332
San Francisco Bridge Co., .. 47,000
M. B. McGowan 47,936
Jen C. Gerwick, Inc. 48,339
Bids held under advisement.

MISCELLANEOUS
CONSTRUCTION

SAN FRANCISCO.—M. J. Lynch, 478
30th St., at \$16 each awarded con-
tract by Board of Public Works to
furnish and install 109 street signs in
various sections of the city.

IDLEWILD, Del Norte Co., Calif.—
Until October 8, 2 P. M., bids will be
received by F. W. Hazelwood, district
engineer, State Highway Commission,
to erect maintenance station at Idle-
wild, consisting of a superintendent's
cottage, bunk house, truck shed, com-
bination woodshed and garage, gaso-
line and oil house, septic tank and
station sign.

GARBERVILLE, Humboldt Co., Cal.
—Until October 7, 2 P. M., bids will
be received by F. W. Hazelwood, dis-
trict engineer, State Highway Com-
mission, 546 Wabash Ave., Eureka, to
erect maintenance station at Garber-
ville to consist of a superintendent's
cottage, office and store house, bunk
house, combination woodshed and gar-
age, gasoline and oil house, septic
tank and station sign.

BAKERSFIELD, Kern Co., Calif.—
Howard Gilkey, landscape engineer,
337 17th St., Oakland, has submitted
plans to county supervisors for de-
velopment of the Kern River Park,
including the construction of a lake
which would involve moving of ap-
proximately 100,000 cu. yds. earth for
construction of levees and embank-
ments. Water supply will probably be
secured from a higher level of the
river, with a 1700-ft. pipe line to sup-
ply the lake with 10 second feet of
water. The estimated cost of con-
structing the lake and basin is \$30,000.

Construction Under Way.
GOLF COURSE Cost, \$10,000
(cost plus basis)
SAN FRANCISCO. Franklin and Fell
Sts.
Miniature golf course
Owner—Dr Raymond.
Architect—Charles Strothoff, 2574 15th
Street.
Contractor—Barrett & Hilp, 918 Har-
rison St.

SARATOGA, Santa Clara Co., Cal.—Saratoga Tennis Club plans immediate construction of three new tennis courts. The late Senator Jas. D. Phelan left the club \$2500 for this purpose to which additional monies have been added by private subscription.

Plans Being Prepared.
BUILDING Cost, \$20,000
SAN RAFAEL, Marin Co., Cal.
Two-story brick humane society building.
Owner—Humane Society.
Architect—N. W. Sexton, deYoung Bldg., San Francisco.

SAN FRANCISCO—Brayer Electric Co., 7 Front St., at \$1285 awarded contract by Board of Public Works to furnish and install electric wiring and power equipment for Sunset Pumping Station.

Contract Awarded.
HOTEL, ETC. Cost, \$750,000
PANAMA CITY, Nevada.
Hotel, residences, stores, etc.
Owner—Panama Nevada Consolidated Mining Co., Las Vegas, Nevada.
Architect—Not Given.
Contractor—J. McKeefrey Co., 463 N. Rodeo Drive, Beverly Hills.

Sub-contract bids will be taken by McKeefrey Company in about two weeks. There will be a 40-room, frame and stucco hotel building, store buildings, casino, fifteen 5-room dwellings, road work, etc. The present power plant will be remodeled and \$100,000 worth of new machinery installed in the owner's mill.

STOCKTON, San Joaquin Co., Cal.—Until October 20, 11 A. M., bids will be received by Eugene Graham, county clerk, for repairs to county patrol boat. Plans on file in office of clerk.

Preparing Plans.
SWIMMING POOLS Cost, \$—
LOS ANGELES, Cal. Campus of Los Angeles High School.

Reinforced concrete swimming pools etc., 50x80 feet and (60x75 feet).
Owner—Los Angeles Board of Education.

Architect—J. C. Austin and F. M. Ashley, Chamber of Commerce Bldg., Los Angeles.

The dressing room building will be one-story, 90x150 feet, of brick construction, and the bleachers will be of reinforced concrete construction. There will be chlorination and steam heating systems. Elliot Lee Ellingwood, H. W. Hellman Bldg., is the heating and ventilating engineer. The total cost is estimated at \$80,000.

COLUSA COUNTY, Cal.—Following bids received Oct. 1 by C. H. Whitmore, district engineer, State Highway Commission, Sacramento, to construct 9 miles of property fence or state highway between Bear Creek and 8 miles west of Williams:
George McDaniel, Marysville.....\$ 7,843
Anchor Post Fence Co., S. F.....8,447
B. C. Burnett, Turlock.....10,970
A. Mitchell, Sacramento.....11,498
Standard Fence Co., S. F.....11,997
California Wire Cloth Co., S. F. 12,044
Bids held under advisement.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$20,000
ARENA, Merced Co., Cal.
Alterations and additions to residence, bath house, stables and garage.
Owner—M. C. Jenkins, Arena.
Architect—W. W. Wurster, 260 California St., San Francisco.
Contractor—M. B. Folsom, 219 27th St., Merced.
Masonry—W. H. Burley, Merced.

Heating, Plumbing and Sheet Metal Work—Valley Plumbing & Sheet Metal Works, Merced.
Electric Wiring—Merced Hardware Co., Merced.
Ornamental Iron—Kyle & Co., Fresno
Roofing—Cross Lumber Co., Merced.
Painting—Zierenberg & Son, Merced.
Tile—J. P. Davis, Merced.

LOS ANGELES, Cal.—The architectural department of the R-K-O Radio Pictures will prepare plans for new motion picture film laboratory to be built near Melrose and Grower Sts., Hollywood. Details of construction have not been determined. Cost, \$1,000,000.

MISCELLANEOUS SUPPLIES AND MATERIALS

OAKLAND, Cal.—Until Oct. 2, 12 noon, bids will be received by Frank C. Merritt, city clerk, to furnish emulsified oil and asphalt for road oiling purposes for the remainder of the fiscal year ending June 30, 1931. Bond of \$5,000 required of the successful bidder. Specifications obtainable from clerk.

SACRAMENTO, Cal.—Until Oct. 9, 3 P. M., under Order No. 2476-1705, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver 4,000 lbs. black-smith coal, in 100-lb. sacks. Further information obtainable from above.

BUSINESS OPPORTUNITIES

Safetee Glass Co., 905 North Broad St., Philadelphia, Pa., (C. A. McCusker, manager of Sales and Purchases), seeks concern looking for a satisfactory agency among the auto glass replacement shops of this city, who might be interested in distribution of Safetee Glass.

Semaphore Signal Co., 119 North Washington St., Peoria, Ill., is desirous of obtaining sales representation in San Francisco for a proven automobile accessory.

SAN FRANCISCO—Names and addresses of the individuals or firms concerned in the following opportunities will be furnished on request to the Business Opportunity Department of Daily Pacific Builder, 545-547 Mission Street. Phone GARfield 5744.

20462—Representation in France
Paris, France. Firm desires to form connections with manufacturers who wish to have an office in Paris and to be represented in France.

20465—Chemicals, Minerals, Raw Materials. New York, N. Y. Commission merchants primarily engaged in the chemical, mineral and raw ma-

terial lines, are prepared to consider the introduction and sales of other meritorious American products in Continental Europe.

20466—Copper Sulphate. Hamburg, Germany. Firm desires addresses of local dealers, and consumers, of copper sulphate.

20467—Machinery for Cleaning and Grading Oranges. Budapest, Hungary. Firm inquires for name of manufacturers of machinery for cleaning and grading oranges.

20469—Bauxite Ore, Bauxite Cement. San Francisco, Calif. Firm in Italy desires to communicate with manufacturers or importers interested in bauxite ore, used for aluminum, fire-brick, abrasives, enamelware; also artificial bauxite cement, called cement fondu and clinkers.

20475—Agricultural Implements. Tel-Aviv, Palestine. Party interested in importing into Palestine or agricultural implements, including pruning shears, grafting, etc.

20479—Exhibition Space Salesman. San Francisco, Calif. The representative in the United States of an exposition which will be held in Mexico City in November, 1930, wishes to make contact with agent to sell space on a commission basis.

20480—Timber. San Antonio, Texas. Party in position to offer timber in Mexico for sale on stumpage basis; easily accessible to railways or navigation, either river or ocean. Holdings aggregate millions of acres, in various size tracts.

20483—Belgian Products. New York, N. Y. Belgian concern is anxious to get in touch with firms in San Francisco who will be interested in acting as their selling agents for the following commodities: Slate powder, slate chips, flint and quartz, ochre, special earth and clay.

20486—Chemical Fertilizers. Hamburg, Germany. Firm desires to get in touch with importers of chemical fertilizers: Nitrate of potash and nitrate of ammonia.

20492—Mining Machinery. Edie Creek, Territory of New Guinea. Party is in need of "Bedan Pan" and other mining machinery.

R. R. EXTENSION RECOMMENDED BY FEDERAL EXAMINERS

Examiners of the Interstate Commerce Commission have recommended that the Northern Pacific Railroad and the Oregon-Washington Railroad and Navigation Co. be authorized to construct a branch line from Mocpils to a point on the Hoh River, six miles northeasterly from Spruce, in Gray's Harbor and Jefferson counties, Washington, a distance of about 57 miles. They also recommended that Oregon-Washington Railroad be authorized to operate over the Northern Pacific between Hoquiam and Mocpils, Washington.

NO NOT RISK AN EXPERIMENT

SPECIFY -- USE

Timpie Hydrated Lime

STRONG—PURE—PLASTIC

Ten Years of Uniformly Satisfactory Experience in High

Class Pacific Coast Construction

FOR BRICK MORTAR, WHITE COAT AND SAND FLOAT FINISH

Sold by Representative Dealers Everywhere

Engineering News Section

BRIDGES

YUBA CITY, Sutter Co., Cal.—Ward Engineering Co., 315 Montgomery St., San Francisco, at \$36,599 awarded contract by county supervisors to reconstruct portion of the Nicolaus Bridge over the Feather River at Nicolaus, including one center pier with two steel spans of each end of pier. Complete list of bids follows:

Ward Eng. Co., San Francisco	\$36,599
Ralph Hunter, 2825 S St., Sacramento	39,769
M. A. Jenkins, 3560 Y St., Sacramento	42,335
Engineer's estimate	40,615

NAPA, Napa Co., Cal.—City council will call election to vote bonds of \$40,000 to finance construction of new Third Street bridge. H. A. Harrod, city engineer.

RED BLUFF, Tehama Co., Cal.—H. A. Martin, Corning, at \$1850 awarded contract by county supervisors to construct Bent bridge, 175 ft. in length, over Dry Creek near the Farquhar School in Road District No. 1. Complete list of bids follows:

H. A. Martin, Corning	\$1850
R. B. McKenzie, Red Bluff	2280
T. H. Neilson, Orland	2311
T. H. Polk, Chico	2374
J. W. Waltherman, Orland	2376
J. E. Fitzsimmons, Lodi	2480
L. Ehorn, Red Bluff	2550

MODESTO, Stanislaus Co., Cal.—County Surveyor J. H. Hoskins preparing plans for a fixed span type bridge across the San Joaquin River at the foot of Las Palmas Ave. The war department has ordered revision of former plans in order to permit an additional 11 ft. clearance or a total of 25 ft.

COLLINSVILLE, Solano Co., Cal.—Sacramento Northern Railway has been authorized by the War Department to construct a bridge across Montezuma slough near Collinsville.

LOS ANGELES COUNTY, Calif.—Following three low bids received Oct. 1 by State Highway Commission to construct bridge over Alamitos Bay near Long Beach, consisting of fifteen 19-ft. timber spans with concrete deck and one 41-ft. 4-in. steel beam removable span:

W. F. Teschke, Hollywood	\$39,544
McCray Co., Los Angeles	41,916
Covacevich & Price Inc., Long Beach	\$43,421

OAKLAND, Cal.—Until October 21, 10:30 A. M. bids will be received by George E. Gross, county clerk, for repair to the highway and railroad approaches and the realignment of one highway approach of Fruitvale Ave. bridge in Alameda and Brooklyn Townships. Certified check 10% payable to county clerk required with bid. Plans obtainable from clerk on deposit of \$25, returnable. Geo. A. Posey, county surveyor.

FRESNO, Fresno Co., Calif.—Until Oct. 17, 2 P. M. bids will be received by D. M. Barnwell, county clerk, to construct a combination concrete and wooden bridge across the channel of the C and K Canal at Centerville. Certified check 10% payable to Chairman of the Board of Supervisors re-

quired with bid. Plans obtainable from Chris P. Jensen, county surveyor, Holland Bldg., Fresno.

MODESTO, Stanislaus Co., Calif.—Until Oct. 15, 11 A. M. bids will be received by C. C. Eastin, county clerk, to construct reinforced concrete bridge No. 372 over Hood Creek in Section 17, T. 1 N., R. 11 E., together with earth fill approaches and construction of temporary roadways around proposed structure. Certified check 10% required with bid. Plans obtainable from J. H. Hoskins, county surveyor, at Modesto.

WILLOWS, Glenn Co., Cal.—J. W. Halterman, Willows, at \$2,483 awarded contract by W. E. Sale, county clerk, to construct reinforced concrete bridge known as Mehren's Bridge, 3 miles west of Artois.

Following is a complete list of bids:	
J. W. Halterman, Willows	\$2,483
John Berlinger, Orland	2,986
A. F. Remter, Artois	3,247
Thos. Polk, Chico	3,373
McKenzie, Gerber	3,700
F. H. Neilson, Orland	3,965

SANTA CRUZ, Santa Cruz Co., Cal.—Until October 7, 2:30 P. M., bids will be received by H. E. Miller, county clerk, to construct reinforced concrete arch bridge in San Lorenzo Road District over Boulder Creek at north end of Central Ave. in town of Boulder Creek. Will be 91-ft. long with 61-ft. span; 30-ft. wide with 4-ft. walks on either side. Certified check 10% required with bid. Plans obtainable from County Surveyor Lloyd Bowman on deposit of \$5, returnable.

OAKLAND, Cal.—W. W. Hayes, 627 Call Bldg., San Francisco, at \$50,774.04 awarded contract by county supervisors to construct 2 concrete bridges across Crandall Slough between Alvarado and Centerville, involving:

500 cu. yds. excavating for struc. below bridge, \$4.00	
5,500 cu. yds. excavating for struc. above bridge, \$2.00	
1,800 cu. yds. grading, \$.55	
14,000 sq. ft. 8-in. W. B. macadam, \$.12	
1,570 cu. ft. concrete, \$18.42	
267,000 lbs. reinf. steel, \$.0395	
200 lin. ft. 12-in. corr. iron pipe, \$2.10	
remove existing bridge and a clear site, etc. (complete) \$3.685	

SANTA ANA, Orange Co., Cal.—Until October 24, 11 A. M., bids will be received by county supervisors to construct combination wood and steel truss bridge over Santiago Creek in Santiago Bldg. Certified check or bond 5% required with bid. Plans obtainable from Nat Neff, county superintendent of highways, on a deposit of \$5, returnable.

STOCKTON, San Joaquin Co., Cal.—J. C. Fitzsimmons, Lodi, at \$3535 submitted low bid to county supervisors to construct a steel and timber bridge over Little John Creek on the Van Allen Road. Complete list of bids follows:

J. C. Fitzsimmons	\$3535
A. Love	3680
John Hackman	3750
Nelson Bros.	3775
L. Ubel	3830
C. E. Cotten	4343

STOCKTON, San Joaquin Co., Cal.—J. C. Fitzsimmons, Lodi, at \$3,535 awarded contract by county supervisors to construct a steel and timber bridge over Little John Creek on the Van Allen Road.

SANTA BARBARA COUNTY, Cal.—Until October 10, 2 P. M., bids will be received by L. H. Gibson, district engineer, State Highway Commission, Bank of Italy, San Luis Obispo, to construct timber bridge consisting of six 19-ft. spans and two 18-ft. spans on pile bents to bridge gap in existing structure across Santa Maria river, near Santa Maria. Certified check 10% required with bid. Plans obtainable from engineer.

MERCED, Merced Co., Cal.—Until October 15, 11 A. M., bids will be received by P. J. Thornton, county clerk, to construct bridges as follows:

Bridge No. 210—Concrete-over canal on Centenella Road, Road District No. 4 and 5.

Bridge No. 211—Timber-over Black Rascal creek on Bartholomew Road in Road District No. 1.

Bridge No. 212—Concrete-over Warren Ingomar Road in Sec. 3, Twp. 9, S. R. 10 E., Road District No. 4.

Bridge No. 213—Concrete-over Duck Slough on Tuttle Road, in Sec. 7, Twp. 8, S. R. 15 E., Road District No. 2.

Bridge No. 214—Timber-over Rosa Slough on Dos Palos Road, Road District No. 5.

Bridge No. 215—Timber-over Irrigation canal on Lone Willow Road, Road District No. 5.

Bridge No. 216—Timber-over canal in Lone Willow Road, Road District No. 5.

Bridge No. 217—Concrete pipe culverts on North Branch of Mariposa Creek on Tuttle Road, Road District No. 2.

Certified check 10% payable to Chairman of the Board of Supervisors required with bid. Plans obtainable from W. E. Bedesen, county surveyor, Shaffer Bldg., Merced, on deposit of \$10, returnable.

DREDGING, HARBOR WORKS & EXCAVATIONS

RIO VISTA, Solano Co., Cal.—Until October 10, 3 P. M., under Circular Proposal No. 31-ST, Specifications 2467-1708, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, to furnish, deliver and place rip-rap stone along the Sacramento river in the vicinity of Rio Vista. Specifications obtainable from above.

BAKERSFIELD, Kern Co., Calif.—Howard Gilkey, landscape engineer, 337 17th St., Oakland, has submitted plans to county supervisors for development of the Kern River Park, including the construction of a lake which would involve moving of approximately 100,000 cu. yds. earth for construction of levees and embankments. Water supply will probably be secured from a higher level of the river, with a 1700-ft. pipe line to supply the lake with 10 second feet of water. The estimated cost of constructing the lake and basin is \$20,000.

NEWPORT BEACH, Orange Co., Cal.—Application has been made to U. S. Engineer Office at Los Angeles by the City of Newport Beach for a permit to construct groins on the southeasterly sides of 36th, 38th and 40th Sts., Newport Beach, and to extend seaward distances of approximately 80, 110 and 135 ft., respectively.

MARYSVILLE, Yuba Co., Cal.—Hemstreet & Bell, Marysville, at 28c cu. yd. submitted low bid to U. S. Engineer Office, Sacramento, to construct levee 8700 lin. ft. in length on the Feather river.

SAN FRANCISCO—Bureau of Engineering, Department of Public Works, 3rd floor, City Hall, preparing plans for repairs and construction of boat channel at Mills Field Municipal Airport.

OAKLAND, Cal.—American Dredging Co., 255 California St., San Francisco, at 23½c cu. yd. submitted low bid to City Port Commission for dredging in front of Market and Grove St. piers on Inner Harbor. Pacific Coast Dredging Co., 112 Market St., San Francisco, only other bidder at 38½c. Taken under advisement.

REDWOOD CITY, San Mateo Co., Cal.—Surveys are being made by local experts in connection with the proposed development of the Redwood City harbor. Among those who will investigate the feasibility of the project are Francis Betts Smith, engineer, 58 Sutter St., San Francisco; Fred Parr of the Parr Terminals, and Colonel Robbins, acting district engineer for the War Department in San Francisco. The latter's interest in the survey is non-official.

OAKLAND, Cal.—Until October 6, bids will be received by City Port Commission, 424 Oakland Bank Bldg., for dredging at Ninth Avenue Pier, involving 16,000 cu. yds. clam shell work. Specifications obtainable from above office.

STREET LIGHTING SYSTEMS

GUSTINE, Merced Co., Cal.—Frank Silvera, Gustine, at \$5231 awarded contract by city trustees to install 37 electroliers together with underground system in Fifth St. Standards will be hollow spun granite type, 16 ft. 5 inches high.

SAN FRANCISCO—Street & Lighting Committee of the Board of Supervisors will recommend advertising for bids in the immediate future to furnish 600 metal street lighting standards and 300 concrete standards for installation of new boulevards already completed or in the course of construction. Estimated cost \$160,000.

WOODLAND, Yolo Co., Calif.—City council abandons proceedings to install an ornamental street lighting system; estimated cost \$150,000. The project was abandoned due to protests of property owners.

MACHINERY AND EQUIPMENT

STOCKTON, San Joaquin Co., Cal.—Until October 20, 11 A. M., bids will be received by Eugene Graham, county clerk, for repairs to patrol boat. Plans on file in office of clerk.

SAN FRANCISCO—City Purchasing Agent, Leonard S. Leavy, 270 City Hall, directed by Board of Public Works to ask bids to furnish and deliver one concrete mixer.

OAKLAND, Calif.—City council awards contracts as follows for motor trucks for use of City Street Department:

McGurrin Motors, 3300 Broadway, Oakland, two Type A heavy duty at \$2568.75 and \$2768.75; two Type B at \$3111 each; three Type C at \$2950 ea. Mack International Motor Truck Corp., 1092 E 12th St., Oakland; one Type D at \$4688.25.

Pagel Motors Co., Hollywood Blvd. at 107th Ave., Oakland; one Type G at \$1625.

White Motor Truck Co., E 12th St. and 5th Ave., Oakland, one Type I at \$4531.50.

OAKLAND, Cal.—Spears-Wells Road Machinery Co. submitted low bid to city council at \$9,000 to furnish two gasoline rollers for Street Department. Taken under advisement.

OAKLAND, Cal.—Spears Wells Road Machinery Co. at \$4500 each, awarded contract by city council to furnish and deliver two gasoline rollers for use of City Street Department.

PANAMA CANAL—Until October 15, 10:30 A. M., under Schedule No. 2594, bids will be received by Purchasing Officer, Panama Canal, Washington, D. C., to furnish and deliver among other supplies:

- (1) Rock Crushing Plant;
- (2) Power Drag Scraper;
- (3) Trucks;
- (4) School Busses;
- (5) Grinding Machines;
- (6) Wheelbarrows.

Further information obtainable from Assistant Purchasing Agent, Fort Mason, San Francisco.

HEMET, Riverside Co., Cal.—Until October 13, 7:30 P. M., bids will be received by C. M. Dieterich, city clerk, to furnish and deliver:

- (a) one 20-hp. tractor;
- (b) one road grader with 8-ft. blade;
- (c) one road maintainer with 6 rigid blades.

Prices to include delivery f.o.b. Hemet. Further information obtainable from clerk.

FIRE EQUIPMENT

ANTIOCH, Contra Costa Co., Cal.—City Council has authorized the purchase of an inhalator with six oxygen tanks for the Fire Department.

HEMET, Riverside Co., Cal.—Until 7:30 P. M., Oct. 13, bids will be received by the city council for the following fire apparatus:

1. One motor propelled triple combination pumping engine and hose car and
- (2) 2000 ft. of fire hose, which proposals will be opened publicly at the hour of 7:30 o'clock P. M., Oct. 13, 1930.

The proposals are requested for said engine and equipment as follows:

Item 1. One motor propelled triple combination pumping engine of 500 gallons per minute capacity with water booster tank of not less than 80 gallons capacity.

Item 2. 1500 ft. of 2½-in. No. 1 double jacket hose, Pacific coast thread; 500 ft. of 1½-in. No. 1 double jacket hose, Pacific coast thread, or of 1500 ft. of 2½-in. No. 2 double jacket hose, Pacific coast thread, and 500 ft. of 1½-in. No. 2 double jacket hose, Pacific coast thread. All hose to be in 50-ft. lengths with couplings.

Bidders must quote price for delivery f.o.b. city of Hemet, which price shall include complete installation of all equipment on the engine.

Each bidder must attach to his proposal and make a part thereof specifications which must contain detailed

descriptions and which must be in accordance with the general specifications on file in the office of the city clerk. C. M. Dieterich, city clerk.

RESERVOIRS AND DAMS

WHITTIER, Los Angeles Co., Cal.—All bids for constructing a 10,000,000-gal. concrete lined reservoir (received Sept. 22) were rejected by the city council. The work will probably be done by the city under the direction of the chief engineer, M. R. Bowen.

PHOENIX, Ariz.—The Verde River & Irrigation & Power District has been granted permit by the Department of the Interior to construct an impounding dam 265 ft. high to impound 950,000 acre feet at Camp Verde. Authorization for power plant, canals, laterals, etc., was made several months ago. John G. Bailhache is general manager and chief engineer.

ALBUQUERQUE, N. M.—Construction work on the El Vado dam, to be built across the Rio Chama by the Middle Rio Grande Conservancy District, will start early in 1931, according to an announcement by the officials of the district. The dam will be located near the townsite of El Vado and is to be 172 ft. high, 1375 ft. long, with a thickness of 77 ft. at the bottom and 20 ft. at top. The reservoir will have a capacity of 200,000 acre feet and two heavily reinforced concrete pipes will be constructed in the river bed, which will serve for outlets for the irrigation water. The estimated amount of cement to be used is 170,000 sacks, together with 1,000,000 pounds of metal work and 2,000,000 pounds of reinforcing steel. Gravel and rock for the body of the dam will total 350,000 cu. yds. and excavation will involve 100,000 cu. yds. The cost will be \$1,500,000. This will be the only storage reservoir of the Middle Rio Grande system. Other dams will be constructed but they will be merely diversion dams. The state has already issued the conservancy district a permit to build the dam and in cooperation with the district the state highway department is building a 13-mile road from Tierra Amarilla to the damsite. J. L. Burkholder, Albuquerque, is chief engineer of the Middle Rio Grande Conservancy District.

PIPE LINES, WELLS, ETC.

OAKLAND, Cal.—Informal bids are being received by City Port Commission, 424 Oakland Bank Bldg., to furnish cast iron casing for dredge pump; estimated cost, \$850. Further information obtainable from above.

TIDEWATER, San Luis Obispo Co., Cal.—General Petroleum Corp. is planning to construct an oil pipe line from the Kettleman Hills to Tidewater at Morro Bay at an estimated cost of \$15,000,000. The company has purchased 576 acres at Morro Bay for a tank farm.

FAIR OAKS, Sacramento Co., Cal.—Until October 11, bids will be received by Fair Oaks Irrigation District to furnish and deliver riveted or welded steel split-joint pipe, as follows:

- 2,000-ft. 30-in. 8-gauge.
- 2,000-ft. 30-in. 10-gauge.
- 2,000-ft. 12-in. 12-gauge.

Specifications and further information obtainable from secretary of district at Fair Oaks.

PACIFIC COAST—Thebo, Starr & Anderson, engineers and contractors,

Sharon Bldg., San Francisco, have contract to construct pipe lines, cast iron and welded steel, together with other appurtenant structures in connection with natural gas supply system to serve various communities from the Canadian border to Mexico, for the Natural Gas Corporation of Washington, Oregon and California. For labor in connection with the project, sub-contractors have been awarded to Hutchinson Co., 1450 Harrison St., Oakland, and Lindgren & Swinerton, Inc., 225 Bush St., San Francisco. The amount of work to be undertaken during the present year will involve an expenditure of \$3,500,000. The construction program will extend over a period of from three to five years.

SEWERS AND SEWAGE DISPOSAL PLANTS

SAN FRANCISCO—T. E. Connolly, 461 Market St., at \$251,617 awarded contract by Board of Public Works to construct Section K of the College Hill Sewer, (reinforced concrete) extending from the Mission Viaduct to Valencia and Army Sts. Complete list of the unit and total bids previously published.

MT. VERNON, Wash.—Until Oct. 10 bids will be received by E. Crookston, city clerk, to construct sewer system, involving approx. 4 miles of pipe, as follows:

4500 ft. 6-in. pipe.
3500 ft. 8-in. pipe.
1500 ft. 10-in. pipe.
2200 ft. 12-in. pipe.
4300 ft. 15-in. pipe.
3100 ft. 18-in. pipe.
500 ft. 18-in. pipe in tunnel or deep trench.
1800 ft. 21-in. pipe.
375 ft. 24-in. pipe.
460 ft. 30-in. pipe.

Alternate bids will be asked on concrete and tile pipe.

In addition to the above the project will include cast iron pipe as follows: 660 ft. 20-in.
70 ft. 30-in.
180 ft. 18-in.

Other units consist of 27 catchbasins, 17 manholes, reinforced concrete pump houses with four pumps and dry well and sewage pumps.

Plans on file in office of clerk and obtainable from C. E. Dorisy, consulting engineer, Republic Bldg., Seattle.

WATSONVILLE, Santa Cruz Co., Cal.—Until October 7, 7:30 P. M., bids will be received by M. M. Swisher, city clerk, to construct approximately 1,045-ft. 6-in. sewer in Monte Vista Ave. Certified check 10% payable to mayor required with bid. Plans obtainable from H. B. Kitchen, city engineer.

SANTA MONICA, Los Angeles Co., Cal.—Plans have been completed for 18-in. main sewer in Colorado Ave., bet. 20th and 2nd Sts., involving 18-in. double strength vitrified pipe, a total of approximately 7200 lin. ft. Howard B. Carter, city engineer.

ALHAMBRA, Los Angeles Co., Cal.—Until 9 A. M., Oct. 7, bids will be received by the city commission for constructing an ornamental lighting system with posts, conduits, wires, etc., in San Marino Ave. from Sixth St. to Garfield Ave.; Shorb St., from Sixth St. to Garfield Ave.; Second St., from San Marino Ave. to Valley Blvd.; Third St., from San Marino Ave. to Valley Blvd.; Fourth St., from San Marino Ave. to Valley Blvd.; Fifth St., from San Marino Ave. to Valley Blvd.; and Sixth St., from San Marino Ave. to Valley Blvd. Act of 1911. R. B. Wallace, city clerk. Otto N. Rugen, city engineer.

LOS ANGELES, Cal.—A \$6,000,000 city sewer bond issue will be placed on the ballot No. 4. The proceeds will be used for construction within a period of five years as follows: (1) Improvements to city drainage districts, \$3,300,000; (2) central outfall construction, \$100,000; (3) collection system, Harbor District, \$309,140; (4) sewage treatment, \$1,152,600; (5) sewer system in San Fernando valley, \$1,000,000; (6) sewage treatment in San Fernando valley, \$100,000; (7) Hyperion plant, \$275,000.

REDWOOD CITY, San Mateo Co., Cal.—Bids will be asked by the county supervisors within the next 30 days to construct outfall sewer system to serve portions of South San Francisco, San Bruno, Lomita Park and Capuchino, into San Francisco Bay; estimated cost, \$120,500. Project involves:

Vitrified Salt Glazed Sewer Pipe
2,700 lin. ft. 4-in.
100 lin. ft. 6-in.
5,300 lin. ft. 8-in.
6,900 lin. ft. 10-in.
9,300 lin. ft. 12-in.
1,400 lin. ft. 15-in.
8,400 lin. ft. 18-in.
3,150 lin. ft. 21-in.
Cast Iron Pipe Sewer
96 lin. ft. 8-in.
3,420 lin. ft. 10-in.
144 lin. ft. 12-in.
3,150 lin. ft. 14-in.
120 lin. ft. 18-in.

Vitrified Salt Glazed Wyes
60 8x4-in.
120 10x4-in.
140 12x4-in.
60 15x4-in.
130 manholes.
23 M. ft. b.m. redwood pile trestle.
2 pump pumps.
2 pump houses.
4 air and vacuum valves.
4 pressure air valves.
4 400 GPM pumps, complete.
2 400 GPM pumps, complete.
Project will be known as Acq. and Imp. District No. 21. R. A. Klassen, engineer, Redwood City.

BRAWLEY, Imperial Co., Cal.—City council will call election shortly to vote bonds to finance construction of extensions to sewer system. Amount of issue not yet determined.

BERKELEY, Alameda Co., Calif.—W. J. Tobin, 527 Balfour Ave., Oakland, at \$2,506 awarded contract by city council to construct sewer in The Alameda, San Pedro Ave. and Laurel Lane.

WATER WORKS

SAN BRUNO, San Mateo Co., Cal.—John Pestana, 1222 35th Ave., Oakland, at \$313.01 awarded contract by city trustees to construct extension to Municipal Water System in the Fifth Addition.

SAN FRANCISCO—Finance Committee of the Board of Supervisors recommends appropriation of \$26,700 to finance re-location of water mains in South San Francisco area, due to construction of Bayshore Highway.

LONG BEACH, Cal.—U. S. Pipe & Foundry Co., Los Angeles, at \$73,800 submitted low bid to city council to furnish cast iron pipe, as follows: (a) 18,000 ft. 4-in., \$7200; (b) 54,000 ft. 8-in., \$41,550; (c) 18,000 ft. 12-in., \$24,750. Other bids were: American C. I. Pipe Co. (a) \$7290; (b) \$42,390; (c) \$25,020. Pacific States C. I. Pipe Co. (a) \$7335; (b) \$42,660; (c) \$25,200. National C. I. Pipe Co. (a) \$7560; (b) \$42,120; (c) \$25,020.

Taken under advisement.

PALO ALTO, Santa Clara Co., Cal.—See "Government Work and Supplies," this issue. Bids wanted for one 1250-gal. per hour water softener for U. S. Veterans' Hospital.

CARMEL, Monterey Co., Cal.—C. G. Gillespie, state sanitary engineer, recommends to city trustees installation of a settling basin and a complete filtration plant for the municipal water system. Estimated cost \$40,000.

LONG BEACH, Cal.—Pittsburgh Equitable Water Co., submitted low bid to the city manager at \$8.45 each for water metres. Other bids were: Neptune Metre Co., Lambert, \$8.675, Trident, \$9.675; Madger Metre Co., \$8.90; Worthington Co., \$9.

SAN DIEGO, Calif.—City Hydraulic Engineer H. N. Savage has announced that plans are under consideration for tapping the Imperial Irrigation District canals to provide an additional 20,000,000 gallons daily water supply.

BRAWLEY, Imperial Co., Calif.—Second election will be called by city council to vote bonds of \$100,000 to finance construction of extensions to water system and installation of filtration plant. Previous election was defeated.

TORRANCE, Los Angeles Co., Cal.—The \$400,000 bond issue of Municipal Improvement District No. 1 for water supply and distribution system, carried at the election Sept. 25. The estimated cost of the construction, etc., is \$381,000. The proposed improvement work is the acquisition and construction of a water producing and distributing system, including wells, pumps, tanks, reservoirs, distribution mains, and land, rights of way, and easements therefor, and all other necessary equipment and appurtenances for a complete water producing, purifying and distributing system, for the sale of water for domestic, agricultural, industrial and other uses. F. R. Leonard is the engineer.

OCEANSIDE, San Diego Co., Cal.—Until October 22, bids will be received by city council to construct extension to water system in south section of city; estimated cost \$22,000. Plans obtainable from R. L. Loucks, city engineer.

DENVER, Colo.—Until October 6, 3 P. M., bids will be received by U. S. Reclamation Service, to furnish and deliver c. i. bell and spigot pipe with fittings, including lead and jute for joints, to make up the pipe line from station 0+00 to station 15+60, complete as follows:

(a) 1566 ft. 8-in. inside diameter cast iron bell and spigot pipe. Total laying length including fittings and specials. Bidder state whether centrifugally cast or sand cast.
(b) 8-in. inside diameter cast iron bell and spigot pipe bends as follows: 2 22½ degree; 4 11¼ degree.
(c) 1 8-in. flanged wedge gate valve, rising stem, bronze mounted, faced and drilled, for 125 lbs. water pressure, with 2-ring gaskets and 2 sets flange bolts.
(d) 1 8-in. flanged fish-trap. Trident or equal, with 1-ring gasket and 1 set flange bolts.
(e) 2 8-inch diameter by 20-in. length cast iron pipe, one end with standard A. S. M. E. flange, faced and drilled, one end with spigot.
(f) 2 8-in. inside diameter cast iron adapters, one hell end to fit 8-in. i. bell and spigot pipe, one end to fit 8-in. inside diameter wood stave pipe. Lump sum price for all materials under Item a.

BEVERLY HILLS, Los Angeles Co., Cal.—Until October 21, 8 P. M., bids will be received by city council to furnish and install 2,610 ft. 6-in. and 8-in. cast iron pipe. Specifications obtainable from Salisbury, Brawshaw & Taylor, Petroleum Securities Bldg., Los Angeles.

HAWTHORNE, Nev.—Brooks Company of California, Inc., Los Angeles, at \$53,482 awarded contract by Bureau of Yards and Docks, Navy Department, for irrigation system in connection with Naval Ammunition Depot at Hawthorne, Nevada.

HAYWARD, Alameda Co., Calif.—Castro Valley County Water District proposes to vote bonds of \$150,000 to finance installation of water mains and equipment to connect up with the East Bay Municipal Utility District system.

OAKLAND, Cal.—A complete tabulation of the total and unit bids received by the East Bay Municipal Utility District to furnish approximately 2,022 tons of cast iron pipe, ranging from 4-in. to 6-in. diameter, bell and spigot, will be found on page five of this issue.

OAKLAND, Calif.—American Brass and Copper Supply Co., 523 4th St., Oakland, at \$1355 per foot or \$6,775 submitted low bid to East Bay Municipal Utility District to furnish and deliver 50,000-ft. of 3-inch seamless copper tubing. Complete list of bids follows:

American Brass & Foundry Co., Oakland	\$1,355
*Crane Co., Oakland	.146
Ducommun Corp., S. F.	.1489
Water Works Supply Co., S. F.	.1489
Chase Brass & Copper Co., Inc., Oakland	.1489
Tay-Holbrook, Inc., Oakland	.1490
**Mueller Co., San Francisco	.154

*1% cash discount on or before 10th of month following date of purchase.
 **30 days Net. 1% cash, 10 days.

Bids taken under advertisement until October 3.

PLAYGROUNDS & PARKS

SARATOGA, Santa Clara Co., Cal.—Saratoga Tennis Club plans immediate construction of three new tennis courts. The late Senator Jas. D. Phelan left the club \$2500 for this purpose to which additional monies have been added by private subscription.

BAKERSFIELD, Kern Co., Calif.—Howard Gilkey, landscape engineer, 337 17th St., Oakland, has submitted plans to county supervisors for development of the Kern River Park, including the construction of a lake which would involve moving of approximately 100,000 cu. yds. earth for construction of levees and embankments. Water supply will probably be secured from a higher level of the river, with a 1700-ft. pipe line to supply the lake with 10 second feet of water. The estimated cost of constructing the lake and basin is \$30,000.

STREETS AND HIGHWAYS

OAKLAND, Cal.—Until October 9, 2 noon, new bids will be received by Frank C. Merritt, city clerk, to improve portions of Marguerite Drive and Hill View Lane, involving grading; gutters; pave.; cement walks; conc. gutters; storm water drain. 1911 Act. Previous bids rejected due to failure of lowest bidder to sign bid. Certified check 10% payable to city required with bid. Plans on file in office of clerk. Walter N. Frickstad, city engineer.

SAN FRANCISCO—Bureau of Engineering, Department of Public Wks, 3rd floor, City Hall, making surveys for new highway connecting Divisadero and Castro Sts., the construction to extend over a period of three or four years; estimated cost \$150,000. This highway is planned in anticipation of heavy traffic originating from the Golden Gate bridge.

SACRAMENTO, Cal.—J. R. Reeves, 2331 30th St., Sacramento, at \$6,963.00 awarded contract by county supervisors to construct road from Sacramento city limits to American River bridge.

BUTTE COUNTY, Cal.—C. Mankel, Sacramento, at \$4470 awarded contract by State Highway Commission to furnish and apply oil on 5 miles, between Chico and county boundary.

COLUSA COUNTY, Cal.—H. Sykes, Patterson, at \$4665 awarded contract by State Highway Commission to furnish and apply fuel oil on 5 miles between Arbuckle and Geneva.

MENLO PARK, San Mateo Co., Cal.—City trustees declare intention (30-2) to improve Hoover St., for its entire length and Oak Grove Ave., from point 45 ft. s. w. of Hoover St. to pt. 45 ft. s. e., and Valparaiso Ave. from pt. 45 ft. s. w. of Hoover St. to pt. 45 ft. n. e., involving grading; cem. conc. curbs and walks; part circle galv. iron culverts; 4-in. waterbound rock macadam base pavement with 1½-inch Colas surface; vit. salt glazed pipe sewer laterals. 1911 Act, Bond Act 1915. Hearing October 7. Fannie I. Kurtz, city clerk.

PACIFIC GROVE, Monterey Co., Cal.—Clark & Henery Construction Co., Chancery Bldg., San Francisco, awarded contract by city council (3233) to improve Junipero Ave. bet. Forest Ave. and east city limits, involving grading; conc. curbs and gutters; asph. conc. pave.; storm drains; conc. catchbasins.

YOLO COUNTY, Cal.—Harms Bros. Galt, at \$4,216 awarded contract by State Highway Commission to furnish and apply oil on 5.6 miles between Cache Creek and Camara.

OAKLAND, Cal.—Central California Roads Co., 28th and Poplar Sts., Oakland, at \$41,602 awarded contract by city council to widen and repave E. 12th St. from 1st to 13th Aves., involving 6-in. concrete base, 2-in. asphaltic concrete surface, 23c sq. ft.

OAKLAND, Cal.—City council declares intention (1771) to improve portions of Hampton Road, Liggett Drive, Estates Drive, Sims Drive and Pershing Drive, involving grading; curbs and pave.; storm water drainage system; conduit. Estimated cost, \$38,090.20. Imp. Act 1913. Hearing October 30. Frank C. Merritt, city clerk. Walter N. Frickstad, city engineer.

BAKERSFIELD, Kern Co., Cal.—Until October 14, 11 A. M., bids will be received by F. E. Smith, county clerk, to place 4000 square feet of concrete landing and 821.2 square feet of concrete walks at the airport. Certified check 10% payable to Chairman of the Board of Supervisors required with bid. Plans on file in office of clerk.

SACRAMENTO, Cal.—E. F. Hilliard 1355 43rd St., Sacramento, at \$14,209.50 awarded contract by county supervisors to construct shoulders on Sacramento river road.

WILLOW GLEN, Santa Clara Co., Cal.—City council has started proceedings to widen Willow Street and open Kottenberg and Blewett Avenues; estimated cost \$70,000. Will involve curbs, walks, asphalt pavement. Work under Matton Act.

OAKLAND, Cal.—City Engineer W. N. Frickstad preparing plans to improve streets in County Club Manor, involving sewers, curbs, gutters, paving. Streets included are: Sarazen, Espinosa, Turnesa, Plintridge, Midwick and Castlewood and portions of Oak Knoll Blvd., Golf Links Rd. and Jones and Encina Aves.

OAKLAND, Cal.—City council rejects bids to improve (a) Plymouth St., bet. 99th Ave. and Cherry St., and (b) portions of Hermosa Ave. and Broadway Terrace. Bids considered too high. The projects will be re-advertised. Walter N. Frickstad, city engineer.

ANTIOCH, Contra Costa Co., Cal.—Proceedings will be started shortly by the city council for paving approximately 10 blocks in the old city limit area and for an equal amount of work in the Wills Addition, property owners having petitioned for the work. E. L. O'Hara is city engineer.

SAN FRANCISCO—California Construction Co., Standard Oil Bldg., at \$37,890 awarded contract by Board of Public Works to construct Section D of the Sunset Boulevard between Noriega and Irving Sts. with connections to Lincoln Way. Complete list of unit and total bids previously published.

AMADOR COUNTY, Calif.—Yglesias Bros., 500 Spreckels Theatre Bldg., San Diego, at \$149,461.50 awarded contract by State Highway Commission to grade and surface with untreated crushed gravel or stone, 4.3 miles between Amador City and Martell. Complete list of the unit and total bids received on this project published in Sept. 23 issue.

OAKLAND, Cal.—Heafey-Moore Co., 344 Hight St., Oakland, awarded contract by city council to improve portions of Ballard Ave., involving excavation, \$.85 cu. yds.; concrete curb, \$.75 lin. ft.; concrete gutter, \$.25 sq. ft.; 2-in. asph. conc. surface, 3-inch asph. conc. base pavement, \$.20 sq. ft.

SANTA CRUZ, Santa Cruz Co., Cal.—Granite Const. Co., Watsonville, at \$3,344.38 awarded contract by county supervisors for oil macadam paving in portions of East Cliff Drive and 17th Avenue.

LOS ANGELES COUNTY, Cal.—Until Oct. 22, 2 P. M., bids will be received by State Highway Commission for clearing 5.3 miles between 4 miles north of La Canada and Colby Canyon. C. H. Purcell, state highway engineer.

See call for bids under official proposal section in this issue.

IMPERIAL COUNTY, Calif.—Until October 22, 2 P. M., bids will be received by State Highway Commission to grade and pave with asphalt concrete 13.1 miles between Arroyo Salado and the northerly boundary. C. H. Purcell, state highway engineer.

See call for bids under official proposal section in this issue.

SAN FRANCISCO—Bureau of Engineering, Department of Public Wks, 3rd floor, City Hall, completes plans and bids will be asked shortly for grading Section A of the Alameda Boulevard project, from Mission St. to Bay Shore Blvd.

SAN FRANCISCO.—Bureau of Engineering, Department of Public Wks., City Hall, estimates cost of widening Van Ness Ave. between Market and California St. by reducing sidewalks at \$60,000. Proposed to widen the street 12 feet.

SANTA CRUZ, Santa Cruz Co., Cal.—Granite Const. Co., Watsonville, at \$31,975 awarded contract for all macadam paving on Sequel-San Jose rd.

STOCKTON, San Joaquin Co., Cal.—Clark & Henery Construction Co., Chancery Bldg., San Francisco, at \$38,871 submitted low bid to county supervisors to pave Lower Sacramento Road from Acampo to Forest Lake on that portion of the San Joaquin County Highway system in Road District No. 2. Complete list of bids follows:

Clark & Henery.....	\$38,871
C. W. Wood, Stockton.....	43,531
Valley Paving & Constr. Co., Visalia.....	50,178
Project involves:	
325,000 sq. ft. subgrade;	
32,800 lin. ft. headerboard;	
6,600 tons asph. concrete;	
125 tons finishing coat.	

STOCKTON, San Joaquin Co., Cal.—Geo. French Jr., P. O. Box 675, Stockton, at \$16,402 submitted low bid to county supervisors to improve subdivision road in the vicinity of Stockton, on that portion of the San Joaquin Highway System in Road District No. 1, involving approximately 10 miles of graveling and oiling. Complete list of bids follows:

George French, Jr.....	\$16,402
Perierra & Reed.....	16,553
Louis Moreing.....	18,683
C. W. Wood.....	18,270

SAKERSFIELD, Kern Co., Cal.—City Council declares intention (968) to improve alley north and south through block 166, between 22nd and 43rd Sts., alley through blocks 153, 26, 113, 487, 514, 527, 114, 486, each one block long, involving 5-inch concrete pavement, certain 8-inch sewers, manholes, some walk and curb; under 911 Act and 1915 Bond Act. Hearing Oct. 13. V. Van Ripper, city clerk.

SAN FRANCISCO.—Specifications are being prepared by the Bureau of Engineering, Department of Public Works, 3rd Floor, City Hall, for improvements to relieve traffic conditions in Presidio Ave., between Post and Geary Sts. and in Geary St., between Presidio and Masonic Aves.

COLUSA COUNTY, Calif.—As previously reported, D. McDonald, 1118 G St., Sacramento, at \$95,140 submitted low bid to State Highway Commission to surface with gravel base, 8.1 miles between Williams and Maxwell, involving 71,000 cu. yds. Following is D. McDonald, 1118 G St., Sacto.—\$134 complete list of unit bids received:

B. R. Dennis Const. Co., San Di-	ego.....	1.44
Basich Bros., Torrance.....		1.57
C. W. Wood, Stockton.....		1.60
F. Anderson, Oakland.....		1.69
L. Compton, McMinnville, Ore.....		1.70
Mangel, Sacramento.....		1.71
Temstreet & Bell, Marysville.....		1.72
Frederickson & Watson, Oakland.....		1.80
W. J. Willard & Blasotti, Stock-	ton.....	1.84
W. Telchert & Son, Sacto.....		1.84

SACRAMENTO, Cal.—County supervisors will ask bids shortly for asphalt concrete pavement in 65th St., the work to be financed from the 4th District Road Fund. Chas. Deterding, county engineer.

SAN MATEO COUNTY, Cal.—Basich Bros., Torrance, at \$89,162 awarded contract by State Highway Commission to grade and pave with Portland cement concrete, 0.9 mile through South San Francisco.

SAN FRANCISCO.—Bureau of Engineering, Department of Public Wks., 3rd floor, City Hall, preparing plans for paving in connection with Mills Field Municipal Airport.

BERKELEY, Alameda Co., Cal.—L. C. Seidel, 680 14th St., Oakland, at \$26,875.50 awarded contract by city council (651) to improve portions of La Loma Ave. and Glendale Ave. involving grading; paving with oiling macadam and portions to be remacadamized; conc. curbs and gutters, concrete walls, walks and steps, rubble masonry walls, highway fences; catchbasins; corr. iron pipe culverts and vit. sewer.

LOS ANGELES COUNTY, Calif.—Following three low bids received Oct. 1 by State Highway Commission to grade and pave with Portland cement concrete 1 mile at Castaic Creek: Carpenter Bros., Inc., Beverly Hills.....\$50,545
Gist & Bell, Arcadia.....\$1,799
J. F. Knapp, Oakland.....\$1,945

TRINITY COUNTY, Cal.—H. H. Boomer, Mills Bldg., San Francisco, at \$21,476 awarded contract by State Highway Commission to grade 0.8 mile between west boundary and Burnt Ranch.

STOCKTON, San Joaquin Co., Cal.—Geo. French, Jr., P. O. Box 675, Stockton, at \$16,402 awarded contract by county supervisors to improve subdivision road in the vicinity of Stockton, on that portion of the San Joaquin Highway System in Road Dist No. 1, involving approx. 30 miles of graveling and oiling.

SAN FRANCISCO.—E. J. Treacy, Call Bldg., at \$3,962 submitted low bid to Board of Public Works to construct sidewalks and walls in Grand View Ave. bet. north and south intersections with Market St. Complete list of bids follows:

E. J. Treacy.....	\$3,962
M. J. Lynch.....	4,510
G. A. Love & Sons.....	4,574
J. M. Smith.....	4,602
C. C. and H. W. Haun.....	4,937
C. Harney.....	5,110
M. Bertolino.....	7,696

EL DORADO COUNTY, Cal.—C. E. Force, Piedmont, at \$38,999 awarded contract by State Highway Commission to grade and surface with untreated crushed gravel or stone, 1.7 miles between Clark's Corner and Placerville.

COLUSA, Colusa Co., Cal.—D. McDonald, 1118 G St., Sacramento, at \$134 cu. yd. (95,140) awarded contract by State Highway Commission to surface with gravel base, 8.1 miles between Williams and Maxwell, involving 71,000 cu. yds.

BASICH BROTHERS LOW ON SAN MATEO HIGHWAY UNIT

SAN MATEO COUNTY, Cal.—As previously reported, Basich Brothers, Torrance, at \$89,162 submitted low bid to State Highway Commission Sept. 24 to grade and pave with cement concrete 0.9 mi. through South San Francisco. Complete list of bids follows:

(A) Basich Bros., Torrance.....	\$89,162	(C) N. M. Ball, Porterville.....	\$96,660	
(B) Hanrahan Co., S. F.....	\$9,487	(D) W. A. Dontanville, Salinas.....	104,365	
	(A)	(B)	(C)	(D)
5,000 cu. yds. rdwy. excav. unclass.....	\$ 0.30	\$ 0.25	\$ 0.50	\$ 0.40
17,000 sta. yds. overhaul.....	0.02	0.01	0.02	0.01
2,670 cu. yds. strnc. excavation.....	0.80	1.25	1.25	1.35
22,500 sq. yds. subgrade for pave.....	0.09	0.10	0.09	0.10
4,700 tons crusher run base.....	1.50	1.00	1.60	2.15
910 tons asphalt concrete.....	5.60	4.50	6.50	6.00
5,950 cu. yds. class A P. C. concrete (pavement).....	7.64	7.77	8.00	8.25
990 cu. yds. class A P. C. concrete curbs, gutters, sidewalks.....	12.50	16.00	12.00	15.00
94 cu. yds. class A P. C. concrete (structures).....	17.00	16.00	17.00	20.00
169,000 lbs. bar reinf. steel (pave. and structures).....	0.0375	0.03	0.04	0.04
344 lin. ft. 16" std. reinf. conc. pipe.....	1.00	1.00	0.90	2.00
100 lin. ft. 18" do.....	1.50	1.50	1.50	2.25
1,800 lin. ft. 8" prf. met. pipe un. dr. 9 catch basins.....	1.20	1.25	1.40	1.90
1,300 cu. yds. rem. exist. P. C. conc. (pave. and structures).....	55.00	50.00	40.00	60.00
ornamental light system.....	1.00	1.00	2.00	2.00
49 sta. finish roadway.....	700.00	300.00	1000.00	450.00
	2.00	5.00	5.00	5.00

CONTRACTORS' MACHINE WORKS
SPECIALISTS ON REPAIRING AND REBUILDING OF
Bunkers, Hoppers, Chuting, Conveyors, Rollers, Mixers, Hoists,
Shovels, Tractors, Pavers, Crushers, Drag Lines, Elevators, Car
Unloaders, and other Road and Building Equipments;
BLACKSMITHING AND WELDING
Builders of Rosenberg Portable Car Unloaders
CREAR & BATES
57 Zoe St., bet. 3rd and 4th, off Brannan St.
Phone GAfield 4374
San Francisco

COLUSA COUNTY, Cal.—Following bids received Oct. 1 by C. H. Whitmore, district engineer, State Highway Commission, Sacramento, to construct 9 miles of property fence on state highway between Bear Creek and 8 miles west of Williams:
 George McDaniel, Marysville.....\$ 7,813
 Anchor Post Fence Co., S. F.....8,447
 E. C. Burnett, Turlock.....10,370
 A. Mitchell, Sacramento.....11,459
 Standard Fence Co., S. F.....11,997
 California Wire Cloth Co., S. F. 12,044
 Bids held under advisement.

- SAN FRANCISCO.**—California Construction Co., Standard Oil Bldg., at \$103,844 submitted low bid to Board of Public Works to construct Section C of the Sunset Boulevard bet. Noriega and Santiago Sts., 36th and 37th Aves. involving:
- (1) 116,700 cu. yds. excavation;
 - (2) 122,300 cu. yds. imp. borrow;
 - (3) 193,600 sq. ft. asph. mac. pave, 2½ in. asph. conc. surf. and 10-in. waterbound mac. pave;
 - (4) 48,000 sq. ft. asph. conc. pave, 2-in. asph. conc. surf., 6-inch class F conc. base;
 - (5) 160 tons asph. concrete conform pavement;
 - (6) 90,800 sq. ft. 4-in. waterbound macadam pave;
 - (7) 45,800 sq. ft. 6-in. do;
 - (8) 13,700 sq. ft. conc. sidewalk (one-course);
 - (9) 13,600 lin. ft. unarmored concrete curb;
 - (10) 100 lin. ft. (reset) conc. curb;
 - (11) 18,200 lin. ft. 2x6-in. rw. headers;
 - (12) 240 lin. ft. 15-in. V.C.P. sewer;
 - (13) 240 lin. ft. 12-in. do;
 - (14) 700 lin. ft. 10-in. do;
 - (15) 5 brick manholes, complete;
 - (16) 12 brick catchbasins, complete
 - (17) 540 lin. ft. 3-in. black pipe conduit;
 - (18) 1,600 lin. ft. 1½-in. do;
 - (19) 9,940 lin. ft. cu. yds. loam;
 - (20) 1,860 cu. yds. manure;
 - (21) 3 tons hay.

Complete list of bids follows:
 California Const. Co.....\$103,844
 J. M. Smith.....107,765
 C. H. Harney.....110,778
 Meyer Rosenberg.....111,336
 Fay Imp. Co.....119,618
 E. J. Treacy.....129,804

STOCKTON, San Joaquin Co., Cal.—Clark & Henery Const. Co., Chancery Bldg., San Francisco, at \$38,871 awarded contract by county supervisors to pave Lower Sacramento Rd. from Acampo to Forest Lake on that portion of the San Joaquin County Highway system in Road District No. 2. Project involves: 328,000 sq. ft. subgrade; 32,800 lin. ft. headerboard; 6,600 tons asph. concrete; 125 tons finishing coat.

SAN MATEO COUNTY, Cal.—Following three low bids received Oct. 1 by State Highway Commission to surface with bituminous treated crusher run base, 7.3 miles between San Mateo and Redwood City:
 Frederickson & Watson Const. Co. & Frederickson Bros.....\$120,819
 C. W. Wood, Stockton.....130,530
 N. M. Ball, Porterville.....142,337

SAN FRANCISCO.—Fay Imp. Co., Phelan Bldg., at \$2996 submitted low bid to Board of Public Works to improve Kirkham St. bet. 16th and 17th Aves. Complete list of bids follows:
 Fay Improvement Co.....\$2,996
 J. J. Tobin.....3,244
 E. J. Treacy.....3,248
 J. M. Smith.....3,340
 C. L. Harney.....3,472

ARC-WELDING ADVANTAGES IN ERECTION OF TALL BUILDINGS

Continued from page 2

1. Welded connections can, wherever necessary or desirable, be made stronger than the strongest possible riveted connections for the same purposes.

2. Welding develops highly concentrated resistance, requiring one-third or less of the space needed for rivets to transfer equal load. Therefore welded connections are more compact and require less material than riveted ones. Knee braces or gussets projecting below the beams are sometimes used in welded buildings where there is no architectural objection, but they are never needed to develop the full available strength of the members.

3. Welded joints never work loose; all deflection or drift is due solely to elastic deformation of the framework as a whole. Welded joints can be made flexible, but for wind bracing the opposite is needed.

4. It is easy to prove that field welding costs less than its strength equivalent in field riveting. Add to this saving the reduction in amount of steel required for a connection and the elimination of the shop work of punching or drilling rivet holes. The result is that it saves money to substitute a well-designed welded connection for a riveted one.

The question of reliability does not favor either riveting or welding as against the other. No one could have years of experience in both riveted and welded construction, without holding a conviction that both methods are systematically controlled within limits which insure safety.

Buildings are not the only tall structures. Until recently the Eiffel Tower, nearly 1000 feet high, held the world's record. Possibly some organization will presently decide to erect a far taller tower, for scientific purposes or for service in connection with aviation or for advertising and public amusement. It goes without saying that a tower lacking solid walls and solid floors can be built far higher than any possible building structure, but I am not aware than any engineer has worked out figures as to the limiting heights as governed by strength and weight of available materials. With the idea of carrying the discussion of tall structures into dimensions which have not been explored by actual construction, I have made a rough study of an open steel tower one mile in height. While there may be no likelihood that such a structure will be built, brief consideration of its possibilities is repaid by the resulting knowledge that it is practicable and by certain items of information as to a feasible design and the amount of steel required for same.

Arc-Welding Preferred

The object of introducing this hypothetical tower into the present discussion is to point out the reasons why arc-welding would be preferable to riveting for such a structure. A skeleton diagram of such a tower is shown, with items of information about the form and dimensions of a few of the main members. No comparative studies have been made to determine whether different proportions would result in greater economy, but the base width, taken at one-tenth the height, is evidently about

as small as could be used under the assumed wind pressure without serious uplift at base of windward columns. For designing the steel, wind pressure has been assumed at 20 lbs. per square foot of exposed vertical surface, but as this figure has been applied to all vertical windward faces even where partially protected by neighboring members, the allowance represents more than 20 lbs. pressure on fully exposed surfaces. Taking into account the low ratio of average to maximum pressure where the affected area is very extensive, and the fact that occasional winds of much higher average intensity than the assumed value could safely be resisted by the structure as designed, 1 thing the 20 lb. figure is fair. The foundation has been tested for stability and soil pressure under 50% extra wind pressure. Before designing such a high tower for actual construction, I should want to investigate the wind pressure more carefully, with special reference to wind velocities at high altitudes. All members are designed for compression, but require connections and splices designed to resist both compression and tension. All main members, including the diagonal wind braces, are proportioned with length ratio equal to 60. The main posts, forming the four edges of the pyramid, are composed each of a cluster of four columns arranged in a square, braced by trusses in the four outer planes and by transverse bents; the main compression elements are designed for combined effect of the weight above and maximum wind compression, at 20,000 lbs., per square inch. The main diagonals, made up of column clusters like the main posts, are designed for wind compression at 15,000 lbs., per square inch, this rather low value being intended to take account of fatigue effect of stress reversal.

To avoid the immense labor of designing this mile high structure panel by panel, I have employed mathematical integration to determine wind stresses, accumulated weight and cross sectional areas as functions of the distance from the apex. Some errors are, of course, involved, mainly in respect to weight of connections, but below the relatively light top fourth of the tower, the formulas are probably correct within 10%. I find a requirement of 19,000 tons of steel for a tower with welded connections. This does not include any allowance for landing stages, observation galleries, elevator hatch framing and other miscellaneous framing which would be needed to make the tower useful; the weight of these extras and the additional material in the main towers to carry the added load might easily bring the total of 25,000 tons. The reinforced concrete foundation, designed for maximum soil pressure 2½ tons per square foot, under conditions of 30 lb. wind pressure, requires 13,000 cubic yards of concrete.

Under the assumed maximum wind pressure, a slight uplift exists at base of windward columns. Since the wind tension in windward columns varies as the square of distance below the apex, while the compression due to weight of steel increases somewhat more rapidly than the cube of the distance, the net tensile unit stress decreases with the distance

[illegible]

Contracts Awarded

Liens, Acceptances, Etc.

BUILDING PERMITS

San Francisco County

No.	Owner	Contractor	Amt.
1239	Maurer	Carson	1800
1240	Foster	Emanuel	20000
1241	Samuelson	Owner	7000
1242	Strand	Owner	30000
1243	Doherty	Carson	1800
1244	Dockwell	Owner	4000
1245	Briano	Owner	2500
1246	Anderson	Owner	4000
1247	Parodi	Owner	3000
1248	Aroott	Owner	4000
1249	Arndt	Konz	4250
1250	Johnson	Owner	7000
1251	Meyer	Owner	15000
1252	Meyer	Owner	8000
1253	Meyer	Owner	4000
1254	Godfrey	Stevenson	4250
1255	Berkowitz	Diestel	2000
1256	Johnson	Owner	4000
1257	Magee	Parker	5000
1258	S F	Phoenix	3000
1259	Hoyt	Cantrell	1000
1260	Johnson	Elkington	7000
1261	Allen	Owner	3500
1262	Blass	Stoneson	10000
1263	Hardiman	Owner	4000
1264	Peters	Savage	1200
1265	Raymond	Barrett	3000
1266	Radelfinger	Owner	3000
1267	S. F. Bank	Braas	1388
1268	Standard	Lindgren	1200
1269	Campbell	Owner	4000
1270	Currie	Owner	1000
1271	Heyman	Owner	14000
1272	McCaie	Owner	5000
1273	Mazzaferrri	Barrick	1000

ALTERATIONS

(1239) 2971 CALIFORNIA ST.; alterations for (4) apts.
Owner—L. Maurer, 2921 California St.
Architect—None.
Contractor—O. Carson, 666 Mission St. \$1800

ALTERATIONS

(1240) 215 STOCKTON ST.; alterations for candy salon.
Owner—Foster & Orear, 440 Natoma.
Architect—G. A. Schastey, 781 Monadnock Bldg.
Contractor—L. & E. Emanuel, 2 6 6 5 Jones St. \$20,000

DWELLING

(1241) SW NORTHGATE and Montecrey Blvd.; one-story and basement frame dwelling.
Owner and Builder—A. M. Samuelson, 901 Geneva Ave.
Architect—None. \$7000

APARTMENTS

(1242) W. ECHANAN 102 S Jackson; three-story and basement frame (12) apts.
Owner—T. I. Strand.
Architect—L. O. Ebbets, 320 Fulton St. \$30,000

ALTERATIONS

(1243) 673 HARRISON ST.; alterations to (2) flats.
Owner—E. Doherty, 673 Harrison St.
Architect—None.
Contractor—O. Carson, 666 Mission St. \$1800

DWELLING

(1244) W HOWTH 25 N Mt. Vernon; one-story and basement frame dwelling.
Owner—A. & C. Dockwell, 278 Howth Street.
Architect—None. \$4000

WALLS & TERRACES

(1245) 273 GREEN ST.; concrete walls and terraces.
Owner—F. Briano, 273 Green St.
Architect—H. Zanolini, 604 Montgomery.
\$2500
\$2500

DWELLING

(1246) E 24th AVE. 163 N Kirkham; one-story and basement frame dwelling.
Owner—C. Andersen, 146 Granville Way.
Architect—None. \$4000

DWELLING

(1249) N CARROLL 50 W Phelps; 1-story and basement frame dwelling.
Owner—P. Parodi, 2864 San Bruno.
Architect—None. \$3000

DWELLING

(1248) E SIXTEENTH AVE. 247 N Santiago. One-story & basement frame dwelling.
Owner—J. A. Arnott, 633 Taraval.

DWELLING

(1249) W THIRTIETH AVE. 200 S Cabrillo. One-story basement frame dwelling.
Owner—Mrs. S. Arndt, 437 31st Ave.
Architect—None.
Contractor—O. Knox & Son, 296 27th Ave. \$4250

DWELLING

(1250) E TWENTY-SIXTH AVE. 250 S Ulua. Two one-story and basement frame dwellings.
Owner—N. E. Johnson, 666 Mission.
Architect—None. each \$3500

DWELLINGS.

(1251) W 33rd Ave., 175 N Vincente Three one-story & basement frame dwellings.
Owner—Meyer Bros., 727 Portola.
Architect—None. each \$5000

DWELLINGS.

(1252) N AGUA 291 W Teresita. Two one-story & basement dwells
Owner—Meyer Bros, 727 Portola Ave.
Architect—None. each \$4000

DWELLING

(1253) E 25th Ave., 175 S Taraval. One-story and basement frame dwelling.
Owner—Meyer Bros, 727 Portola Ave.
Architect—None. \$4000

DWELLING

(1254) S PALOU 300 E Newhall; one-story and basement frame dwelling.
Owner—R. Godfrey, 4809 3rd St.
Architect—None.
Contractor—L. H. Stevenson, 4809 3rd Street. \$4250

REPAIRS

(1255) 2185 HAYES ST.; repair fire damage.
Owner—E. Berkowitz, 2185 Hayes St.
Architect—None.
Contractor—J. Diestel, 333 Kearny St. \$2000.

DWELLING

(1256) N FRANCE 125 E Athens; 1-story and basement frame dwelling.
Owner—G. G. Johnson, 1175 Munich.
Architect—None. \$4000

DWELLING

(1257) N ALVARADO 155 W Sanchez; 1-story and basement frame dwelling.
Owner—J. P. Magee, 875 Dolores St.
Architect—None.
Contractor—W. C. Parker, 875 Dolores St. \$5000

ALTERATIONS

(1258) 965 MARKET ST.; alterations to sidewalk lights.
Owner—San Francisco Entertainment Co., 1066 Market St.
Architect—None.
Contractor—Phoenix Simpton Co, 520 6th St. \$3000

ALTERATIONS

(1259) 2700 LYON ST.; alterations to bath.
Owner—H. Hoyt.
Plans by G. Cantrell, 45 2nd St. \$1000

FLATS

(1260) N 22nd ST. 750 E Chattanooga; two-story and basement frame (2) flats.
Owner—Mrs. J. Johnson, care architect.
Architect—C. F. Strothoff, 2274 15th Street.
Contractor—G. J. Elkington & Sons, 330 Vicente. \$7000

DWELLING

(1261) S PARADISE 156 E Elk. One-story and basement frame dwelling.
Owner—G. L. Allen, 3410 Army St., San Francisco.
Architect—None. \$350

RESIDENCE

(1262) S CASA 102 W Retiro. Three-story and basement frame residence.
Owner—Mr. and Mrs. R. Blass, 1351 Hayes St., San Francisco.
Architect—S. Colton, 3020 Balboa St., San Francisco.
Contractor—E. L. Stoneson, 279 Yerba Buena Ave., S. F. \$10,000

DWELLING

(1263) W EIGHTEENTH AVE 25 S Kirkham. One-story and basement frame dwelling.
Owner—M. D. Hardiman, 423 33th Ave., San Francisco.
Architect—None. \$4000

CAPITAL CITY TILE COMPANY

J. C. PALEN

Manager

914 Seventh Street

Sacramento - - - California

CLUB HOUSE

(1261) W DIVISADERO 117 N Fulton
One-story frame club house (mini-
ature golf).
Owner—D. S. Peters, 1301A Divisadero
St., San Francisco.
Architect—None.
Contractor—W. A. Savage, 624 Urbano
St., San Francisco. \$1200

ALTERATIONS

(1265) SW FRANKLIN AND FELL.
Alter for miniature golf course.
Owner—Dr. A. Raymond, 310 Bu-
chanan St., San Francisco
Architect—C. F. Strothoff, 2274 15th
St., San Francisco.
Contractor—Barrett & Hilp, 918 Har-
rison St., San Francisco \$3000

SHOP

(1266) N NATOMA 34 E Russ St.
One-story Class C shop.
Owner—Radefinger Bros. Elec. Shop,
234 Fourth St., San Francisco.
Architect—None. \$3000

ALTERATIONS

(1267) NO. 526 CALIFORNIA ST.
Alter office in bank.
Owner—San Francisco Bank, Prem.
Architect—Ward & Blohne, 24 Cali-
fornia St., San Francisco.
Contractor—Braas & Kuhn, 1919 Bry-
ant St., San Francisco. \$1388

ALTERATIONS

(1268) NO. 526 MISSION ST. Alter
store front.
Owner—Standard Oil Co., 225 Bush
St., San Francisco.
Architect—G. W. Kelham, 315 Mont-
gomery St., San Francisco.
Contractor—Lindgren & Swinerton,
225 Bush St., S. F. \$1200

DWELLING

(1269) SW IDORA and Laguna; one-
story and basement frame dwell-
ing.
Owner—J. V. Campbell, 1072 Bryant.
Architect—None. \$4000

OFFICE & REST ROOM

(1270) NE 22nd & Bartlett; one-story
frame office and restroom.
Owner—J. Currie, 1818 20th Ave.
Architect—None. \$1000

DWELLINGS

(1271) W DARTMOUTH 314 N Sil-
ver; four 1-story and basement
frame dwellings.
Owner & Builder—Heyman Bros., 742
Market St.
Architect—None. \$3500 each

DWELLING

(1272) E BRODERICK 112 N North
Point; two-story and basement
frame dwelling.
Owner—J. McCabe, 716 Ulloa St.
Plans by Owner. \$5000

ALTERATIONS

(1273) 2501 SUTTER ST.; alterations
to dwelling for garages.
Owner—G. Mazzafieri, 250 Sutter St.
Architect—None.
Contractor—W. C. Barrick. \$1000

BUILDING CONTRACTS

San Francisco County

No.	Owner	Contractor	Amt.
204	Johnson	Elkington	9750
205	Viavi	Zelinsky	1865
206	Tognelli	Lindberg	5346
207	Godfrey	Stevenson	4250

FLAT BLDG.
(204) N TWENTY-SECOND 75 E
Chattanooga E 25xN 100. All
work for two-story and basement
frame flat building.

Owner—J. A. Johnson, 815 Dolores St.,
San Francisco.
Architect—Chas. F. Strothoff, 2274
15th St., San Francisco.
Contractor—G. J. Elkington & Sons,
326 Vicente St., San Francisco.
Filed Sept. 26, '30. Dated Sept. 23, '30.
Prime up.....\$2437.50
Brown coat plaster on.....2437.50
Completed and accepted.....2437.50
Usual 35 days.....2437.50

TOTAL COST, \$9750.00
Bond, \$9750. Sureties, F. H. Walker
and L. Wilson. Limit, 100 days. For-
feit, none. Plans and specifications
filed.

PAINTING

(205) 109 FT. ON N FELL by 120
SW Cor. Lot being 100 E of NE
Cor. Van Ness Ave. All work for
painting building.

Owner—Viavi Co., Premises.
Architect—None.
Contractor—A. A. Zelinsky & Co., 4420
California St., San Francisco.
Filed Sept. 26, '30. Dated Sept. 12, '30
On 15th day of each month.....75%
Usual 35 days.....25%
TOTAL COST, \$1865
Bond, \$932.50. Surety, New York In-
demnity Co. Limit, Dec. 1, 1930. For-
feit, none. Plans and specifications
filed.

BUILDING

(206) S FRANCISCO 87-6 E Mason
E 50 x S 110; all work on 1-story
and mezzanine building except
terra cotta, tile, plastering and
metal and cement grilles.
Owner—F. O. Tognelli, 211 Moulton.
Architect—None.
Contractor—C. Lindberg, 1 Naylor St.
Filed Oct. 1, '30. Dated Aug. 29, '30.
Rough frame up.....\$1336.50
Roof and 1st coat of plaster.....1336.50
Completed and accepted.....1336.50
Usual 35 days.....1336.50
TOTAL COST, \$5346
Limit, 65 days.

DWELLING

(207) S PALOU 300 E Newhall; all
work on one-story and basement
frame dwelling.
Owner—Richard O. and Caroline P.
Godfrey.
Designer—Vandenbergh.
Contractor—L. H. Stevenson, 130 Mer-
ced.
Filed, Oct. 1, '30. Dated Sept. 29, '30.
Roof on.....\$875
Brown coated.....875
Completed.....875
Usual 35 days.....875
By mortgage to contractor.....750
TOTAL COST, \$4250
Limit, 90 days. Plans and Spec. filed.

COMPLETION NOTICES
San Francisco County

Recorded	Accepted
Sept. 24, 1930—W HOWARD 50 S Silliman. T and D Kullisch to B C Lindsay.....Sept. 24, 1930	
Sept. 24, 1930—E TWENTY-ETH AV. 182-5 N Rivera 25x E 120-2. C Ingberman to whom it may concern.....	
Sept. 29, 1930—W BACON 100 SW Holyoke SW 25 x NW 100. Jas B Le Gette to C H Westlund.....	
.....September 27, 1930	
Sept. 29, 1930—N CALIFORNIA 77- 9.12 W 2nd Ave N 107-8.4 W 25 S 12-2.4 W 0-2.75 S 98 E 25-4.31. C A Hall to M M Bowman.....	
Sept. 29, 1930—W 14th AVE 220 S Tavaol 30 x 135 known as 2439 14th Ave. Theresa and John E Peterson to Siri & Bott.....	
.....September 19, 1930	
Sept. 29, 1930—LOT 13 BLK 11. Joost Addn to Glen Park. Gus G	

Johnson to whom it may concern.....
.....September 27, 1930
Sept. 27, 1930—NE 15th AVE. and
Ulloa. Thos M Jones to whom it
may concern.....September 26, 1930
Sept. 26, 1930—LOT 98-9 frontage on
N Chestnut x 40 on E Jones, bling
NE corner Chestnut and Jones
A and Mary A Laroeca to De Luca
& Son.....September 1, 1930
Sept. 26, 1930—SB SAN JOSE AVE
226 and 252 NE Whipple. I J
Hluett to H H Isaac. Sept. 26, 1930
Sept. 25, 1930—S LIBERTY ST 280
W Church St, 25x114. R and H
Mortenson to J H Vener.....
.....September 25, 1930
Sept. 25, 1930—LOT 13 BLK 3271.
Map All Davidson Manor. Gordon
W Morris to whom it may concern.....
.....September 24, 1930
Sept. 25, 1930—LOT 20 BLK G Co-
lumbia Heights Tract, 120 Calne
St. L R Milne to whom it may
concern.....
Sept. 25, 1930—N JEFFERSON 113-
6 W Broderick W 24 x N 68-9.
Louis Franceschi to whom it may
concern.....September 23, 1930
Sept. 24, 1930—LOT bounded on N
by S Ulloa, S by N Vicente, E by
W 4th Ave. W by E Great High-
way. J Wolsberg, Inc to whom
it may concern.....Sept. 24, 1930
Sept. 24, 1930—NE WILDE AVE
and SW Goettingen NW 52.04 NE
to Goettingen S to Wilde NE
Wilde Ave 52.04 NW Goettingen
NW 29xNE 72.71 Blk 57, Reis
Tract. R F Cassidy Co to whom
it may concern.....Sept. 22, 1930
Sept. 24, 1930—NO 570 CAMINO
Del Mar Sub 4, Sea Cliff. Eliza-
beth Arthurs to J Dawson.....
.....September 20, 1930
Sept. 30, 1930—NE NORTHGATE
Drive and Upland Drive, 50 North-
gate Drive in Blk 3275 A, Mount
Davidson Manor. Albin M Sam-
uelson to whom it may concern.....
.....September 29, 1930

LIENS FILED

San Francisco County

Recorded	Amount
Sept. 29, 1930—SE MISSION 100 NE Russia Ave NE 100 x SE 108-6 Blk 4 Excel Hd Assn. J D Murphy as Standard Bldg Material Co vs John Hill, Ambrose B and Viola B Frank.....\$388.99	
Sept. 29, 1930—W MINNESOTA 20 400 N 22nd N 25 x 100. S F Terrazo Assn vs G H Augustine and A Or- etel, Loretta F Wilson and Harry J Roos.....\$25	
Sept. 29, 1930—S IRVING ST and W 19th Ave W 100 x S 50; S Irving St 100 W 19th Ave W 27-6 x S 100. Jas R McElroy vs J and A Berendsen.....\$357.50	
Sept. 29, 1930—N IRVING ST and E 22nd Ave E 95 x N 100. Jas R McElroy vs L R Flanagan.....\$172	
Sept. 29, 1930—N IRVING ST 65 E 20th Ave E 50 x N 100. Jas R Mc- Elroy vs O Monson.....\$130	
Sept. 29, 1930—N O'FARRELL ST 103-1 1/2 W Mason W 61-10 1/2 x N 137-6. Gilley-Schmid Co vs Alca- zar Hotel, John Doe McPhall and S Knight.....\$157	

RELEASE OF LIENS

San Francisco County

Sept. 26, 1930—NE APPLETON AVE
52-3 1/4 SE Mission SE 30 x NE 74
blk 1, Fairs Subdiv. Holly Park
Tract. H S Thomson, Inc to Ern-
est Watson
Sept. 29, 1930—NW CALIFORNIA &
9th Ave W 45 x N 100. W 9th Ave
150 N California N 25 x W 120. A
Flesher to whom it may concern

BUILDING PERMITS

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
1215	Golden Gate	Owner	4500
1216	Great Western	Owner	1000
1217	Fleming	Owner	3950
1218	Johnson	Owner	5700
1219	Allen	Austin	1425
1220	Edison	Owner	2500
1221	Ehmann	Cedarborg	9500
1222	Rauston	Waiter	9000
1223	Waiter	Windsor	9000
1224	Tropilong	Owner	2500
1225	Rissman	Alley	1800
1226	Clark	Meyer	1000
1227	City of Alameda	Owner	1500
1228	Justice	Watson	4000
1229	Hargrave	Thorpe	1000
1230	Kinley	Owner	35000
1231	Warren	Owner	4000
1232	Bank of Italy	Owner	4000
1233	Lowry	Wilson	2600
1234	Rogers	Rich	7000
1237	Merseaw	Reimers	4800
1238	Page	Owners	1000
1239	Nielson	McBride	7000
1235	Fox	Nylande	6000
1242	Shell Oil	Prentice	1325
1243	Woolsey	Dilline	1500

ALTERATIONS

(1215) 3720 E 14th St., OAKLAND; alterations.

Owner and Builder—Golden Gate Theatre Co., 25 Taylor St., San Francisco.

Architect—None. \$4500

GREENHOUSE

(1216) 9712 SUNNYSIDE ST., OAKLAND; one-story greenhouse.

Owner and Builder—Great Western Farm Co., 9712 Sunnyside St., Oakland.

Architect—None. \$1000

DWELLING

(1217) N VICTOR AVE. 100 W Atlas, OAKLAND; one-story 5-room dwelling.

Owner and Builder—Andrew Fleming, 3906 Yale Ave., Oakland.

Architect—None. \$3950

DWELLING

(1218) NW COR. ATLAS and Detroit Sts., OAKLAND; two-story eight-room dwelling and 1-story garage.

Owner and Builder—O. W. Johnson, 4554 Tompkins St., Oakland.

Architect—None. \$5700

WAREHOUSE

(1219) W EIGHTY-FIFTH AVE. at W. P. R. R., OAKLAND. One-story warehouse.

Owner—Gordon Allen, Ltd., Premises.

Architect—None.

Contractor—Austin Co. of Calif., 720

Ray Bldg., Oakland. \$1425

ALTERATIONS

(1220) NO. 1315 WASHINGTON ST., OAKLAND. Alter store front.

Owner—Edison Bros. Store, Inc., St.

Louis, Mo.

Architect—I Herman Kanner, St.

Louis, Mo. \$2500

ALTERATIONS

(1221) 37 BELLEVUE, PIEDMONT; alterations.

Owner—E. W. Ehmann, 37 Bellevue,

Piedmont.

Architect—Farr & Ward, 68 Post St.,

San Francisco.

Contractor—A. Cedarborg, 1455 Excel-

sior Ave., Oakland. \$9500

GOLF COURSE

(1222) 1736 UNIVERSITY AVENUE, BERKELEY; 2-story 1-room class

C miniature golf course.

Owner—C. E. Radston, Berkeley.

Architect—None.

Contractor—Fox Bros., 1484 Univer-

sity Ave., Berkeley. \$9000

RESIDENCE

(1223) 237 PARK VIEW, PIEDMONT two-story 7-room residence and

garage.

Owner—B. F. Waite, 337 Olive Ave.,

Piedmont.

Plans by Builder.

Contractor—Geo. Windsor, 928 Kings-

ton Ave., Piedmont. \$9000

DWELLING

(1224) E VERNON ST. 250 N Perkins St., OAKLAND; one-story 5-

room dwelling.

Owner and Builder—Paul Owen Trop-

long, 69 Glen Ave., Oakland.

Architect—None. \$2500

ADDITIONS

(1225) NO. 1338 BAY ST., ALAMEDA Frame additions.

Owner—S. J. Rissman, Premises.

Architect—None.

Contractor—Leslie Alley, 1558 Bay St.,

Alameda. \$1800

ALTERATIONS

(1226) NO. 700 PARU ST., ALAMEDA

Alterations.

Owner—A. V. Clark, Premises.

Architect—None.

Contractor—R. Meyer, 2059 Clinton

Ave., Alameda. \$1000

CELLS

(1227) CITY HALL, ALAMEDA

New block of 4 steel cells.

Owner—City of Alameda.

Architect—None. \$1500

DWELLING

(1228) NO. 2715 CLAY ST., ALAMEDA. One-story 6-room frame

and stucco dwelling.

Owner—N. F. Justice, 973 Pearl St.,

San Francisco.

Architect—None.

Contractor—W. Watson, Alameda.

\$4000

GARAGE

(1229) 2130 SANTA CLARA AVE., ALAMEDA. Five-car frame and

stucco garage.

Owner—Fred J. Hargrave, 2130 Santa

Clara Ave., Alameda.

Architect—None.

Contractor—W. C. Thorpe, 1177 Re-

gent St., Alameda. Cost, \$1000

APARTMENTS

(1230) NO. 729 CENTRAL AVE., ALAMEDA. Three-story 42-room

frame and stucco apartments.

Owner—J. M. Kinley, 2120 Delaware

St., Berkeley.

Architect—Thos. Keeman, \$15 Syndi-

cate Bldg., Oakland. \$35,000

(1231) NO. 4255 MONTEREY BLVD.,

OAKLAND. One-story six-room

dwelling.

Owner—Minnie H. Warren, 3502 Foot-

hill Blvd., Oakland.

Architect—None.

Contractor—W. H. Warren. \$4000

REPAIRS

(1232) NW E-FOURTEENTH ST. and 34th Ave., OAKLAND. Fire

repairs.

Owner—Bank of Italy N. T. and S. A., 1008 Oakland Bank Bldg., Oakland.

Architect—None. \$1000

DWELLING

(1233) W PLOT G LOT 224, Broad-

moor Terrace, OAKLAND. One-

story 5-room dwelling.

Owner—Ed. Lowry, 7109 Todd St.,

Oakland.

Architect—None.

Contractor—L. E. Wilson, 9218 A St.,

Oakland. \$2600

DWELLING

(1234) W BUENA VISTA PLACE 200 N Buena Vista Ave., OAKLAND. Two-story 6-room dwelling.

Owner—Samuel Rogers, 5048 Chabot

Road, Oakland.

Architect—None.

Contractor—C. D. Rich, 4627 Fleming

Ave., Oakland. \$7000

DWELLING

(1235) NO 748 CARY DRIVE, SAN LEANDRO. One and one-half-

story 7-room frame and stucco

dwelling.

Owner—C. E. Fox, Manteca.

Architect—P. R. Anderson, 1014 Davis

Court, Alameda.

Contractor—Nylande, 633 Montclare

St., San Leandro. \$6000

RESIDENCE

(1236) 956 GRIZZLY PEAK BLVD., BERKELEY; one-story 4-room 1-

family frame residence.

Owner and Builder—C. R. Brown, 1531

Blake St., Berkeley.

Architect—None. \$2500

RESIDENCE

(1237) 144 BRET HARTE, BERKELEY; two-story 6-room 1-family

residence.

Owner—J. Merseaw, 1140 Cragmont

Ave., Berkeley.

Architect—Fred. H. Reimers, 233 Post

St., San Francisco.

Contractor—I. H. Reimers, 745 Wala-

sta Ave., Oakland. \$1800

ALTERATIONS

(1238) 2747 DERBY ST., BERKELEY alterations.

Owner—Dr. G. W. Page.

Architect—None.

Contractor—J. Owens, 65 Linden Ave.,

Oakland. \$1000

RESIDENCE

(1239) 975 SANTA BARBARA RD., BERKELEY; two-story 6-room 1-

family frame residence and ga-

rage.

Owner—Scott Nielson.

Architect—None.

Contractor—R. C. McBridge, Jr., 4127

Broadway, Oakland. \$7000

TANK

(1240) PARR TERMINAL, Ninth and

E. Sts., OAKLAND; steel tank.

Owner & Builder—General Petroleum

Corp., Parr Terminal Plant, 714

Ray Bldg., Oakland. \$15,000

Architect—None.

Member Insurance Brokers' Exchange

FRED H. BOGGS
INSURANCE
490 GEARY STREET

Phone FRanklin 9400

San Francisco

ADDITION
(1241) 9000 B ST., OAKLAND; addition to warehouse.
Owner—Hazel Atlas Glass Co., 9000 B St., Oakland.
Architect—None.
Contractor—Larsen & Larsen & Judson Pacific Co., foot of Park Ave., Emeryville. \$12,000

STATION
(1242) NO. 1848 SHATTUCK AVE., BERKELEY. Class C gasoline oil service station and comfort station.
Owner—Shell Oil Co., Oakland.
Architect—A. L. Aulbrick, 4055 San Pablo Ave., Oakland.
Contractor—Prentice Constr. Co., 4055 San Pablo Ave., Oakland \$1325

ALTERATIONS
(1243) 1600 TELEGRAPH AVENUE, OAKLAND; alterations.
Owner—Leon H. Woolsey, 1605 Telegraph Ave., Oakland.
Architect—None.
Contractor—Dilline & Knight 350 63rd St., Oakland. \$1500

BUILDING CONTRACTS

ALAMEDA COUNTY

No. Owner	Contractor	Amt.
163 Davis	Sullivan	9990
164 Weeks	Globe	700

BUNGALOW COURT
(163) LOTS 1 and 2 BLK C, town of Pleasanton; general construction on bungalow court.
Owners—Mura W. and Wm. T. Davis, Pleasanton.
Architects—D. M. Crooks and F. A. Hill, 1448 Webster St., Oakland.
Contractor—Sullivan & Sullivan, Oakland.
Filed Sept. 27, '30. Dated Sept. 25, '30
When roof is on.....\$2490
When plastered.....2500
When completed.....2500
Usual 35 days.....2500
TOTAL COST, \$3990
Forfeit, \$5 per day. Limit, 100 days.
Plans and Spec. filed.

ALTERATIONS
(164) 4272 PIEDMONT AVE., Oakland; alterations to store building owner—Weeks Securities Corp.
Architect—W. E. Weeks, 4272 Piedmont Ave., Oakland.
Contractor—The Globe Corporation.
Filed Oct. 1, '30. Dated Sept. 26, '30.
Progress payments of.....75%
Usual 35 days.....25%
TOTAL COST, \$700
Bond, \$700. Sureties, Glens Indemnity Co. Limit, 30 days. Plans filed.

COMPLETION NOTICES

ALAMEDA COUNTY

Recorded Accepted
Sept. 25, 1930—LOT 71, Ardmore, San Leandro. C F Lodge to whom it may concern.....Sept. 22, 1930
Sept. 26, 1930—NO. 797 ROSEMOUNT ROAD, Oakland. Rosetta and Fred Saunders to whom it may concern.....Sept. 23, 1930
Sept. 26, 1930—LOT 14 BLK A, Colonial Acres, Alameda County. M. Louise Rackle to J. O. Young.....Sept. 1, 1930
Sept. 26, 1930—NO. 1801-1803 39TH AVE., Oakland. Ralph Ralola to Allen MacDonald.....Sept. 18, 1930
Sept. 26, 1930—STATE HIGHWAY bet Dublin and Hayward. Dept. of Public Works, State of California to Ariss-Knapp Co.....Sept. 23, 1930
Sept. 26, 1930—E EIGHTH ST. and Park Way, Oakland. Emilia A. Belgrano to The John J. Moore Co.....Sept. 20, 1930
Sept. 26, 1930—NO. 51 NORTHAMP-

ton Ave., Berkeley. Sam and Sylene M Steindel to Sam Steindel.....Sept. 23, 1930
Sept. 25, 1930—LOT 23 BLK 220, map of Town of Newark. Beatrice Ingham to A B Ingham.....September 22, 1930
Sept. 25, 1930—PTN LOT 10, Briggs Tract, Alameda. Noble F Justice to whom it may concern.....September 22, 1930
Sept. 24, 1930—LOTS 43 AND 44, East 14th St. Tract, Eden Twp. R L Billings to William Truener.....Sept. 23, 1930
Sept. 22, 1930—SE SECOND and Harrison Sts., Oakland. Safeway Stores, Inc to Edwards Ice Machine Co.....Sept. 25, 1930
Sept. 23, 1930—SE SECOND and Harrison Sts., Oakland. Safeway Stores, Inc to Luse-Stevenson Co.....Sept. 25, 1930

LIENS FILED

ALAMEDA COUNTY

Recorded Amount
Sept. 24, 1930—LOT 5 BLK M, Excelsior Heights, Oakland. Bay City Asbestos Co vs R A and Margaret Bergstrom and N Berovich.....\$143.25
Sept. 30, 1930—INTER SW line Rust St and E 54th Ave, Oakland. Straub Mfg Co, Inc, \$68; H W Diggert, \$475; W Parrish Co, \$213.25; Curtis & Geer, \$1180.65; Acme Boiler Works, \$152, vs Sutter Co, Cooperative Grocers and A A Wise as American Machine Company.....
Sept. 26, 1930—W SAN PABLO AVE 157 N Twenty-seventh St., Oakland. Kimball-Krogh Pump Co vs Standard Creameries Co, Ltd; A E Williams; dba East Bay Elevator Co.....\$150
Sept. 26, 1930—LOT 5 BLK N, Excelsior Heights, Oakland. Coast Oil & Supply Co vs R A Boydston; M Boydston; H E Lansing and J S Berovich.....\$135.75
Sept. 26, 1930—NO 753 SANTA Barbara Road, Berkeley. A I Baker vs Charles McCulloch; Clara Sears McCulloch and W H Hooper.....\$374.25
Sept. 25, 1930—LOT 6 BLK N, Excelsior Heights, Oakland. Bear Flooring Co, Inc vs R A and Margaret Boydston, J S Berovich.....\$800
Sept. 28, 1930—NE PIEDMONT AVE. and Forest St., Berkeley. Carl H Fox; George H Fox and Herman K Fox (as Fox Bros) vs Maude Adams.....\$125
Sept. 29, 1930—LOTS 29 AND 30 Blk 13, Map No. 6 of Regents Park, Albany. E K Wood Lumber Co vs J and A Catrini.....\$712.16
Sept. 27, 1930—563 MIRA VISTA AVE, Oakland. H Brown vs Lynn W Culp Jr.....\$426
Sept. 27, 1930—966 HILDALE AVE, Berkeley. A I Baker vs Harold E and Ruth Odette Pontecilla, W H Hooper.....\$251.25

RELEASE OF LIENS

ALAMEDA COUNTY

Recorded Amount
Sept. 24, 1930—LOT 75, Fairway Estates in Oak Knoll, Oakland. Melrose Building Materials Co to Mary Sulprizio; Clifton E Davidson and Henning Carlson.....\$274.76

BUILDING PERMITS

SAN MATEO

RESIDENCE, \$5000; Lot 6 Blk 14, No. 507 Cornell St., San Mateo; owner, David Houle, 162 Grand St., Red-

wood City; contractor, Kozepeler Bros.
STORE building, \$7000; Blk 14 Baldwin Ave., San Mateo; owner, Jas. A. Lee, 48 3rd St., San Mateo; contractor, Lengfeld & Olund, 145 El Camino, San Mateo.
RESIDENCE, \$9000; Lot 5 Blk 5, No. 536 Fordham St., San Mateo, owner, G. C. Hess, 1406 Burlingame Ave., San Mateo; contractor, W. O. Neocalades, 236 Clark St., San Mateo.
BUNGALOW, \$4100; Lot 16 Blk 17, Indian St., San Mateo; owner, P. Bergams, 818 Pepper St., San Mateo; contractor, J. Casetto, 220 Hancock St., San Mateo.
MINIATURE golf course, \$5000; Lots 1, 2, 23 and 54 Blk E, El Camino, San Mateo; owner, C. Frederick Faude, 2800 Georg St., San Francisco; contractor, V. Peck.
BUNGALOW, \$2100; Lot 17 Blk 11; No. 215 N-Ellsworth St., San Mateo; owner and contractor, A. Powers, 515 9th Ave., San Mateo.
BUNGALOW, \$4500; Lot 7 Blk 21, No. 915 S-Grant St., San Mateo; owner, Kenneth Campbell; contractor, O. Powers.
GARAGE, \$1000; Por Lot 15 Blk 7, Isabella St., San Mateo; owner, and contractor, Chas. Gasconl, Fremises.
BUNGALOW, \$2666; 25 ft. Lot 16 Blk 10, No. 702 S-Humboldt St., San Mateo; owner and contractor, J. E. Cooksey, 538 S-Humboldt St., San Mateo.
BUNGALOW, \$4100; Lot 69, No. 1234 Oak St., San Mateo; owner, G. R. Davidson; contractor, E. Petersen

BUILDING PERMITS

PALO ALTO

RESIDENCE, stucco, \$3,000; 268 Lambert St.; owner L. Dellaquila, 1675 3rd St., Palo Alto.
GARAGE, class C, \$14,000; 902 Alma St.; owner, J. Chester Robinson, contractor, Black & Campbell.
ADDITION, office, \$1000; 627 University Ave.; owner, Agnes W. Black; contractor, G. G. Bertsche, 578 University Ave., Palo Alto.
RESIDENCE, Stucco, \$530 No. 591 Oregon Ave., Palo Alto; owner, Emile Fixex; contractor, W. F. Klay, Menlo Oaks Drive, Menlo Park.
RESIDENCE, stucco, \$6000; No. 204 Seale Ave., Palo Alto; owner, House & Osmonson, Inc., 156 University Ave., Palo Alto.
RESIDENCE, shingle, \$7500; No. 143 Lowell Ave., Palo Alto; owner, Walter F. Nickel, 352 Everett St., Palo Alto; contractor, J. A. Broadwood, 1201 Webster St., Palo Alto.
DWELLING, rustic, \$3,000, 201 Chestnut St.; owner, M. C. La Chance, 160 Forest, Palo Alto.

BUILDING PERMITS

SAN JOSE

RESIDENCE, five-room frame, \$3750, McDaniel near Park; owner and builder, Wm. H. O'Neill, 1500 McDaniel San Jose.
ADDITION, class C, to school house, \$29,300; Vine and Grant; owner San Jose School Dist., High School Bldg.; architect, W. H. Weeks, Bank of Italy Bldg. San Jose, contractor, Wm. M. Myer, Haney Road, Cupertino.
RESIDENCE, 10-room, frame, \$15,000; 12th near William; owner H. Postlethwaite, 444 S 15th St., San Jose; architect Bunder & Curtis, 35 W San Carlos, contractor Chas Thomas, 127 Clayton St., San Jose

Recorded	Amount
Sept. 29, 1930—LOTS 19 AND 20 BLK 25, Richmond Junction Heights. A Sakrison and R Peterson (as Rich-Oak Hardwood Floor Co) vs A Darling and Tony Rigollo.....	\$126
Sept. 26, 1930—WEST 10 FT LOT 6 and 30 ft of lot 5 blk 111 Prazer Addn to Additional Survey. Martinez, Hutchinson Co vs Mae F Archibald, S V and Clair Cahill.....	\$126
Sept. 26, 1930—LOTS 7 and 8 BLK 111 Prazer Addn Survey. Martinez, Hutchinson Co vs Tony F Carlson.....	\$52

COMPLETION NOTICES

SAN JOAQUIN COUNTY

Recorded	Accepted
Sept. 24, 1930—LOT 1 BLK 7, Lomita Park—Anton Larson to whom it may concern.....	Sept. 24, 1930
Sept. 23, 1930—HEADQUARTERS Camp, Union Island Ranch. California Packing Corp to whom it may concern.....	Sept. 17, 1930
Sept. 27, 1930—LOT 2 BLK 14 east of Center St. Chas Marens to L S Feltz.....	September 25, 1930

LIENS FILED

SAN JOAQUIN COUNTY

Recorded	Amount
Sept. 27, 1930—EAST HALF of Lot 8; all of lot 10 and the east 75 ft of the west 100 ft of each of lots 15 and 16, all in block 12, east of Center St.; the east 50 ft of lot 16 in block 12, east of Center St., excepting the north one and eight-twelfth ft and the south 3 feet thereof; portions of lots 15 and 16 in blk 12, east of Center St.; the east 7 ft of lot 7 and all of lot 9 in blk 12, east of Center St., excepting the east 7 inches of the north 90 feet (City of Stockton measurements) of said lot 9; also excepting the north 4 ft and 3 in thereof, as conveyed to the City of Stockton for additional sidewalk space; the west half of lot 8; the west half of the west one-third of lot 15 and the west half of the west one-third of lot 16, all in blk 12, east of Center St. D J Dolan as Dolan Wrecking & Const Co vs Henry I Beller as Henry I Beller Const Co.....	\$922.55

COMPLETION NOTICES

MONTEREY COUNTY

Recorded	Accepted
Sept. 24, 1930—LOT 6 BLK 2, Maple Park also S 10 ft. Lot 5 Blk 2, Maple Park. Monterey, Bruce Church to Escherich Bros.....	Sept. 24, 1930

LIENS FILED

MONTEREY COUNTY

Recorded	Amount
Sept. 24, 1930—LOT 10 W 5 ft. Lot 8 Blk 5, Monterey Heights, Monterey. Charles L Frost vs John H Clark.....	\$267.50
Sept. 25, 1930—LOTS 8 AND 10 BLK 5, Monterey Heights, Monterey. W H McConnell, \$137.10; A Marotta, \$150; J W Shanley, \$117.44 vs John H Clark and T A Work Jr	
Sept. 26, 1930—LOTS 8 & 10 BLK 5, Monterey Heights, Monterey. Roy M Wright, \$109.15 H C Steinmetz, \$59.25; Ed Simpson, \$426.17 vs T A Work Jr and John H Clark.....	\$99.50
Sept. 27, 1930—LOTS 1 AND 2 BLK 192, Map of Hillcrest Tract, Pacific Grove. M J Murphy, Inc vs B G and Malindo E Witherpoon and W H Baldwin.....	\$39.50
Sept. 30, 1930—LOTS 8 AND 10 BLK 5, Monterey Heights, Monterey. S Ruthven vs T A Works Jr and John H Clark.....	\$415.50

RELEASE OF LIENS

MONTEREY COUNTY

Recorded	Amount
Sept. 25, 1930—LOTS 16 & 17 BLK G E Halsted and E P Newdman	
9, Del Monte Heights. G E Halsted and E P Newman, \$287.97;	

Homer T Hayward Lumber Co, \$59.20; May L Chase, \$382.82; Edward E Foran, \$148.85 to Oliver B and Stella E Olsen.....

BUILDING PERMITS

RICHMOND

STORE and apt., 50x85-ft., frame and plaster, \$7500; W S San Pablo bet. Sacramento and Panama; owner, Jos. Faro, San Pablo and Potrero, architect, J. T. Norbett; contractor, C. F. Kaysor, El Cerrito Blvd. COTTAGE, 5-room frame and plaster, \$4000; N S Solano bet. 36th and 27th; owner and builder, Alex Martz, 421 21st St., Richmond. RESIDENCE, 5-room 2-story, frame and plaster, with garage, \$6000; S Nevin bet. McLaughlin and San Pablo; owner, Y. Nelson, San Pablo and Nevin, Richmond; architect, J. T. Norbett, 3109 Barrett, Richmond; contractor, Valine & Lawrence, Crockett, Calif. COTTAGE, 5-room frame and plaster, with garage, \$5000; E S McLaughlin bet. Roosevelt and Sierma; owner and builder, Herbert Green, 819 Ramona Ave., Albany. COTTAGE, 5-room frame and plaster, \$3250; E S 34th bet. Nevin & Barrett; owner and builder, Jas. Hamilton, 2005 21st St., Oakland. COTTAGE, 3-room frame, \$1550; E S South 15th bet. Maine and Virginia; owner and contractor, James J. Elliott, 636 E 14th St., Oakland. AUTO cab, frame and plaster, ten appts., \$10,000; W S San Pablo bet. McBryde and Gleam; owner, Edw. Coffinger, 6321 Rover, Oakland; contractor, Carter H. Johnston, general delivery, Richmond. COTTAGE, 5-room frame and plaster, and garage, \$4500; W S 22nd bet. Roosevelt and Clinton; owner and builder, David Dryden, 903 Neilson, Albany.

BUILDING PERMITS

STOCKTON

SERVICE Station, \$1000; 601 E Weber Ave.; owner, Dr. F. A. McCan, 601 E Weber Ave., Stockton.

BUILDING PERMITS

SACRAMENTO

APARTMENTS (24 rooms), \$14,000; No. 1416-18-20-22 18th St., Sacramento; owner, A. C. Anderson, 1825 O St., Sacramento; contractor, J. Pedone, 914 S St., Sacramento. RESIDENCES (2) 6-room, \$5800 each; No. 1112-16 Swanton drive, Sacramento; owner, Robertson-Cavan Co., 819 J St., Sacramento; contractor, E. A. Corum, 2665 Donner St., Sacramento. RESIDENCE, 5-room, \$5000; 340 37th St.; owner, W. B. Phillips, 1897 11th Ave., Sacramento. RESIDENCE, 4-room, \$3000; 4124 I St.; owner and builder, E. L. Eachus, 2175 Weller Way, Sacramento. RESIDENCE, 7-room, \$5000; 4301 T St.; owner, John Simmons, 2521 51st St., Sacramento. RESIDENCE, 7-room, \$7000; 2549 6th Ave.; owner and builder, N. H. Lund, 330 Cutter Way, Sacramento. APARTMENTS house, 32-room, \$25,000; 2204 H St.; owner and builder, A. E. Hammond, 1604 V St., Sacramento. RESIDENCE, 6-room, \$4500; 701 41st St.; owner, J. P. Atcheson, 820 4th St., Sacramento; contractor, C. C. Ruby, 4800 T St., Sacramento.

COMPLETION NOTICES

SACRAMENTO COUNTY

Recorded	Accepted
Sept. 23, 1930—35th, 36th, V and W Sts. Sacramento City School Dist to whom it may concern.....	September 23, 1930
Sept. 27, 1930—N 60 FT of S 95 ft of Lot 1971 W & K Tract 24. Talcott and Rachel R. Gawne to whom it may concern.....	September 1, 1930
Sept. 30, 1930—1 ACRE IN S COR of 90.40 acre tract in Gardiner Imp. Co., Sacramento. Jewell Gardner to whom it may concern.....	Sept. 15, 1930

LIENS FILED

SACRAMENTO COUNTY

Recorded	Amount
Sept. 24, 1930—NE ¼ LOT 3, all Lot 4, K, L, 6th and 7th Sts., Sacramento. Michel & Pfeffer Iron Works vs Industrial Constr Co and Louis B Lurie.....	\$165.50
Sept. 23, 1930—E ¼ LOT 3, all Lot 4 K L 6 7. Frank Z Ahl vs Industrial Const Co et al.....	\$465
Sept. 23, 1930—E ¼ LOT 3, all Lot 4 K L 6 7. Latourette-Fical Co vs industrial Const Co et al.....	\$4031.33
Sept. 27, 1930—SE SIDE OF DEL Paso Blvd (200x90-ft) 2803-30 from SW corner lot 7 blk 3, North Sacramento Sub 1. Walter Webb and Nellie D White as Sacramento Motor Exchange vs R Cook and George Sinis and North Sacramento Land Co.....	\$347.05
Sept. 27, 1930—LOT 186 New Era P. Carlo Grossi vs Wm and Josephine Smetherham, ux.....	\$200
Sept. 27, 1930—LOT 4 and E ¼ lot 3 K L 6 7. O F Larson & Son vs The Industrial Const Co.....	\$355

BUILDING PERMITS

FRESNO

ALTERATIONS and additions, \$1950; No. 1101 Broadway, Fresno; owner, Goodman's, Premises; contractor, Neale Rainbow Light Co. ALTERATIONS and additions, \$2000; No. 1022 Broadway, Fresno; owner, A. B. Knap, Premises; contractor, C. E. Millhollin. GREASE rack, \$1200; No. 215 Broadway, Fresno; owner, Pashayan Brothers, Premises. ALTERATIONS and additions, \$3000; No. 758 Broadway, Fresno; owner, O. W. Hunsaker; contractor, R. Pedersen. DWELLING and garage, \$6400; No. 1506 College St., Fresno; owner, Jacob Richter, 2548 White St., Fresno; contractor, J. R. Church, 221 North U St., Fresno. DWELLING, \$1300; No. 2051 Thomas St., Fresno; owner, Mrs. M. A. Brandt, Premises; contractor, Al McNair, 403 Echo St., Fresno. DWELLING, \$5000; No. 948 Echo St., Fresno; owner, Mark Busacco; contractor, Taylor & Wheeler, Power Co. Bldg., Fresno. DWELLING and garage, \$3000; No. 232 Olive St., Fresno; owner, Fresno Home Builders, 1231 Broadway, Fresno. REMODEL dwelling for store, \$2000; No. 440 S-Sutter St., Fresno; owner, F. M. Cantelli, Premises; contractor, Ecker & Stegmiller, 2054 Taylor St., Fresno. ALTERATIONS and additions, \$1000; No. 1201-13 Broadway, Fresno; owner, F. Hemi and S. Sankawitch Premises.

COMPLETION NOTICES

FRESNO COUNTY

Recorded
Sept. 25, 1930—LOT 21. Accepted
Terrace, Fresno. Bert Cooper to
whom it may concern. Sept. 24, 1930
Sept. 22, 1930—LOTS 1 AND 2 BLK
23, Fresno. S C Hannibal to whom
it may concern. Sept. 1, 1930
Recorded Accepted
Sept. 24, 1930—LOTS 30 AND 31
Blk 7, Recreation Park, Fresno. H
M Little to whom it may con-
cern. Sept. 23, 1930
Sept. 26, 1930—LOT 205, Washing-
ton Col. Peter Bopp to whom it
may concern. September 24, 1930
Sept. 26, 1930—LOTS 33 and 39,
Loneoconhurst. John Johnson to
whom it may concern. Sept. 24, 1930
Sept. 23, 1930—LOT 8 N Elmhurst.
John C Golden to whom it may
concern. September 22, 1930
Sept. 23, 1930—REAR 55-4 FT LOTS
9 to 12, Cooper Addn, Selma. J
W Baldwin to Squire Cooper. Sep-
tember 13, 1930

OFFICIAL PROPOSALS

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be re-
ceived at the office of the State High-
way Engineer, Public Works Build-
ing, Sacramento, California, until 2
o'clock P. M. on October 22, 1930, at
which time they will be publicly
opened and read, for construction in
accordance with the specifications
therefor, to which special reference is
made, of portions of State Highway,
as follows:

Los Angeles County, between four
miles north of La Canada and Colby
Canyon (VII-L-A-61-A), about five
and three-tenths (5.3) miles in length
to be cleared.

Imperial County, between Arroyo
Salado and the northerly boundary
(VIII-26-D & E), about thirteen and
one-tenth (13.1) miles in length, to
be graded and paved with asphalt
concrete.

Proposal forms will be issued only
to those Contractors who have fur-
nished a verified statement of ex-
perience and financial condition in
accordance with the provisions of
Chapter 644, Statutes of 1929, and
whose statements so furnished are
satisfactory to the Department of
Public Works. Bids will not be ac-
cepted from a Contractor to whom a
proposal form has not been issued
by the Department of Public Works.

Plans may be seen, and forms of
proposal, bonds, contract and speci-
fications may be obtained at the said
office, and they may be seen at the
offices of the District Engineers at
Los Angeles and San Francisco, and
at the office of the District Engineer
of the district in which the work is
situated. The District Engineers' of-
fices are located at Eureka, Redding,
Sacramento, San Francisco, San
Luis Obispo, Fresno, Los Angeles,
San Bernardino and Bishop.

A representative from the district
office will be available to accompany
prospective bidders for an inspection
of the work herein contemplated, and
Contractors are urged to investigate
the location, character and quantity
of work to be done, with a representa-
tive of the Division of Highways.

It is requested that arrangements for
joint field inspection be made as far
in advance as possible. Detailed in-
formation concerning the proposed
work may be obtained from the dis-
trict office.

No bid will be received unless it is
made on a blank form furnished by
the State Highway Engineer. The
special attention to prospective bid-
ders is called to the "Proposal Re-
quirements and Conditions" annexed
to the blank form of proposal, for full
directions as to bidding, etc.

The Department of Public Works
reserves the right to reject any and
all bids or to accept the bid deemed
for the best interests of the State.

DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS.

C. H. PURCELL,

State Highway Engineer.

Dated September 24, 1930.

ADVERTISEMENT FOR BIDS

Subject to conditions prescribed by
the undersigned, sealed bids are in-
vited for installation of (1) Plumbing
Equipment, Heating and Ventilating;
(2) Electric Equipment; (3) Refrig-
eration and Air Conditioning Apparatus
in the buildings of the Engineer-
ing Group, University of California,
Berkeley, California. No bids received
after 11:00 A. M. Monday, October 6,
1930. The right to reject any and all
bids is reserved. For full information
apply to Cashier's Window, California
Hall, University of California, Berke-
ley. A deposit of \$100 is required for
each set of Drawings and Specifica-
tions.

THE REGENTS OF THE UNIVER- SITY OF CALIFORNIA

The Helund Western Lumber Com-
pany, financed by Spokane men, has
strated erection of a mill on the Du-
wamish waterway that will involve an
expenditure of \$200,000. The plant will
be ready for operation Jan. 1. Dock-
ing facilities for both coastwise and
overseas ships will be provided.

SALESMAN WANTED

WANTED — Experienced salesman
for Southern California territory to
represent nationally known Eastern
manufacturer of fireproof building
products. Party must have several
years previous experience calling on
architects and positively well familiar
with building construction. This is a
splendid opportunity for qualified party
to develop substantial earnings.
Reply in confidence stating previous
positions and nature of work in each,
together with your present age. No
consideration given unless complete
past details are mentioned. Address
BOX 15, % Daily Pacific Builder.

ATTORNEY'S FEES IN LIENS

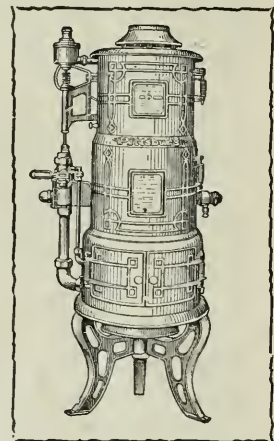
The Lien Law does not provide for
Attorney's fees in case of foreclosure
on liens. If you desire to do for this
point you should have a printed
clause on your contracts whereby the
purchaser agrees, in case of any suit,
to pay all court costs and a reason-
able attorney's fee. (Orange County
Exchange Bulletin).

TO ESTABLISH MILL

H. W. La Farniere, formerly en-
gaged in the sawmill business near
Dorris, Calif., has purchased a tract
of timber of some six million feet and
will construct a mill to cut upwards of
25,000 feet a day at Lakeview, Ore.

Of the private lands secured there
is between five and six million feet of
pine and a considerable quantity of
forest timber also adjoins the tracts.
A large portable mill now owned by
the purchaser will be moved to the
site at once and it is expected to have
the mill in operation within the next
two weeks.

The new mill will be located about
a mile and one-half south of the Ber-
land & White mill in the same terri-
tory.



A "Pittsburg" Auto-
matic Water Heater
installed in the Home
indicates high quality
throughout.

Recommended and speci-
fied by all the leading ar-
chitects, plumbers and
builders.

Consider the high merit
of the Pittsburg coupled
with "Pittsburg Perfect
Service."

"Hot water quick as a
wink."

Pittsburg Water Heater Co.

Makers of "Pittsburg Automatic"—"Bungalow Automatic"
Storage Systems and "Lyon" Tank Water Heaters.

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BUILDING *and* ENGINEERING NEWS

Publication Office
547 Mission Street

SAN FRANCISCO, CALIF., OCTOBER 11, 1930

Published Every Saturday
Thirtieth Year, No. 41



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FRESNO COUNTY HIGHWAY BUREAU TO REORGANIZE

Virtual abolishment of the Fresno County highway maintenance department and the placement of County Surveyor Chris P. Jensen as consulting engineer in road work carried on by the various supervisorial districts has been agreed upon by the Fresno County Supervisors.

It was stated that the highway maintenance department is to be abolished because it has outlived its usefulness and that Jensen, who made the suggestion for the change in system, can be used to better advantage in counseling with the supervisors on the road problems of the various districts.

Under the proposed setup, which the board will soon formally place into effect, Jensen will practically oversee road district highway work. He will make up the budgets for road work and will supervise the control and expenditure of money for highway maintenance. All requisitions and payrolls, after January 1, will be subjected to his scrutiny and approval.

Full details of the new plan remain to be worked out, it was stated by the board. Present employees of the highway maintenance department will either be rehired or absorbed in the road district crews, it was stated.

PUTS UNEMPLOYED UP TO EMPLOYERS AND UNIONS

"No town should permit a worker whose taxes and buying power support it, to become a charity case or to move out if it is at all possible to find the right job for him. No industry should lose a skilled worker who has spent his life learning his trade, because the skill, efficiency, and loyalty of its workers are an industry's greatest assets. Any trade union which permits a cardholder to go idle is failing in its first obligation."

"When unions and trade associations realize that employment agencies are the only logical machinery for minimizing such unemployment as seems inevitable, then will the unemployment problem be on the way to solution."

Sam A. Lewisohn, vice president Miami Copper Co., in the current Engineering and Mining Journal, summarizes his views of how this worldwide unemployment problem can be solved.

Mr. Lewisohn sees no excuse for seasonal and casual unemployment; is convinced that unemployment caused by changing demand, new product development, etc., can be anticipated and prevented by managements with vision; suggests that strong attacks at the types of unemployment for which there are remedies might do much to eliminate the cyclical type now baffling the world.

Ralph Wyckoff, San Jose architect, has been elected president of the San Jose Commercial Club.

TREATED LUMBER IS URGED FOR THE HOME

An annual loss of approximately \$45,000,000 caused to houses and buildings in the United States through insect attack and decay of their wooden members exposed to moisture or in contact with the ground can be considerably reduced by the use of treated or chemically preserved lumber, according to Irving B. Hiett, realtor and building authority of Toledo, Ohio, and a member of the National Committee on Wood Utilization of the Department of Commerce.

Mr. Hiett, who is a past president of the National Association of Real Estate Boards, said that the wood utilization committee, in co-operation with the Ohio Retail Lumber Dealers Association, is seeking to eliminate this yearly waste, a part of which occurs in Ohio, by familiarizing the building public with the advantages of treated lumber for house and small building construction. Heretofore, its use has been confined largely to railroad and industrial projects, but now this material is being made available in Ohio through retail lumber yards in small quantities and in sizes suitable to home building.

"Treated Lumber, Its Uses and Economics," a bulletin just published by the National Committee on Wood material in house, small construction and farm buildings, and is being given a wide distribution in the state as a part of the general waste elimination movement, according to Mr. Hiett.

Damage by insects to lumber and timber in service is done chiefly by termites or "white ants," the bulletin says. These insects are most prevalent in the Southern States but the damage which they cause in the Corn Belt and the Central Western States is almost as great as in the South. The preservative treatment of lumber used for the sills, joists and foundations of a house or in other places where the wood is exposed to moisture or near the ground makes it resistant to the inroads of insects and decay. In order to make supplies available to the home owners and small users of lumber, the National Committee on Wood Utilization is sponsoring the retail distribution of this material.

The treated wood bulletin can be obtained at a nominal charge from the Superintendent of Documents, Government Printing Office, Washington, D. C., or through Co-operative Offices of the Bureau of Foreign and Domestic Commerce, Department of Commerce, at Toledo, Akron, Cleveland, Columbus, Dayton and Cincinnati.

Isaac Pearson, 81, retired lumber man of Sacramento, died in that city October 4. A brother and three nephews survive.

CONCRETE AGGREGATES ARE MEASURED BY WEIGHT

In an increasing number of states, highway department specifications require that concrete aggregates, especially on bridge and culvert construction, be measured by weight. A convenient device for quickly and accurately measuring pre-determined amounts of concrete, aggregates by weight has recently been developed by The Knickerbocker Company. It is known as the "Tilt-Weigh" Batcher. Operating entirely independent of the mixer, it can be used to charge any type of mixer equipped with a power loading skip. It is positioned in close proximity to the end of the mixer skip and may be charged by the most convenient and practical method conditions permit. If stock piles are adjacent, materials may be shoveled in. If stock piles are not close enough for this method, materials may be wheeled and dumped into the batcher hopper from a low platform easily constructed of wood. Certain unusual layouts would permit spouting of materials, but ordinarily the wheeling method is most practical especially on bridge construction.

Sand should be placed in the hopper first, so that when a batch of sand and stone is dumped into the loading skip, the stone will be on the bottom. After aggregates are in the skip, cement is added in the usual way.

Scale is constructed with two weigh arms—the sand arm having a capacity of 1100 lbs., the stone weigh-arm a capacity of 2100 lbs.

After the poises on the beams have been set for the predetermined weights of the door of the beam case should be locked so that poises can not be changed. No attempt should be made to weigh with the dial. This is merely a tell-tale to show the approach to balance. When dial shows zero, the beam is in balance. Accuracy of the scale arms can be easily and quickly checked with test weights. A small supply of aggregates should be placed adjacent to the batcher, so that the man doing the weighing can, when necessary, add to or deduct from the material placed in the hopper by the barrow man. In most cases contractors using this batcher find that it does not add a man to the crew. Sometimes the mixer operator trims the load. On some jobs the man handling the cement does it—in other cases the last barrow man.

When aggregates have been weighed, the hopper tilts over, pivoted on two rollers. By means of the wheel, which actuates two sets of toggles, the hopper is quickly and easily tilted to deposit the batch cleanly in the skip.

"Tilt-Weigh" Batcher is built in two sizes—2-bag and 3-bag 1-2½-4 mix. The hopper of the 2-bag size will hold 13 cu. ft.—the 3-bag, 19½ cu. ft.

Isaac Pearson, 81, retired lumber man of Sacramento, died in that city October 4. A brother and three nephews survive.

METHODS TO ELIMINATE UNDESIRABLE CONTRACTORS VIA STANDARDS OF QUALITY

(By Clyde A. Mann in General Building Contractor)

One of the most serious difficulties confronting both the general contractor and the subcontractor is the complete lack of what might be called "standards of quality" applying to the character of complete structures. Without such standards to differentiate good work from poor, the responsible builder cannot be protected from unfair competition. Until we set up some practicable method of classifying work on a basis of its quality, the legitimate builder will be a prey to those whose chief interest in a specification is the possibility of beating it. Good builders submit bids expecting to erect good buildings, but there are apparently many of the profession of speculators who hardly have that expectation.

Believing that no one is more familiar with the methods employed on speculative buildings than the superintendents who have charge of operations, I obtained the comments of nearly a hundred whose work in the aggregate represents each year many millions of dollars. It is impossible to quote names, but the various groups represented the best class of superintendents—men who have a pride in their calling. The consensus of opinion was that the good contractor, that is, the conscientious builder, "got it in the neck." The superintendent's position was also represented as being none too easy. Several of my informants took the situation as a direct challenge to their own reputation.

Owners Responsible

"But what can we do," said one, "when owners deliberately connive with the general contractor and subcontractors to cheapen the structure from the foundations up? In such cases we have to turn our backs on stuff that makes us sick because if we are fussy we get fired. The minute the contract is signed the trouble starts, usually something like this: 'How much, Mr. Contractor, did you allow in your bid for three-coat plastering according to specifications? That much! Well, you can cut out one coat and deduct the difference from your bid.' Right down the list goes the 'gyp' builder and agrees to substitution, elimination, and fraud, to cut on the quality of everything and get a lower cost. Little does he care what his changes from specifications are going to cost the future owner after he sells the structure."

Another superintendent pointed out the fact that although the owners are often responsible for cheapening work, the "Jerry" contractor usually succeeds in doing it. There was general agreement on the fact that specifications were not very hard to evade, particularly if the supervisor was incompetent or supervising from the "shanty."

Architects and their superintendents, where they did not have the full cooperation of owners and were not being retained for supervision, gave very much the same story.

Finance Company Inspection

"Not many speculative builders want real architectural service," one architect explained. "Stock plans, slightly modified, usually serve the purpose. The objective is cheapness without regard to future upkeep costs. Skn here and save there. The results are a warning to the American public but the trouble is the public does not know there is a better way."

The chief inspector of a financing company which has supplied tens of

Because of the recession in theoretically in a position to obtain precisely the grade of work building construction, owners are wary of the bond issues that built them. As futures are of no interest to the speculative builder, the lack of accepted standards becomes a matter of great importance not only to owners, investors in bonds, but tenants as well.

How can a building of highest operating costs expect to survive except on the highest possible rents? Better built and better planned buildings might drop their rent schedules and still make money. The bid for tenants would be on the basis of comfort and satisfaction as well as on rental rates. Such buildings would have the prospect of success that inferior structures would not have.

The quality of the construction decides the depreciation. A check-up of comparatively new buildings, erected within the last seven to ten years in a typical locality, indicates a large number already showing signs of obsolescence. It is noteworthy that among these there is a large proportion that have proved unsuccessful from the investor's viewpoint. Other buildings in the same locality are growing old gracefully and will apparently continue to serve their purpose with only a normal upkeep for perhaps fifty years. That may be said to indicate a depreciation rate variation from six to even seven per cent, down to one and one-half to two per cent. Project that depreciation forward for a ten year span; in one case the margin of safety of a 50 per cent loan has been wiped out; in the other the margin has been reduced by only 20 per cent. The day is at hand when the building with a low depreciation rate and a low upkeep and repair expense will have premium loans more in keeping with the facts. The lenders of money for buildings have played safe if they were conservatives and loaned less than buildings deserved, or they have made loans without regard to facts because the public was going to furnish the money through bond issues. In either case, the contractors and every one down the line suffered from the system.

millions for speculative builders put the matter quite clearly:

"How can a contractor do good work when the owner is clamoring, 'Cut the cost,' and agreeing to any old construction tricks that will complete the building cheaply and quickly so it may be sold? The old-line contractor is at a disadvantage. This inspection service for the finance company is comparatively new and we have to 'talk turkey' to the contractors and subs who do most of the speculative work. When we first began to say, 'Tear that out and do it right or you don't get any money,' they made a terrible squawk. But they soon learned to change their previous customs. Trouble is they figured to build a third-grade building and collect for a second-grade building, while the quality builders were bidding on first-grade construction and nothing else. The public utility companies and federal work has to be first-class, but they haven't been in other types, any enforceable standard."

When a man pays for an all-work suit and gets one made of shoddy he kicks, and very properly. But in the field of building construction any standards for complete structures have been conspicuous by their absence, with demoralizing results for all contractors, as well as architects and dealers in first-class materials and equipment.

In bidding for a contract without a quality standard, the reputable contractor, subcontractor, and all their building trades are toyed with by direct competition with the producers of shoddy buildings, possessing an amazing ability for deception and substitution. The pride of good craftsmanship was given one painful wallop after another until the awards by the New York Building Congress began to revive the zeal for craft traditions. The net result of the existing vagueness about grade of structures, as affecting the investment, is the variation in operating costs, in the rate of inevitable depreciation, and in the permanency of occupancy, which is reflected in the varying results of building loans, particularly those floated with the money of the public. The outstanding total of all issues of mortgage gold bonds for buildings east and west, north and south, is given by the New York Real Estate Securities Exchange as between eleven and eighteen billion dollars.

Building managers who study costs in relation to arrangement and size and plan of completed new building are beginning to find amazing variations in such items as percentage of occupancy and cost of fuel; important items, too, to the operating company. These factors are built into the struc-

tures as the result of plans and specifications and decide the success or failure of many well-located buildings and of the bond issues that built them. As futures are of no interest to the speculative builder, the lack of accepted standards becomes a matter of great importance not only to owners, investors in bonds, but tenants as well.

How can a building of highest operating costs expect to survive except on the highest possible rents? Better built and better planned buildings might drop their rent schedules and still make money. The bid for tenants would be on the basis of comfort and satisfaction as well as on rental rates. Such buildings would have the prospect of success that inferior structures would not have.

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The "Stabler" Plan

What is true of large buildings is true also of dwellings and vice versa. The plan proposed some years ago by Walter Stabler, then controller of one insurance company lending \$75,000,000 a year for building purposes, applied primarily to dwellings; but, in a somewhat different form, it may be and no doubt will be applied to larger structures. When advocating his plan for the construction of dwellings, Mr. Stabler said:

"In New York just before the great war began, at several meetings of representatives of lending institutions and private building-loan operators, it was proposed that a bureau should be established by the lenders. To this bureau were to be sent all plans, and specifications for buildings, upon which loans were desired from any of the lenders. The architects and engineers employed by the bureau were to examine all plans and specifications, and if approved to so notify the lender. If the loan was to be made, the building was to be examined during construction by architects of the bureau and certificates issued to the builder for payment by the lender. When the building was finished a certificate of completion was to be issued by the bureau to the lender; also a certificate of quality of the building

was to be issued by the bureau to the builder. The production of such a certificate by the builder would at once satisfy a buyer that since the house had been carefully built under such rules and attention by disinterested experts, the buyer ran no risk of getting into such troubles as I have heretofore referred to.

"The beginning of the war prevented the carrying out of this plan in New York, but I hope it may be revived as it is much needed there.

Establishing Bureaus

"The plan I suggested was the establishment in every city or town, where possible, of a bureau to supervise the construction of all dwellings and other buildings where loans were wanted from local lenders, or from local individuals, firms or institutions, representing lenders from other places. The bureaus may at first be financed by the lending interests, but ultimately they should be self-supporting from charges made by the bureaus to the borrowing builders. I suggested that a specially prepared certificate be given to builders of approved houses, a house of first-class construction and finish to be described in the certificate as 'Class A' house, and a house not quite so good as a 'Class B' house. In a very short time, and with the publicity that this plan will surely receive through the press, and from the efforts of the builders, materialmen, and realtors, the public who buy homes will begin to ask builders for these certificates and failing to get them will not buy. I predict that in any city where this plan is put into effect will not be long before all houses built with borrowed money will be constructed under bureau supervision, with the certain result of driving out of business the dishonest or ignorant builders, and insuring to buyers honestly built and durable houses.

"And the lending interests, including those wonderful helps to home owners, the building and loan associations, should insist that houses built with the help of their funds must be built to deserve the certificate of merit, or funds will not be forthcoming."

Although the comparison may at first seem far-fetched, Mr. Stabler's proposal is very similar to the solution applied years ago to the problem of shipping. It was first corrected by the inspection and rating system under Lloyds Register of Shipping, and more recently under the rules of the American Bureau of Shipping. In 1925 there were 32,956 vessels afloat throughout the world, and of that number 15,514 were under Lloyds inspection and rating. The lives of shipbuilders have been immeasurably brightened by the standards of merit of ship structures complete. It is easy to see that the same system applied to buildings would remove from the contracting business a great many pitfalls and handicaps which exist today. I talked to Lloyds Register officials and here is the opinion expressed by the Chief Surveyor:

"I am in receipt of your letter of the 13th inst. and also the copies of articles which appeared in the New York Times and Herald Tribune in regard to setting up an organization to assign ratings to buildings.

"I have perused these articles with considerable interest and I can quite readily see the analogy which exists between the building of office structures and suchlike, and the building of ships.

"To give you a general outline of the plan of this Society, I may say that plans of ships proposed to be classed are first submitted for criticism and approval, the materials entering into the construction are tested in the presence of our Surveyors at the point of manufacture; the construction of the ships is supervised through its various stages by our Surveyors who

then report upon the quality of workmanship and materials.

"This report is then considered by a Committee, who assign the class.

"Subsequently, the vessel is submitted to inspection at stated intervals to ascertain that she is being well maintained in order to retain her class.

"It should be quite obvious that the principles applied to the classification of ships could very readily be applied in the rating of building structures.

"With regard to your inquiry regarding the influencing of men appointed to the duties of supervising the proper performance of the work, it may be said that those engaged in the building and operating of shipping do not lend themselves generally to the practices referred to by you, and partly due to this and to a careful selection of Surveyors by our Committee, who at all times treat the Staff with the utmost consideration and generosity, we have never, to the writer's knowledge, experienced any difficulties of this kind.

(SGD) J. O. CRENCIL,
Chief Surveyor."

Rather interesting, this, considering the fact that the New York Building Congress has had a similarly favorable recommendation from its Technical Committee, the Committee on Standards which produced the excellent "Standard Specifications for New York City." As a result of that comment by Chairman William Arthur Payne, the Executive Committee took steps to get the big lenders, underwriters and owners to join in enlarging a small organization, which had succeeded in the rating of dwellings in Detroit and Chicago, to one adequate to cope with the problem of building in New York City.

Possibilities in Building

A Lloyds register of building, known as Certified Building Registry in the United States has a multitude of possibilities. It would be no more mandatory than Lloyds Register or a registry for Hereford cattle; the moving force is the competitive advantage to owners, and the safeguards to lenders and fire underwriters. With more exact information in hand about good buildings the loans on them should and could be made liberal—in itself an incentive to builders to begin competing on quality. That would be the first step toward putting the conscientious, good builders on a fair basis of competition with the less responsible.

The Certified Building Registry took a leaf out of Lloyds Register plans when it began creating Rating Code Committees of experts for each type of building. The "Technical Committee" of Lloyds Register is the only one authorized to change the rules. And those rules from the basis of contract between shipbuilders and shipowners, between shipowners and merchants (operating companies) and charterers, and between all four and the underwriters. The only difference is that the Code for Rating each type of building will be revised each year by the committee responsible for that type of building code.

In this way financial benefit will attach to proof of good rating, creating an incentive to builders, speculative or otherwise, to compete as to quality. This furnishes a fulcrum for leverage in favor of good construction, one far more potent than city ordinance requirements, which are at best minimum requirements and enforced by an inspection service that is necessarily limited.

What yardstick can be used today

to show the improvements of a building as the result of modernizing it? What basis have lenders for making loans to owners for modernizing expense? Rating of course would furnish that yardstick. I have seen it applied in an interesting way. A very old stone house was transformed at moderate expense, electrified, heated by hot water, insulated at upper ceilings and re-arranged with new plumbing upstairs and down. The old home was durable, but the new one was durable and many other things. From a Class D house rating 45 it became a Class AA house rating 85 plus. This was an investment that paid.

Certified Registry

The credentials of Certified Building Registry showed that in the dwelling field "rating" was a demonstrated success. The Detroit Board of Commerce asked the chairman of its Real Estate Division who was Louis G. Palmer, now president of the Michigan Real Estate Association, to investigate and report. He did it by having some houses surveyed and detailed "ratings" prepared. This was done on the basis of a "Code for Rating Dwellings Costing \$25,000 or Less," which had been revised in accordance with recommendations of the United States Bureau of Standards, the Technical Secretary of the American Institute of Architects, and others. Mr. Palmer put his conclusions in the following words:

"The work of the Certified Building Registry is becoming well known to many of our local civic bodies, financial houses, and especially realtors doing a building business. Much interest displayed in future benefits to be derived from rating. It will circumscribe activities of the unscrupulous and inefficient and promote business of those organizations conscientiously seeking to produce a better building product for less money. Every builder has accomplished an enviable record in this regard except the building trades industry. It can and will be accomplished only when all good builders, financial houses, and realtors unite in a good constructive program and insist upon adoption of rigid minimum standards for various classes of building construction. The Registry service should be very helpful."

Prospects in Housing

One great prospect for new construction in large cities is the replacement of slums. Former Governor Alfred E. Smith of New York is President of the Housing Association which a few years from now expects to spend many millions in such replacements.

"The financing of housing construction of this sort has suffered particularly from lack of standards of excellence. Contractors looking forward to the replacement of the slums in big cities will do well to read the following comment of Lawson Purdy, one of New York's foremost housing experts. As head of the Charities Organization Society, he has had a long experience with housing plans and their financial problems. I am privileged to quote the following from a recent letter:

"I am very much interested in the plans you have described to me for the organization of a corporation to rate buildings for dwelling purposes having in view the various qualities which a building should have to make it safe, sanitary, and a good permanent investment. The country generally has suffered from poor planning of dwellings, single-family, two-family, and multi-family, and the poor

building such houses. A system of giving a rate to a dwelling of any class which would fairly weigh the different qualities the building should have and then give it an appropriate rating would be of enormous assistance to buyers, lenders, and the public generally.

"I have a special interest in multi-family houses because they predominate in the City of New York. It has been the practice to a degree of lenders to base the amount of the loan on a multi-family dwelling almost exclusively on its cubical content. This has discriminated against houses that covered a smaller percentage of the lot, which are better planned, cost less per square foot of rentable area than the poorly planned house of greater cubical content. It has been a direct discrimination against such planning as will produce a house that will be a good, substantial, permanent investment, easy to rent and to keep full, as compared with a poorly planned house of a greater cubical content which will not rent so well and will not be so good an investment nor so good for the persons who dwell in it.

"We have been afflicted with thousands of single-family houses spaced so closely together as to be a serious fire hazard and so poorly built that maintenance charges are grossly excessive.

"Such a plan as you propose can be so developed that it will afford an insurance to buyers and lenders of the character of the construction actually employed and the value of the planning. It is needless to say that if a house rated 'I' is the best of its class and another rated 'IV' is the poorest of its class, number 'I' should sell for more money and should carry a heavier loan.

"It is essential to the proper conduct of the corporation you propose that it shall have on the board experienced men who represent architects, engineers, building experts, and, I should hope, also city planners and housing experts. A board so composed could see that a good job was done and would carry with it the confidence of the public."

When such men as Mr. Purdy so ardently advocate a remedy that will aid the reputable contractor, and when the same plan is also advocated by outstanding members of the American Institute of Architects, the opportunity is open for contractors to put their shoulders to the task of bringing about such an organization.

The whole problem has been summarized by the Civic Development Department for the Chamber of Commerce of the United States. This Department deals with construction and has been sympathetic but not aggressive. The report states that rating buildings will:

- "Benefit reputable architects.
- "Relieve reputable contractors of the distressing competition with irresponsible contractors, and the 'chiseling' of owners who sacrifice quality.
- "Help restore confidence of public and thereby help to revive home-buying and building and real estate activity.
- "Improve the real estate investment situation.
- "Enlist the co-operation of competent construction superintendents who want to do their work properly.
- "Encourage good craftsmanship and thereby restore the zeal of building trades for good work.
- "Encourage home ownership by practical protection to buyers.

"Enlarge the market enormously for first-class materials and equipment which are sold on quality, not price.

"Stabilize speculative building on a wholly different standard.

"Improve the rental situation for quality buildings."

LAW GOVERNING OIL BURNING INSTALLATIONS PROTESTED AT PORTLAND

Portland's restrictions on installation of oil burners are too drastic and cause a hardship on the small householder, requiring him to make an outlay of from \$500 to \$600, when such installations could be made for from \$200 to \$300, declares E. Cook, manager of the Leco Oil burner, Seattle, with offices in Portland and Vancouver, B. C., in an appeal to the mayor and council for modification of the installation requirements.

Cook says he makes this appeal in behalf of his own concern "and other companies in the same business." He asks that the council repeal the requirement that each oil burner within the city limits shall have the label of the underwriters and wants home owners to be permitted to install gravity feed burners supplied from a 45-gallon to 200-gallon tank above ground or in suitable basement space, installed under city inspection, with larger installations to have underground tanks as at present.

Cook asks for a hearing before the council.

\$20,000,000 WATER AND POWER PROJECT PROPOSED

Application has been filed with the State Department of Public Works, Division of Water Resources, Sacramento, by the Metropolitan Water District of Southern California, seeking authorization to appropriate waters and construct a dam in San Bernardino County, to impound 717,000 acre feet of water from the Colorado river.

The diversion system is to cost \$20,000,000. The concrete dam is to be 270-feet high and 590-feet long. The power plant is to have a capacity of 168,000-horsepower.

The impounding area is to include lands in San Bernardino County, California, and Yuma and Mojave Counties, Arizona.

WEBBER CONSTRUCTION FILES NOTICE OF APPEAL

The Webber Construction Company has filed notice in the superior court at Stockton, of intention to appeal from the judgment of the court and denial of motion for a new trial in the former's suit against J. E. Johnston and the Pacific Indemnity Company.

The plaintiff sued for \$17,606.85 and costs, charging that Johnston failed to comply with a contract to take crushed rock from the Webber Construction Company on the Redwood highway job between Wilson Creek bridge and the Klamath river bridge.

A jury recently brought in a verdict in favor of Johnston.

STEEL EXPORTS GAIN

Steel exports from the United States for August amounted to 151,225 tons, an increase of 19,463 tons, or 14.8 per cent, over the July total.

The Commerce Department, in reporting the gain, notes that imports of steel for the month had not shown a similar increase.

SUPERBO WATER HEATER SAID TO BE EXEMPT FROM 'LIMING'

A new method of heating water with the greatest amount of efficiency, and claimed to be exempt from "liming," has been developed by the Superbo Water Heater Company.

"Liming" is one of the most provoking difficulties in connection with water heaters and is the result of precipitation of lime in the water at a certain temperature which, in the course of time, builds up a coating that impairs the efficiency of the heater.

The new system of heating devised by the Superbo Water Heater Company is a departure from the coils and spreaders long in vogue and involves the use of a special "baffle-core flue" which, the manufacturers say, insures perfect combustion. There is a smooth surface on the inside and outside of the flue walls and therefore nothing to interfere with the free gases or the circulation of the water. This new idea has simplified the construction of the Superbo heaters to such an extent, the company declares, that it is now prepared to offer the trade for the most efficient, durable and safe water heater for the lowest price. A safety device shuts off all gas flow if the pilot light is accidentally extinguished.

Superbo heaters have been made and sold on the Pacific Coast for more than sixteen years. Heretofore the management's slogan has been quality, and quality only. Now, due to the new system, it will be both quality and price, they say.

The San Francisco office of the company is located at 557 Market St. with Mr. C. H. Miller in charge.

STRICKLIN NAMED OREGON STATE ENGINEER

Appointment of C. E. Stricklin as state engineer of Oregon, succeeding Rhea Luper, resigned, is announced by Governor Norblad. The State Reclamation Commission has approved the governor's choice, a measure required by law.

Stricklin has been employed in the state engineer's office since 1912 with the exception of some time spent on the Mexican border in 1916 with the third Oregon regiment. He was appointed assistant engineer to Percy A. Cupper and was retained in that position by Luper when the latter became engineer in 1923.

Stricklin, born in Oregon, was graduated from the school engineering of the Oregon state college in the class of 1911. He spent a year in the university of Idaho. He was also graduated from the Willamette University Law School.

No changes in the personnel of his department are contemplated by the new engineer.

\$6,662,761 IS BUILDING TOTAL FOR LOS ANGELES

During the month of September, 1930, the Los Angeles city building department issued 2992 permits with an estimated valuation of \$6,662,761, as compared with 2736 permits with an estimated valuation of \$6,629,710 for the same month a year ago. For August, 1930, the number of permits was 2608 and the estimated valuation was \$6,494,577. Los Angeles' building total for 9 months of the current year was \$58,711,865, as compared with \$47,155,214 for the corresponding period last year.

THE OBSERVER

What He Hears and Sees on His Rounds

The city council of Pacific Grove, Monterey county, has adopted a resolution providing that a clause be inserted in all contracts for future public work requiring the employment of local labor wherever possible.

Woodland city council plans adoption of an ordinance requiring that all buildings erected within the city limits conform to a certain standard and making it mandatory for all contractors to pass examinations such as have been required of electricians and other tradesmen.

C. C. Jarman, city building inspector of Fresno, reports that the termite, or wood boring insect, is active in Fresno and has taken a foothold in the oak flooring of several homes. Jarman advised the spraying of floors with creosote where the insect is discovered.

The Napa city council is considering the adoption of the Uniform Building Code as prepared by the Pacific Coast Building Officials' Conference.

The Sacramento Builders' Exchange aims to co-operate one hundred per cent with the State Department enforcing the license law. It has instructed its secretary to file complaints and authorized him to swear out warrants for the arrest of all unlicensed contractors in the Sacramento district.

Under an amendment to the building ordinance just introduced, the Richmond city council will demand building permits for structures erected on the inner harbor. No fees will be charged for the permits. Only masonry structures will be permitted in the area. Heretofore the city has not regulated, nor has it required a building permit for industrial buildings on the unsubdivided acreage. The amendment prohibits the erection of wood and corrugated iron structures in the district.

The board of Building and Safety Commissioners of Los Angeles has adopted an ordinance requiring every architect, civil engineer, structural engineer, contractor or sub-contractor to have a state license before any permit or license can be issued by the Building Department. It asked the city council, if this meets with approval, to instruct the city attorney to prepare necessary ordinance for enactment. Referred to the building and safety committee of the city council.

An encouraging sign in the construction field is the continuation of advertising planned by the American Face Brick Association for the fall months. More than 13,000,000 advertisements, ranging from a single column full page in four colors, will appear in the general and trade press during the fall.

Publicity in magazines and newspapers also forms a part of the campaign. Articles for magazines and news releases for the newspapers are being offered regularly with the result that many metropolitan papers feature stories about face brick on their building pages.

Since the association began its magazine advertising in 1919, more than \$1,300,000 has been expended in this activity alone.

A plan to place on the November ballot a proposal to raise \$250,000 each year for public school construction by direct taxation is being considered by the Berkeley Board of Education.

The plan is sponsored by Mrs. Robt. Hector, a member of the board who opposed the \$2,000,000 bond issue, defeated at the August election.

The proposed direct taxation plan is legal, according to Sam Cohn, legal adviser for the State Board of Education.

In four years the plan will raise sufficient money for twelve elementary units and the completion of the Berkeley High School project, according to tentative estimates.

The Industrial Committee of the San Francisco Junior Chamber of Commerce is considering whether or not it will present to the next session of the Legislature proposals to give California manufacturers preference within a certain margin over outside concerns in awards for State projects.

The question arose over the winning by a \$12 margin of a contract for steel pier doors for pier 1, on the San Francisco harbor, by an Eastern concern, represented here by Rolph, Mills & Co., over the Kennerston Mfg. Co., San Francisco. The award, made September 17, went to Rolph, Mills & Co. for \$10,445.

The contractors' state license law is being enforced. Since the establishment of the State Department of Professional and Vocational Standards, a total of 426 complaints have been filed. Many of these were settled before any action was taken by the department. Some were settled by the department to the satisfaction of all concerned. In sixty-three cases licenses were suspended and in nine cases the license were revoked.

Recently a Sacramento contractor was fined \$50 and a 30-day jail sentence was suspended. Another Sacramento contractor was fined \$60 for a violation of the safety laws. A Fresno contractor submitted a bid before he secured his license. He was low bidder and refused to go ahead with the job. He was arrested and convicted for operating without a license.

Steady resumption of building activities during the winter months, recovery active by January 1 and a swing toward normalcy during the summer of 1931 are predicted by E. M. Craig, executive secretary of the National Association of Building Trade Employers (Chicago) who made public a survey of conditions in 175 United States and Canadian cities.

He said the low point of depression had passed, and a slow, steady return to activity might be expected.

"One factor intended to aid the nation's building industry to emerge from its depression will be official ratification of the new board of trade claims by the convention of the building trades department of the American Federation of Labor, October 3," he said.

"This is a tribunal established for adjustment of jurisdictional disputes between building trades. Its inauguration was urged by President Hoover, who declared its adoption would maintain public confidence in building."

Pasadena's Board of City Directors recently rejected by a four to two vote the home-labor ordinance, which provided heavy penalties for contractors on municipal jobs who did not hire 75 per cent of their labor crews in that city, as a result of the placing before the board of new facts by City Manager Orlishan. The most serious objection to the law, Orlishan said, was that the measure meant that the county would refuse further aid on local highway projects. In view of the supervisors' refusal to grant aid where any laborer in the county was discriminated against.

Business depression increase in labor efficiency now is evident, notably in building, but it cannot be measured, says The Business Week.

The employer can dictate now. If he is hard-boiled, he gets results.

The main factor working to bring about sizeable reduction in building costs is not reduced prices of raw materials, which are quite moderate, or decreases in wage scales, which are by no means large or general, but willingness of contractors to forego putting normal profits into estimates. If possible, they reimburse themselves by putting pressure on sub-contractors and workmen. If they don't get it back, they have at least kept their organizations running.

A billion dollars will probably be America's loss through bankruptcy this year, directors of the National Association of Credit Men are told by William Fraser, president.

"The annual loss has been approximately \$150,000,000 for the last several years," he said. "Judging from the increased rate of business failures it will likely reach a billion for 1930."

"To this must be added the losses arising from many failures which never get into the bankruptcy courts. Even the richest nation in the world cannot go on making off such a tremendous bad debt loss year after year. Annually it amounts to more than the total value of the Nation's wheat crop and is only slightly under the net operating income of the railroads."

Fraser said the bankruptcy investigation recently ordered by President Hoover "promises to be one of the most constructive undertakings in

At a recent meeting of the Board of Directors and the Advisory Council of the Los Angeles Builders' Exchange, James F. Collins, state registrar of contractors, outlined his policies in the enforcement of the law and modification of some of its provisions which he deemed necessary for better protection of the interests of building owners and incidentally to the advantage of the building industry. He said he believed that adjustment of complaints which would save something for the person who built only once in a lifetime is more important than drastic prosecutions. He favored removal of the \$200 limit on jobs which exempted contractors from the necessity of having a license so that practically all contractors might be brought within its scope. He said 4000 or 5000 small contractors were now evading responsibility under the law through this exemption. Mr. Collins said also he believed the jurisdiction of the Registrar should be extended in order that the spirit and intent of the law might be carried out more fully without going to court.

ALONG THE LINE

The State Board of Architectural Examiners, Northern District, at a meeting on September 30, granted Provisional Certificates to practice architecture in California to:

William Henry Rowe, 1535 Vancouver Ave., Burlingame.

Francis E. Lloyd, 3311 Washington St., San Francisco.

Milton Latham, Carmel, Calif.

James S. Polhemus, former assistant United States engineer at Portland, Ore., died in that city, September 29.

During his career in the engineer's office Mr. Polhemus was identified with nearly every major project in rivers and harbors of Portland and vicinity. He was especially active in jetty work and established jetties at Yaquina and Coos Bays.

Born in Astoria, N. Y., March 26, 1852, Mr. Polhemus came to Portland in 1880. He retired from active service March 25, 1924. He is survived by one son, James H. Polhemus, general manager of the port of Portland, and a daughter, Harriet.

George H. Burnett, operating the Burnett and Sons Planing Mill at Sacramento, died in that city October 1, following a brief illness. Burnett, born in 1868, was the son of the late Henry Burnett, founder of the planing company. His widow, a daughter and sister survive.

The Circuit Court at Detroit, Mich., has been asked to stop the processes of law in order to save the homes of unemployed persons who can not meet their mortgage and land contract payments.

The move was initiated by attorneys for a local radio station. On a petition issued an order, returnable October 9th, requiring the circuit court commissioners to show cause why they should not be enjoined from acting in land contract forfeiture and ejectment cases until further order of the court.

The petition states 30,000 home owners in Wayne County have invested their savings in home but are unable to continue their payments because of unemployment "through no fault of their own."

This situation, the petition states, constitutes a crisis, which "threatens the health, property and very life of thousands of good and worthy citizens and threatens to damage the morale of the people and for many years practically ruin the business of selling real estate."

The court was asked to request the governor to call a special session of the legislature to amend the foreclosure laws.

INCORPORATES

B. Q. Manufacturing Company of Stockton, capitalized for \$500,000, has filed articles of incorporation with Secretary of State Frank C. Jordan. The company will manufacture and market all types of automatic control equipment, according to Ira E. Smith, inventor and organizer of the corporation, whose product is said to be used in many industrial plants throughout the state and on ocean-going vessels. Other incorporators are L. M. Smith and Newton Rutherford.

STATE RULING GIVEN ON BUILDING CONTRACTORS

Attorney General C. A. Sorensen, of Nebraska, has advised the State Board of Control that, while it cannot directly or indirectly exclude employers of non-union labor from the competition for State building construction contracts, the Board, by reason of the "lowest responsible bidder" clause of the statute, "can enforce standards of quality in workmanship for the performance of which only employers of union labor may in many cases be found 'responsible.'"

The Supreme Court of Nebraska, according to the opinion of Mr. Sorensen, determined in the case of Wright v. Hoctor (35 Neb. 342) that under the applicable statutory provisions there can be no express union labor clause or other provision which has the effect of arbitrarily excluding from the bidding employers of non-union labor in specifications, notice to bidders, proposals, or contracts for the construction of buildings by the Board. But under the "lowest responsible bidder" clause of the statute, the Attorney General declared, the Board has a discretionary power in determining the responsibility of a bidder, the exercise of which power will not be set aside unless it is arbitrary or capricious.

In determining responsibility, it is pointed out, the facilities of the bidder for the task, including his ability to supply competent laborers, may be determined. The Board, the opinion states, "may consider labor union standards of workmanship in deciding the responsibility of bidders."

"If, in thus preparing to let contracts for building construction, the Board finds that union wages, hours, apprenticeship and conditions of labor generally make the best quality of workmanship, no reason suggests itself why your Board cannot incorporate that quality of workmanship into the specifications and notify bidders to make their proposals or bids accordingly."

NO STATE LICENSE; DRAWS \$100 FINE

Charged with violation of the state contractors' act, Bert Perkins, proprietor of the Artcraft sign shop of Watsonville, was fined \$100 when he appeared in Justice Phil Hayward's court. Seventy-five dollars of the fine was suspended, pending good behavior. Perkins is the fourth defendant to be convicted since the act was passed in 1929. Perkins' offense was having failed to obtain a contractors' license.

ARCHITECTS' LICENSE LAW VIOLATOR RECEIVES A SUSPENDED SENTENCE

Enri Edouard Cavasso of San Mateo was found guilty of violating the state law governing the practice of architecture in the court of Judge Jackson at Burlingame, last Friday.

Cavasso presented a claim for \$350 to the Jersey Farm Creamery for services in connection with plans for a structure to be located down the Peninsula. The claim, after investigation by the State Board of Architectural Examiners, was denied and proceedings started by the architectural body against Cavasso who was practicing architecture without a certificate as required by the state law. Cavasso faced a fine of \$100 or a sentence of 30 days in jail. Sentence, however, was suspended for six months.

A. L. Bolton represented the architects in the proceedings.

TRADE NOTES

Battery and Electric Depot, Ltd., capitalized for \$25,000, has been incorporated in San Francisco. Directors are W. E. Tennant, H. L. Coggins and E. B. Jones.

Ferlinger Foundry & Machine Works, Inc., of Redding, capitalized for \$25,000, has filed incorporation papers with Secretary of State Jordan. Incorporators are Fred W. Gerlinger, L. C. Gerlinger and Ludwig S. Missigbrod.

Pacific Pavements Company, Ltd. of San Francisco, capitalized for \$10,000, has been incorporated. Directors are O. B. Christensen, J. J. Hurley and E. E. Christensen.

Bush Roofing Co. with branches at San Francisco, San Jose, Stockton, Sacramento and Chico, announces the opening of another branch at San Luis Obispo with Geo. Glavinovich as manager.

AUSTRALIA REDUCES BUILDING MATERIAL VARIETY

The widespread effort to reduce building costs through standardization and simplification of building materials has resulted in a study of the matter by the Standards Association of Australia. The Association found, after conference with architects and manufacturers, that the 150 different varieties of galvanized iron ridging, gutters and downspiping available could be reduced by 70 per cent. One hundred and twenty different sizes of plywood panels for doors were reduced by 60 per cent.

"This course," says the Australasian Manufacturer of Sydney, "is undoubtedly a wise policy to adopt, for there will be a great saving in time and labour in the temporary stopping of machinery for the purposes of re-setting; and, further, this will naturally result, ultimately, in the appreciable reduction of costs of production."

\$5,000,000 FOR WASHINGTON STATE ROADS THIS WINTER

Details of a \$5,000,000 winter road program in Washington state are announced by Samuel J. Humes, director of the Washington State Department of Highways.

The state administration prepares the program as an unemployment relief measure. Bids will be opened this month on ten projects to cost \$1,000,000.

In addition 36 projects remain to be advertised to complete the program outlined by the last Legislature. It was estimated they would cost \$4,000,000.

MOVES TO RENO

Geo. Koster, formerly located at 2355 Leavenworth St., San Francisco, has opened new quarters at 300 California Ave., Reno, Nevada, and will engage in the practice of architecture. Mr. Koster announces he has considerable business in Nevada state and is desirous of receiving catalogs and samples of materials and equipment for all type of structures.

HENRY FORD SEES MINIMUM WAGE IN U. S. AT \$27 A DAY

Henry Ford, in a new book just published, predicts that in 1950 American workmen will receive a minimum wage of \$27 a day, the 5-day week will be observed universally, and there will be no unemployment.

Ford foresees a new industrial revolution in the next 20 years, out of which the worker will emerge a man of leisure, capable of balancing production and consumption and banishing unemployment. His views are set forth in a volume entitled "Moving Forward," written in collaboration with Samuel Crowther.

The wage prediction is based on the rise in hourly stipend since 1910. Twenty years ago Ford was paying an average of 25 cents hourly and now he is paying \$1.

"If wages have been multiplied by four in 20 years they can be multiplied by more than that during the next 20 years," Ford says. "If wages do not continue to increase the fault will be of human one—it will be due to lack of intelligence."

Ford lays down four principles for American industry to follow:

"1. To make an ever-increasing quantity of goods of the best possible quality, to make them in the best and most economical fashion, and to force them out on the market.

"2. To strive always for higher quality and lower prices, as well as lower costs.

"3. To raise wages gradually but continuously, and never to cut them.

"4. To get the goods to the consumer in the most economical manner so that the benefits of low-cost production may reach him."

LOS ANGELES DREDGING WINS COURT FIGHT

The California state supreme court has affirmed \$17,024 judgment granted by the Los Angeles superior court to the Los Angeles Dredging Company against the city of Long Beach.

The suit grew out of channel dredging in Long Beach harbor in 1925. The dredging company was bound by penalties to finish the work in a specified time, but postponed operations 350 hours on the promise of the city to pay \$30 an hour for the consideration.

Cessation of dredging was asked because the operations interfered with swimming and pleasure seekers in the harbor. When the dredging company tried to collect, the city refused to pay, although the council had ratified the contract, on the ground it was not an emergency measure.

FLINTKOTE OPENS OFFICES IN SHELL BUILDING

Marking the advent of another world-wide organization into San Francisco, the Flintkote Company, producers of asphalt shingles, roofings and emulsions, will begin operations on the Pacific Coast within the next ten days, with an investment of approximately \$5,000,000 for factories, warehouses and sales offices.

The company has established Pacific Coast headquarters in the Shell Building. R. T. Perry is manager of the San Francisco division.

Warehouses and sales offices have been located at San Francisco, Los Angeles, Portland and Seattle. From these points sales of asphalt shingles, roofings, building papers, asphalt emulsions, Colas and scores of other asphaltic products manufactured by the Flintkote Company will be handled in all territories west of the Rocky Mountains.

ENGINEERING SOCIETIES EMPLOYMENT SERVICE

Further information regarding positions listed in this column is obtainable from Newton D. Cook, Room 715, 57 Post Street, San Francisco. (Phone Sutter 1684).

R-3335-S ENGINEER, preferably mechanical, 28-35 years old, for cost analysis and time study work. Experience should include both shop and outside construction estimating and preferably some time study work. Salary about \$200 month to start. Apply by letter. Location, Bay Region.

R-3353-S STRUCTURAL DRAFTSMAN, about 30 years old, technical graduate, with experience covering design and layout of steel, concrete and timber structures. Salary depends upon ability. Location, San Francisco.

R-3369-S ENGINEER, mechanical or electrical, not over 30 years, with 3 to 5 years' experience on hydroelectric plant operation for service and testing work. Must have mechanical skill, agreeable personality and be willing to travel. Salary about \$175 month and expenses in the field. Apply by letter. Headquarters, San Francisco.

R-3352-S SALESMAN for building materials and specialties. Should have 4-5 years' experience selling to architects and contractors. Location, Southern California. Headquarters, San Francisco.

R-3349-S SALESMAN, young man with car, to do promotion work for dealers. Must have experience selling roofing to owners. Salary and expenses. Location, Northern California.

R-3331-S CHEMIST, single, for analytical and experimental work in laboratory. Must have experience with ores and metals and some experience in organic chemistry. Apply by letter. Location, Chile.

W-499-C-S CIVIL ENGINEER, graduate with experience in the design and construction of sewers and water works to purchase an interest in an engineering business. Some experience in electrical engineering desirable. Apply only by letter. Location, Kansas City.

L. A. LUMBER DEALERS FORM NEW ORGANIZATION

A new organization has been formed by the lumber dealers of the Los Angeles district to be known as the Lumber and Allied Products Institute of Southern California.

Under the new plan which was put forward by President Harry A. Lake of the California Retail Lumbermen's Association, all the local groups in the district will be allied with the Los Angeles group. About 100 retail dealers have already joined the new association.

Kenneth Smith, manager of the old association, will be general secretary of the new one, having assumed his new duties October 1.

Headquarters of the institute are at 6420 Avalon Blvd., Los Angeles.

NEW PLANT FOR G. E.

Construction of a new \$1,000,000 unit at the Pittsfield plant of the General Electric Company will be started shortly. The structure will be devoted to the exclusive manufacture of transformer tanks and when completed, will be the largest transformer tank shop in the world.

DEWATERING CEMENT SLURRIES BY ELECTRICITY

In most cement plants using the wet process, the clay-lime-stone mixture is ground in water to a slurry and this thick, soupy liquid is pumped directly to the calcining kiln for dewatering and heating to high temperatures to produce the ordinary cement clinker. The dewatering is done in the cooler parts of the kiln close to the stack end while the clinkering is done at the highly-heated end close to the coal or oil burners. It is thought that a saving can be made in fuel consumption and in the size of kilns if part of the water removal could be performed outside of the kiln in more efficient types of dewatering equipment. Continuous suction filters have been used in some of the newest cement plants for this purpose and the raw material is fed into the kiln in a damp condition instead of the fluid consistency.

Tests are being made at the Northwest Experiment Station of the United States Bureau of Mines, Seattle, Washington, in co-operation with the University of Washington, on the removal of water from cement slurries by electrical methods. The electrical process under investigation uses comparatively simple equipment; a tank to hold the slurry, a fixed cathode plate, and a rotating anode drum on which the slurry collects. The partially dewatered material is scraped off the revolving drum in a layer from a quarter to three-eighths of an inch thick containing about 22 per cent water. Preliminary tests with a Seattle cement slurry indicate that about 54 per cent water can be removed with a current consumption of from 0.05 to 0.07 K.W.H. per pound of water, which is only about one-fifth of the theoretical energy necessary to evaporate the water by the usual heating agent, and a mixture of sodium silicate and sodium carbonate has given the most efficient results. This electrical process is now in use in Germany in several plants for dewatering clays in the purification of kaolins and fire clays.

THING GOES SOUTH

Fred Thinge, formerly associated with Latourette-Peal Company of Oakland, and at one time California state mechanical inspector, has entered the plumbing and steam heating contracting business in Los Angeles. He has formed a partnership with C. F. Ballinger and will operate under the firm name of C. F. Ballinger Company with headquarters at 4225 West Tenth St., Los Angeles.

COLLECTS BUILDING CODES

The American Face Brick Association has built up an extensive collection of building codes of the principal cities of the country and now has building codes or housing ordinances from some seventy cities. The Association will gladly assist members and their dealers with code matters.

BOUCHER ENTERS FIELD

The Boucher Company, Ltd., has opened offices in the Pacific National Bank Bldg., Los Angeles, under the management of Ralph D. Hornbrook, who has been identified with the building trades in Southern California for many years. The company will specialize in contractors' surety bonds and insurance, offering a state-wide service through their various offices.

HIGHWAYS ARE LEADERS TO OTHER LINES OF DEVELOPMENT

(Extracts from an address of A. Emory Wishon, vice-president and general manager of the Pacific Gas and Electric Company, at the bi-monthly meeting of the San Joaquin Valley Council of the State Chamber of Commerce, Aug. 23).

We all know that old adage, "All roads lead to Rome." At the height of the Roman Empire, when that empire represented all that was best in art, industry, science, learning and war, this was literally true.

You may say that roads follow industry, science, commerce and civilization, but that is not true. Commerce, industry, science, spiritual and social development follow road development. This has proven true in the past, and it will be true for all time in the future.

Just stop for a minute and let the history of this country spread in sequence before you. The trail builders, the ox team caravans, the railroad builders, and now the highway builders all stand forth as leaders to other lines of development. Yet major road development in this country is comparatively modern history.

The first important road in the United States was the old York Road, between New York and Philadelphia, built by the Colonies in 1711.

In the latter part of that century here on the west coast, the padres built El Camino Real—"The Highway of the King," connecting the old missions of California from San Diego on the south to San Francisco on the north.

The first toll road, the Lancaster-Philadelphia turnpike, 62 miles long, was built in 1792.

The first federal road, built for military purposes, was the old National Pike, or Cumberland Road, and was commenced in 1806.

It may be interesting to you to know that in 1819, only a little more than 100 years ago, two Conestoga wagons carrying freight were regularly dispatched each day from Philadelphia to Pittsburgh. The trip took twelve days, and the price charged was \$120 per ton.

Today what is our highway picture? There are approximately 7,000,000 miles of rural roads in the entire world, 3,000,000 of which are in the United States.

In 1904 the total expenditure for rural roads in the United States was \$59,953,181.

For the year 1928 the expenditure was \$1,423,870,278.

In California the expenditure for rural roads in 1904 was \$2,157,396.

The expenditure in this state for 1928 was \$57,702,384.

When we stop to analyze these few facts we begin to realize the progress made in road development, and following such development we find national development in agriculture, industry, education and social and economic life.

We also find that we are not the only ones to recognize what road development means to all other lines of development. Every state and country now recognizes the part that road development plays in general progress and prosperity, and as a result competition is keen in road development programs.

With such competition we must keep abreast, or lead in economic, commercial and social development.

This is not an idle statement. It is fundamental, almost axiomatic, and is supported from an analysis developed from world history.

About 1902 and 1903 expenditures

on all road development suddenly began to increase by leaps and bounds. Why? In the late 90's there appeared upon our highways the "horseless carriage"—the very name now seems quaint. That vehicle is now an amusing exhibit in certain museums, yet there is no greater difference in the horseless carriage of the 90's and the automobile of today than the difference in the roads of the 90's and the roads of today.

The "horseless carriage" introduced a new mode of transportation, it created road needs and road uses; and road expenditures have increased by leaps and bounds, but road uses have increased in even greater proportions. Today our road problem is still fundamental to our economic and social development, and is attracting the best minds of all countries. Roads must be built, expenditures must be made, and roads should be built where expenditures can be justified. It therefore becomes apparent that road development must be approached in an orderly and scientific manner that the greatest value may be obtained from the dollars spent.

We have our urban, county, state and federal roads, and in addition these various subdivisions of our government are jointly financing many projects. Proper engineering, traffic and economic studies as to location become a fundamental part of the modern road program; engineering laboratory and use tests as to type of construction; equipment and organization for construction and maintenance; proper budgeting of capital and operating expenditures and the most economic and equitable method of financing, are all now factors that are being recognized as vital to proper road programs.

One of the most outstanding accomplishments in furthering development of roads has been the development of the gasoline tax. In 1919 this tax was in effect in four states of the Union, and the total receipts from such tax was \$1,022,514. In 1928 forty-six states in the Union collected \$804,871,766 from a gasoline tax. The fact that the tax for road development and maintenance is paid by the user of the road in proportion to his use, has appeal as an equitable tax to the average citizen, as is shown by the number of states that are now financing road programs from such a tax.

Referring particularly to our California state highway system several outstanding accomplishments have been made within the past several years.

First—The resumption of the new construction on the state highway system, through the passage of the one-cent gasoline tax measure.

Second—The application of the budget system to the state highway expenditures, through which the public is now informed of the manner in which it is proposed to spend state highway money in advance of and not following such expenditures.

Third—The adoption of a definite and orderly policy governing the extensions of the state highway system.

TO CUT FORCE

The Board of Public Works of Los Angeles has ordered City Engineer Jessup to lay off 2400 employees a sufficient number of days each month to make up a deficit of \$253,000 in the garbage and rubbish collection service will be retained at full force.

BUILDING MATERIAL ADVERTISING SHOWS INCREASE IN 1930

Expenditures of \$8,993,505 were made for building material advertising during the past nine months of 1930 in national magazines, national farm magazines and for radio broadcasting, an increase of \$497,430 over the \$2,496,075 which was spent during the same period in 1929. This increase represents a 5.55 per cent increase for the nine months of 1930 over the nine months of 1929, according to the Business Survey Department of Dorrance, Sullivan & Company, New York advertising agents.

The accumulative total for the nine months of 1930 in national magazines was \$8,012,472 as against \$7,554,971 during the same period of 1929, a gain of slightly over two per cent. The accumulative total for building material advertising in national farm magazines for the nine months of 1930 was \$318,841 as against \$503,538 during the same period in 1929, a gain of 2.3 per cent. The accumulative total for radio broadcasting for the same period in 1930 was \$162,192 as compared to \$137,566 during the same period of 1929 which was a gain of 23.5 per cent.

Building material advertising in September national magazines, national farm magazines and for radio broadcasting amounted to \$910,872, a loss of \$105,325 over the September, 1929 figure of \$1,016,197, or approximately 10 per cent.

In national magazines for the month of September, 1930, advertisers spent \$806,122 as compared with \$928,317 in September, 1929, which was a loss of approximately 13 per cent.

National farm magazine building material advertising in September, 1930, was \$69,157, a loss of \$3393 over the September, 1929, total of \$72,550, or approximately four per cent.

Radio broadcast advertising during this period in 1930 amounted to \$35,593 as compared with expenditures of \$15,300 in 1929, a gain of approximately 132 per cent.

OAKLAND BUILDING PERMITS FOR OCTOBER

A. S. Holmes, city building inspector of Oakland, reports the issuance of 360 building permits during the month of September for improvements involving an expenditure of \$533,586. A complete tabulation of the September activities will be found on page three of this issue.

LUMBERMAN PASSES

M. J. Scanlon, 63, pioneer lumberman, who aided in establishing a model village for his workmen in the Powell River section in British Columbia, died in Minneapolis, Minn., October 2. The Powell River village was built in connection with Scanlon's \$55,000,000 plant there.

Scanlon was president of the Brooks-Scanlon Lumber Company of Minneapolis; the Brooks-Scanlon Corporation in Florida; the Bahamas-Cuban Company, and the Powell River Company, British Columbia.

A widow and a daughter survive.

ADOPT STANDARD SPECIFICATION

During the month of September the Standard Specification of the American Institute of Steel Construction was adopted in the cities of Albany, New York and Medford, Oregon. This brings up the list of cities using the Specification to 286.

Building News Section

APARTMENTS

Owner Taking Bids.
APARTMENTS Cost, \$—
RICHMOND, Contra Costa Co., Cal.
Twenty-third St., bet. Clinton and
Grant Avenues.

Two-story frame and concrete apart-
ments and stores.

Owner—John Ambrosio, % Architect.
Architect—James Narbett, 474 31st
St., Richmond.

Painting Contract Awarded.
APARTMENTS Cost, \$35,000
SAN FRANCISCO. NE Broderick St.
and Golden Gate Ave.

Three-story and basement frame and
stucco apartments (12 apts.).
Owner—C. E. Lynn, 1435 Steiner St.
Plans by L. O. Berg, 675 Corbett Ave.

Painting—W. B. Cory, 23 Elsie St.
As previously reported lathing, plaster-
ing and cast stone awarded to D.
F. Sullivan, 121 Henry St.; plumbing
and heating to N. George Veinholz,
1450 Howard St.; brick work to Albert
Nelson, 212 Ocean Ave.; concrete and
excavating to D. Fazio, premises; car-
pentry labor to W. B. Zane, premises.
Owner is taking bids on all other
portions of the work.

Contract Awarded.
APARTMENTS Cost, \$—
REDWOOD CITY, San Mateo Co., Cal.
Main St. bounded by Walnut, Hil-
ton, Maple and Stambaugh Sts.
(200 ft. frontage).

Three-story frame and stucco apts.
(36 apts. and garage).

Architect—Withheld.
Owner—Dave L. Walter, 2193 Broad-
way, Redwood City.
Contractor—John Manning, Sequoia
Redwood City.

Plans Being Completed.
STONE BLDG. Cost, \$50,000
SAN JOSE, Santa Clara Co., Cal.
Sixth and St. John Streets.

One and two-story frame and cast
stone veneer physicians' building
(cover area of 7500 sq. ft.)

Owner—Group of Local Physicians,
including Drs. A. J. Bawchi, T. L.
Blanchard, C. S. Sullivan, et al.
Architect—Herman Krause, P. O. Box
783, San Jose.

Will be known as Physicians' Court.
Bids will be taken in two weeks.

Preliminary Plans Being Prepared.
APARTMENTS Cost, \$70,000 each
SAN FRANCISCO. Location withheld
Two three-story and basement frame
and stucco apartments (18 apts.)
tile roof.

Owner—Withheld.
Plans by Lawrence Ebbehts, 320 Ful-
ton St., San Francisco.

More definite information will be
given shortly. All modern conven-
iences will be installed.

Segregated Bids Being Taken.
APARTMENTS Cost, \$85,000
OAKLAND, Alameda Co., Cal. Exact
location withheld

Three-story frame and stucco apart-
ment with concrete basement (30
2-3- and 4-room apts.)

Owner—A. Jensen, care architect.
Architect—H. K. Jensen, 354 Hobart
St., Oakland.

English type of architecture, com-
position and shingle roof, steam heat-
ing system, and all modern conven-
iences.

Plans Being Prepared.
ALTERATIONS Cost, \$—
SAN FRANCISCO, 499 Buena Vista
Avenue.

Alter residence for apartments.
Owner—Mrs. J. A. Wilcox, 499 Buena
Vista Ave.

Architect—Henry H. Guttererson, 526
Powell Street.

Bids will be taken in two or three
weeks.

Plans Being Figured.
APARTMENTS Cost, \$—
OAKLAND, Alameda Co., Cal. Orange
Ave.-Adams Point District.

Three-story and basement frame and
stucco apartments (90 rooms).

Owner—C. M. Glass & Co., 1404
Franklin St., Oakland.

Architect—Clay N. Burrell, American
Bank Bldg., Oakland.

Segregated bids are being taken by
owners.

Sub-Bids Being Taken.
APARTMENTS Cost, \$300,000
GLENDALE, Los Angeles Co., Cal.
North Brand Avenue.

Four-story and basement brick and
stone apartments, store and gar-
age (120 rooms, 2 stores and 60-
car garage).

Owner—Littchen-Reich Syndicate.
Architect—Lewis A. Palmer, Glendale
Contractor—Leon Reich, Central Bldg.
Los Angeles.

Sub-Bids Being Taken By Owner.
APARTMENTS Cost, \$50,000
SAN FRANCISCO. SW Beach and
Scott Streets.

Three-story and basement frame and
stucco apartments (12 3-rm apts.)

Owner and Builder—Thomas Quistad,
1100 North Point St.

Plans by Lawrence Ebbehts, 320 Fulton
Street.

Modernistic style, interior and ex-
terior.

Planned.
APARTMENTS Cost, \$130,000
LOS ANGELES, Cal. No. 321 N.
Larchmont Blvd.

Seven-story and basement reinforced
concrete Class A apartments (48
apts.)

Owner—The Federal Corp., 340 Roose-
velt Bldg., Los Angeles.

Architect—Fred Sward, Delta Bldg.,
Los Angeles.

Contract Awarded.
APARTMENTS Cost, \$60,000
SAN FRANCISCO. Haight & Steiner
Streets.

Five-story steel frame and concrete
apartments (22 apts.)

Owner—Mrs. L. Hagmaier, 222 Fill-
more St., San Francisco.

Architect—Bliss & Fairweather, Bal-
boa Bldg., San Francisco.

Contractor—H. S. Meinberger, 343 4th
St., San Francisco.

FALLON, Nevada—See "Hotels,"
this issue.

Structural and Reinforcing Steel Con-
tracts Awarded.

APARTMENTS Cost, \$150,000
SAN FRANCISCO. Pacific Ave. and
Baker Street.

Three-story steel frame and concrete
semi-fireproof apartments (six 6-
room apts.)

Owner and Builder—W. R. Voorhies,
Inc., 369 Pine St., San Francisco.

Plans by A. D. Janssen, 369 Pine St.,
San Francisco.

Structural Steel—McClintic-Marshall
Co., 2050 Bryant St.

Reinforcing Steel—Concrete Engineer-
ing Co., 1280 Indiana St., S. F.

Sub-bids on other portions of the
work will be taken shortly.

Contracts Awarded.
REMODELING Cost, \$40,000
SAN FRANCISCO. Stockton St. and
Maiden Lane.

Remodel present 3-story building for
confectuary.

Owner—D. Felix Lengfeld.

Plans by L. and E. Emanuel, 266 Jones
Street.

Lessee—Foster & Orear.

Excavating, Concrete, Steel and Plas-
tering—Ira Coburn, Hearst Bldg.

Electric Work—W. H. Morgan, 2241
15th Street.

Elevators and Dumb Waiters—Otis
Elevator Co., 1 Beach St.

Granite—McGillivray-Raymond Granite
Co., 3 Potrero Ave.

Glass—W. P. Fuller Co., 301 Mission
Street.

Plans Complete.
APARTMENTS Cost, \$15,000
BURLINGAME, San Mateo Co., Cal.

Two-story frame and stucco apart-
ments (two 4-room apts.)

Owner—Edward Stack.

Architect—Edwards and Schary, 605
Market St., San Francisco.

Upon approval of plans by owner
bids will be called for.

BONDS

CALISTOGA, Napa Co., Cal.—
County supervisors sell \$70,000 bond
issue of the Calistoga School District
for premium at \$3425, proceeds of sale
to finance erection of a new school
building, plans for which are being
completed by Architects Davis-Pearce
Co., Grant and Weber Sts., Stockton.

BERKELEY, Alameda Co., Cal.—
Board of Education proposes to place
on the November ballot a proposal to
raise \$250,000 each year for school
construction. The money would be-
come available by direct taxation. In
four years the plan would raise suf-
ficient funds for 12 elementary units
and for the completion of the Berke-

A Demonstration of the

**SKILSAW PORTABLE ELEC-
TRIC HAND SAW**

Will solve your cutting problems.
(Four Models, 1/2 to 1 h. p.)

**ELECTRIC HAMMERS
ELECTRIC DRILLS
GRINDERS, BUFFERS**

PETER H. NELSON

Labor Saving Portable Electric
Tools.

1248 Mission St. Underhill
San Francisco 7662

of \$100,000 to \$150,000, tentative estimates.

ALBANY, Alameda Co., Cal.—Election will be held in November in the Albany School District to vote bonds of \$130,000 to finance erection of new schools and additions to standing structures.

CHURCHES

Contract Awarded.
CHURCH Cost, \$—
 STOCKTON, San Joaquin Co., Calif.
 Stanislaus and Lafayette Sts.
 Two-story class C brick church with tile roof (stage, social hall, and auditorium to seat 400).
 Owner—Greek Orthodox Church.
 Architect—Joseph Losekann, 1213 W. Harding St., Stockton.
 Contractor—T. E. Williamson, 1859 W. Park St., Stockton.

Plans Being Completed.
CHURCH Cost, \$65,000
 PITTSBURG, Contra Costa Co., Cal.
 NW Black Diamond and W 8th St.
 Two-story reinforced concrete church with steel roof trusses (120x42-ft.).
 Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco; a Corp. Sole, St. Peter Martyr Parish, Rev. Louis A. Nasselli, rector).
 Architect—Arnold Constable, 580 Market St., San Francisco.

Eids will be taken about Oct. 20th. Will have full basement for Parish Hall and auditorium will seat 700. Will have stucco finish, tile roof and be of the Italian Romanesque style of architecture.

FACTORIES AND WAREHOUSES

Contract Awarded.
PRINTING SHOP Cost, \$5000
 NEWMAN, Stanislaus Co., Cal.
 One-story brick printing shop.
 Owner—Newman Printing Company.
 Architect—Hardman and Russ, Berkeley Bank Bldg., Berkeley.
 Contractor—Roy Kruger, Gustine.

Plans Being Figured.
WAREHOUSE Cost, \$65,000
 FRESNO, Fresno Co., Calif. R and Inyo Streets.
 Two-story and basement brick or concrete distributing plant and warehouse (100x150-ft.).
 Owner—United Grocers, Inc. (J. B. Rhodes, Mgr.) Fresno.
 Architect—Swartz and Ryland, Brix Bldg., Fresno.
 Bids are being received in the San Francisco office by Mr. Sorensen.

Additional Sub-Contracts Awarded.
SERVICE BLDG. Cost, \$50,000
 SAN FRANCISCO, SW Eleventh and Howard Streets.
 One-story class C tire service building.
 Owner—Goodrich Silvertown Inc., 1660 Pine Street.
 Plans by Eng. Dept. of Owner.
 Contractor—Lindgren and Swinerton, Inc., 225 Eust St.
Sheet Metal—Morrison & Co., 74 DuBois Ave.
Painting—Raphael Co., 270 Tehama St.

KERN COUNTY, Cal.—Until Oct. 14 2 P. M., bids will be received by E. E. Wallace, district engineer, State Highway Commission, P. O. Box 1352, Fresno, to erect maintenance station at Maricopa, to consist of a truck shed combination woodshed and garage, gasoline and oil house, septic tank and station sign. The present superintendent's cottage is to be moved to a new location and a sewer line is to be laid. The work of this contract comprises excavation, concrete and masonry work, carpentry and mill

work, sheet metal work, painting, plumbing and electrical installations. Plans obtainable from engineer on deposit of \$25, returnable. Certified check 10% required with bid.

Contract Awarded.
WAREHOUSE Cost approx, \$10,000
 REDWOOD CITY, San Mateo Co., Cal. No. 1601 El Camino Real.
 One-story hollow tile offices and warehouse.
 Owner—Sudden Lumber Company.
 Architect—Eng. Dept. of Owner, Quint and Evans Sts., San Francisco.
 Contractor—R. Elair Jr., Randall St., Atherton.

Plans Being Completed.
WAREHOUSE cost approx. \$150,000
 SAN FRANCISCO. Sansome and Vallejo Streets.
 Three-story reinforced concrete warehouse.
 Owner—Poultry Producers of Central Calif., 700 Front St.
 Architect—H. C. Baumann, 251 Kearny Street.
 Bids will be taken for a general contract about Oct. 10.

Sub-Contracts Awarded.
BUILDING Cost, \$15,000
 SAN FRANCISCO, SE Fifth and Folsom Streets.
 One-story and mezzanine floor reinforced concrete industrial bldg.
 Owner—Louis Lurie, 315 Montgomery Street.
 Architect—S. Heiman, 57 Post Street, and O'Brien Bros. & W. D. Peugh, 315 Montgomery St.
 Contractor—Louis J. Cohn, 1 De Haro Street.
Electrical Work—W. H. Morgan, 2241 15th Street.
Plumbing—Thomas Skelly, 1344 Ninth Avenue.
Reinforcing Steel and Steel Sash—Truscon Steel Co. Call Bldg.
 Other awards will be made shortly.

Sub-Contracts Awarded.
FLATS Cost, \$12,500
 SAN FRANCISCO, Marina Blvd. and Pierce Street.
 Three-story frame and stucco flats (two 6-room flats).
 Owner—Edward Baron.
 Architect—Wm. I. Garren, deYoung Building.
 Contractor—C. Dudley DeVelbiss, 369 Pine Street.
Roofing—J. W. Bender Roofing Co., 18th and Bryant Sts.
Sheet Metal—Atlas Heating Co., 557 Fourth Street.
Electric Work—Dowd-Seid Co., 2113 Mission Street.
Brick Work—Wm. Heindenreich, 129 Shotwell Street.
Plumbing—K. P. Shadburne, 1925 Chestnut Street.

Plans Being Prepared.
MILL Cost, \$100,000
 FRESNO, Fresno Co., Cal. Industrial section between Fresno & Calwa. Sulphur mill.
 Owner—Sunland Sulphur Co., 2143 Inyo St., Fresno.
 Plans by J. H. Wright, plant superintendent, 2143 Inyo St., Fresno.
 Grading of the site, comprising 7 acres has been started and construction will be started at once on a spur track to connect up with the Santa Fe Railroad. Officers of the company are: T. L. Harper, president and principal owner; E. D. Brink, vice-president; B. H. Jones, secretary-treasurer and J. H. Wright, superintendent and mill manager.

NEAR AZUSA, Los Angeles Co., Cal.—International Bond & Mortgage Co., St. Louis, has purchased 1130 acres of land along Bonita Ave., between Irwindale and Maine Aves., southwest of Azusa, where it pro-

poses establishing an industrial center. Several Eastern manufacturing concerns will occupy branch factories to be erected on site by the purchaser.

Plans Being Prepared—Close October 10, 4 P. M.
FACTORY Cost Approx. \$50,000
 SAN FRANCISCO. Eleventh and Howard Sts.
 Three-story and basement reinforced concrete factory.
 Owner—Stella Bros., 1470 Howard St., San Francisco.
 Architect—Louis Mastropasqua, 580 Washington St., San Francisco.
 Bids are being received by the owner

Preparing Working Drawings.
SERVICE BLDGS. Cost, \$45,000
 REDWOOD CITY, San Mateo Co., Cal.
 Group of service bldgs. (wood frame and file walls).
 Owner—Pacific Gas & Electric Co., 245 Market St., San Francisco.
 Plans by Eng. Dept. of Owner.
 Group includes warehouse, garage, service departments, superintendent's offices, etc. Eids will be taken in three or four weeks.

Contract Awarded.
HEADQUARTERS BLDG. \$4574
 BAKERSFIELD, Kern Co.
 Owner—County of Kern.
 Architect—Chas. H. Bieggar, Habersfelde Bldg., Bakersfield.
 Contractor—F. A. Greenough, 130 Lincoln St., Bakersfield.
 Complete list of bids follows:
 F. A. Greenough.....\$4574
 J. N. Harvey.....4590
 Currie & Duglar.....4745
 Peterson & Isler.....4748
 Preston Paynter.....4892
 Willard Michael.....4894
 Arthur Hurllett.....4900
 M. M. Garber.....5118
 Clark Gramling.....5428

Site Purchased—Plans To Be Prepared
OFFICES Cost, \$—
 FRESNO, Fresno Co., Cal. Divisadero and H Sts.
 Offices and shop (site 20x130 ft.).
 Owner—Commercial Iron Works, 2005 Broadway, Fresno.
 Architect—To be selected.

Plans Completed—Bids To Be Asked
 In Three Weeks.
ASSEMBLY PLANT Cost \$3,000,000
 SEATTLE, Wash. Duwamish Waterway.
 Class A assembly plant comprising main plant structure, 750x320 ft., and warehouse, 500x100 ft.
 Owner—Ford Motor Car Co., Detroit, Mich. (R. W. Hinea, Seattle branch manager).
 Architect—Albert Kahn, Inc., Detroit, Michigan.

GARAGES AND SERVICE STATIONS

Plans Being Figured—Bids Close Oct. 16th.
GARAGE Cost, \$60,000
 STOCKTON, San Joaquin Co., Calif.
 Center and Hazelton Sts.
 Fireproof garage, 100x175-ft.
 Owner—Pacific Gas and Electric Co., 245 Market St., San Francisco.
 Plans by Eng. Dept. of Owners.

Contract Awarded.
GARAGE Cost, \$53,500
 FRESNO, Fresno Co., Cal. Lots 29, 32 Block 86.
 Garage and service building.
 Owner—Richfield Oil Company.
 Architect—Rafael Lake, Pacific Southwest Bldg., Fresno.
 Contractor—Shields, Fisher and Lake, Pacific Southwest Bldg., Fresno.

Contract Awarded.
ALTERATIONS Cost, \$12,000
SAN FRANCISCO. SE Polk and Pacific Streets.
 Alterations to garage (new walls, partitions, etc.)
 Owner—Bothin Real Estate Co., 604 Mission St.
 Engineer—N. B. Green, Sharon Bldg.
 Contractor—F. R. Siegrist, 604 Mission St.

Contract Awarded.
OIL STATION Cost, \$5000
OAKLAND. Alameda Co., Calif. Golf Links Ave. and Jones St. (Oak Knoll District).
 Class C brick oil station.
 Owner—Geo. Frederick, 5400 Princeton, Oakland.
 Architect—A. L. Herberger, Tribune Tower Bldg., Oakland.
 Contractor—Dyer Construction Co., Ray Bldg., Oakland.

OAKLAND, Cal.—Until Oct. 16, 12 noon, bids will be received by Frank C. Merritt, city clerk, to furnish and install steel shelves, counters and cabinets in the Municipal Garage at the foot of Fifth Ave. Contract previously awarded for this work to C. J. Hillard Co., Inc., 19th and Minnesota Sts., San Francisco, has been rescinded. Specifications on file in office of city clerk.

Sub-Bids Being Taken.
ALTERATIONS Cost, \$12,000
SAN FRANCISCO. SE Polk St. and Pacific Avenue.

Alterations to garage (new walls, partitions, etc.)
 Owner—Bothin Real Estate Co., 604 Mission St., San Francisco.
 Engineer—N. B. Green, Sharon Bldg., San Francisco.
 Contractor—F. R. Siegrist, 604 Mission St., San Francisco.

Sub-bids are wanted on all portions of the work.

REDWOOD CITY, San Mateo Co., Cal.—Associated Oil Co. seeks permit from city council to erect and maintain an auto service station on proposed Bay Shore highway at intersection of Webster St. and Brewster Ave.

REDWOOD CITY, San Mateo Co., Cal.—Dave L. Walter, 2198 Broadway, granted permit by city council to erect and maintain auto service station at northwest corner of El Camino Real and Wesley Ave. for the Standard Oil Co.

Contract Awarded.
GARAGE Cost, \$13,000
OAKLAND. Alameda Co., Cal. 1723 Fruitvale Ave.
 One-story brick garage.
 Owner—G. B. Massone, 1723 Fruitvale Ave., Oakland.
 Architect—None.
 Contractor—F. W. Peters, 30 Grand Ave., Oakland.

GOVERNMENT WORK AND SUPPLIES

Bids To Be Asked Shortly.
WATER SOFTENER Cost, \$—
SAN FRANCISCO. Letterman General Hospital.
 Furnish and install water softener at power plant.
 Owner—U. S. Government.
 Architect—Constructing Quartermaster, Fort Mason.

Plans Being Figured—Bids Close Oct. 14, 11 A. M.
REPAIRS Cost, \$—
SAN FRANCISCO. Ft. Winfield Scott Repairs to Torpedo Wharf.
 Owner—U. S. Government.

Plans by Constructing Quartermaster, Fort Mason.
 Plans obtainable from Constructing Quartermaster, Fort Mason.

Contracts Awarded.
ADDITION Cost, \$15,000
SAN FRANCISCO. Letterman General Hospital.
 One-story and basement reinforced concrete addition to nurses' dormitory.
 Owner—United States Government.
 Architect—Constructing Quartermaster, Fort Mason.

General Work
Western Hardwood Floor Co., 21
Capistrano St., S. F., at \$12,217.
Plumbing, Heating and Ventilating
McCarthy — Johanns, 1363 14th.
 Ave. (plumbing), \$500; (heating) \$748; (electric), \$605.

October 4, 1930

Completing Plans.
FEDERAL BLDG. Cost, \$160,000
POMONA. Los Angeles Co., Cal.
 Thomas St., between 4th and 5th Streets.

Two-story fireproof Federal Building.
 Owner—United States Government.
 Architect—Supervising Architect, Treasury Dept., Washington, D. C.
 Terra cotta facing, clay tile roof, steel frame, marble, tile and terrazzo work, steel sash, steam heat.

SAN DIEGO, Calif.—R. E. Hazard Contracting Co., 2528 Kettner Blvd., San Diego, awarded contract by Bureau of Yards and Docks, Washington, D. C., at \$33,731 to furnish and install a 55,000-lb. steel tank and piping at the Naval Operating Base (Fuel Depot), San Diego. The work also involves earth and concrete work, steel and iron and electrical work.

HAWTHORNE, Nevada.—Until Oct. 29, 11 A. M., under Specification No. 6319, bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., to erect greenhouse at Naval Ammunition Depot at Hawthorne. The project will involve furnishing and erecting a structure, 18 by 75 ft. and includes concrete foundations, plant and work benches, plumbing, heating and lighting. Plans obtainable from Bureau at Washington or from Public Works Officer, 12th Naval District, 100 Harrison St., San Francisco, or on deposit of \$10. Returnable checks for same to be made payable to Chief of the Bureau of Yards and Docks.

SAN FRANCISCO.—Until October 20 1 P. M., bids will be received by Superintendent of Lighthouses, Customhouse, for grading, rock excavation, construction of concrete landings, concrete stairways, reinforced concrete retaining walls, roadways, concrete rainsheds and installation of pipe lines water tanks, hoisting derricks, etc., in accordance with specifications and drawings. Information upon application.

PHOENIX, Ariz.—Until Oct. 22, 2 P. M., bids will be received by John B. Brown, superintendent, U. S. Indian School, Phoenix, to furnish and deliver:

(a) 15,000 ft. plain white oak flooring, second grade, 13/16-in. by 2 1/4-in.
 (b) 15,000 ft. maple flooring, second grade, 13/16-in. by 2 1/4-in.
 Bidder to specify delivery f.o.b. shipping point and f.o.b. Phoenix.

MARE ISLAND, Calif.—Bureau of Yards and Docks, Navy Department, has appropriated \$45,050 for improvements at the Mare Island Navy Yard. The work to be completed by Government forces: \$2500 repairs to pavement; \$3000 repair railroad tracks; \$4,500 dock and repair floating equip-

ment of yard department; \$10,000 repairs to engines and cranes, \$3500 replace old motor trucks; \$3200 install direct current to Berth B near Independence dock and \$7500 for electric installation at Berth C.

NEVADA—Inland Utility Co., South Nevada Power Co., and the Sierra Power Co. submitted bids to the U. S. Reclamation Service at Denver, Colo., for the construction of an electric power plant at Boulder Dam site. Bids will be announced after tabulation.

PHOENIX, Ariz.—Until October 20, 2 P. M., bids will be received by Jno. B. Brown, superintendent, U. S. Indian School, to furnish and deliver school bus, seating capacity from 45 to 50 pupils; 1 1/2-ton chassis with dual wheels; wheel base about 157 inches. Body dimensions 14 ft. 6 inches long, 7 ft. 6 inches wide, inside height at edge 54 inches. Further information obtainable from above.

DENVER, Colo.—Until 3 P. M., Oct. 31, bids will be received by the Bureau of Reclamation, Denver, Colo., for furnishing the following for Pumping Station No. 1, Minidoka Project, Idaho:

One pump with a capacity of 180 second-feet when operating under a total effective head of 31 ft.

One 800-hp. 2200-volt, 3-phase, 60-cycle, synchronous motor, and auxiliary and control apparatus. Specifications No. 514 may be obtained from above.

WASHINGTON, D. C.—Bids are being received by Bureau of Supplies & Accounts, Navy Department, Washington, D. C., to furnish and deliver miscellaneous supplies and equipment as noted in the following schedules, further information being available from the Navy Department Officer, 100 Harrison St., San Francisco.

Bids Open Oct. 21

Puget Sound, acetylene regulators, hydrogen and oxygen regulators, valves, gauges, oil, steam and vacuum; sch. 4207.

San Diego, streamline tie rods; sch. 4205.

Puget Sound, 2 laundry washing machines; Brooklyn, 1 laundry press; sch. 4219.

San Francisco, one 75-hp. oil engine and 1 switchboard panel; sch. 4157.

San Francisco, one electric portable saw; sch. 4225.

Western yards, contact makers; sch. 4222.

San Francisco, or f.o.b. works, approx. 600,000 lbs. foundry pig iron; sch. 4204.

Western yards, quantity of surgical and hospital beds; sch. 4210.

Puget Sound, 1 electrically operated dish-sterilizing machine; sch. 4214.

Bids Open Oct. 28

Western yards, turbine-driven air compressors and spare parts; sch. 4161.

Western yards, pumps and spare parts; sch. 4163.

Western yards, pumps and spare parts; sch. 4160.

SAN FRANCISCO, Calif.—R. T. Dawson, 4333 Maryland Ave., San Diego, submitted low bid to the Public Works Officer, San Diego, at prices shown below, for constructing a quay wall for Marine Railway, Naval Operating Base (Destroyer Base), San Diego. The work includes reinforced concrete precast sheet pile and reinforced concrete can, untreated timber bearing piles, timber platform and deadmen, and miscellaneous steel and iron work. Spec. 6141. The bid was item (1) \$19,469; (2) \$1042; (3) \$4553; (4) \$4518. Bids were referred to Washington, D. C. for award.

LIVERMORE, Alameda Co., Cal.—Following bids received by Supervising Superintendent of Construction, U. S. Veterans' Hospital, Palo Alto, for additions and revisions to underground heating system at the Veterans' Hospital at Livermore. This work will consist of uncovering existing steam and hot water pipes, etc., constructing new concrete and vitrified clay pipe tunnels, as required, installing new steam supply and return pipes, including traps, valves, fittings, etc., constructing drains, removing old covering now in place, applying new non-conducting covering, cleaning, cutting, patching, painting and back-filling:

C. Dudley De Velbiss, 369 Pine St., San Francisco.....	\$ 9,965
Carl T. Doell, Oakland.....	14,480
Schreiber Bros., Oakland.....	14,892
Herman Lawson, S. F.....	15,700
Turner Co., S. F.....	19,820
Latorrette-Fical Co., Sacto.....	20,490
Walter Stubbs, S. F.....	21,280

Bids held under advisement.

BENICIA, Solano Co., Calif.—Until October 22, under Circular No. 41, bids will be received by Commanding Officer, Benicia Arsenal, to furnish and deliver 4,800 lbs. lubricating grease, 2,100 lbs. oil, 7,500 lbs. white lead, 600 qts. raw linseed oil, 600 gals. lubricating oil, 1,500 gals. o.d. paint, 200 gals. yellow paint, 300 qrs. emery cloth, 12,000 yds. burlap, 850 qrs. emery cloth, 600 qts. paint drier, 300 qts. red paint, 2,000 lbs. naphthalene, 150 qrs. flint paper, 250 lbs. metal polish, 3,000 lbs. leather equipment soap, 1,800 lbs. caustic soda, 7,500 lbs. soda ash, 800 sponges, 2,700 qts. turpentine, 1,400 pts. spar varnish, 10,000 lbs. cotton waste, 100,000 cotton flannel cut patches, 18,000 gals. gasoline and 20,000 gals. fuel oil. Further information obtainable from above.

NEVADA—Bids will be asked shortly by the U. S. Bureau of Reclamation, Denver, Colo., to construct seven miles of railroad from Boulder City to the site of the Hoover (Boulder) Dam. It is proposed to start construction on November 1.

SAN LUIS, Ariz.—Anderson Bros. Constr. Co., El Paso, Texas, submitted low bid at \$59,500 to the Treasury Department, office of the Supervising Architect, Washington, D. C., for the construction of the United States inspection station at San Luis, Ariz. It will be a two-story, masonry structure. Other bids were: McGinty Constr. Co., Phoenix, \$61,472; Phelps-Drake Co., Minneapolis, \$61,500; Robt. E. McKee, \$63,000; Modern Constr. Co., San Diego, \$66,750; W. D. Lovell, Minneapolis, \$69,400; Charles Weitz Sons, Des Moines, \$69,500; Pozzo Construction Co., \$79,500; English Construction Co., Washington, D. C., \$99,000.

SAN FRANCISCO—Chicago Bridge & Iron Works, Rialto Bldg., at \$410 submitted lowest bid to Constructing Quartermaster, Fort Mason, to construct a 50,000-gallon steel water tank on a 55 ft. trestle at Port Miley. Present steel water tank and trestle to be taken down by contractor for the new work.

The only other bid was submitted by Pittsburgh De Moines Steel Co. at \$6880.

PHOENIX, Ariz.—Until October 21, 2 P. M., bids will be received by John B. Brown, superintendent, U. S. Indian School, Phoenix, to furnish one hollow arm post sander, arms to be approximately 4 ft. 8 in. long, sand disc about 8 inches; equipped with special exhaust fan, vertical motor coupled to counter shaft and stand-

ard motor base and pulley for belt drive. Electric power, 220V., 3-phase, A. C., 60-cycle. To be used for surfaces such as doors, sash and table tops. Sander and extra equipment to be equal to Yates-American No. 12. Delivered f. o. b. shipping point designated by bidder or f. o. b. Phoenix, Ariz.

HALLS AND SOCIETY BUILDINGS

Plans Being Completed.

RECREATION BLDG.

Cost Approx., \$50,000

SAN JOSE, Santa Clara Co., Cal. W. Santa Clara St.

One and one-half-story steel frame and brick recreation building.

Owner—C. H. Kamm.

Architect—W. H. Weekst, 111 Sutter St., San Francisco; 1736 Franklin St., Oakland, and Bank of Italy Bldg., San Jose.

Lessee—O. J. Forman, San Jose.

Bids will be taken in ten days.

Preliminary Plans Being Prepared.

ALTERATIONS Cost, Approx. \$10,000

BERKELEY, Alameda Co., Cal. No.

2001 Allston Way.

Alterations and additions to present club.

Owner—Y. M. C. A., Premises.

Architect—W. H. Ratcliff Jr., Chamber of Commerce Bldg., Berkeley.

Low Bidder.

LODGE BLDG. Cost approx. \$20,000

WILLIAMS, Colusa Co., Cal.

Lodge building (height and type of structure not determined).

Owner—Tuscan Lodge of Williams.

Architect—Starks & Flanders, Forum Bldg., Sacramento.

Low Bidder—J. P. Brennan, Redding.

Contract Awarded.

ALTERATIONS Cost, \$12,000

SANTA MARIA, Santa Barbara Co.,

Cal. Main Street.

Alterations and additions to lodge building.

Owner—T. O. O. F., Santa Maria.

Architect—None.

Contractor—C. D. Rehner & Son, Santa Maria.

Plans Being Completed.

CLUB HOUSE Cost, Approx. \$25,000

SAN FRANCISCO. Thirty-second

Ave. and California St.

One-story and basement frame and stucco club house.

Owner—Miss Burke's School.

Architect—Miss Julia Morgan, Merchants' Exchange Bldg., S. F.

Contracts Awarded.

SOCIAL HALL Cost, \$20,000

PETALUMA, Sonoma Co., Cal. North

Webster St. and Western Ave.

One-story frame social hall (87x150-feet).

Owner—Hermann Sons Lodge, (A. Rothaus, Rt. 2, Box 156, Petaluma, in charge).

Architect—Not Given.

Carpentry—Petaluma Bldg. & Const. Co., Petaluma.

Lumber—Cavanagh Lbr. Co., Petaluma.

Mill Work and Glass—Camm & Hedg-

est, Petaluma.

Roofing—Cochrane Lbr. Co., Petaluma.

Heating and Electric Wiring—Pacific

Gas & Electric Co., Petaluma.

Truss Work—Van Bebbler Bros., Petaluma.

Plastering—John Steimer, Petaluma.

HOSPITALS

Contract Awarded.

HOSPITAL Cost, \$300,000

STOCKTON, San Joaquin Co., Cal

Class A brick or concrete county general hospital.

Owner—County of San Joaquin.

Architect—Fred H. Meyer, 74 Market St., San Francisco.

Consulting Architect—Davis & Pearce Co., Grant and Weber Sts., Stockton.

General Work

E. H. Riley, Wolf Hotel Bldg.,

Stockton\$196,426

Electrical Work

Hild Electric Co., 125 W. Main

St., Stockton\$5544

Mechanical Work

Miller Hays Co., Grant & Weber

Sts., Stockton\$20,174

Plumbing

Miller Hays Co., Grant & Weber

Sts., Stockton\$21,259

SAN FRANCISCO.—Until Oct. 20, 3 P. M., under Proposal No. 643, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish and deliver hospital supplies, roller bandages, absorbent cotton, gauze, lint, oiled muslin and adhesive plaster for Department of Public Health. Specifications obtainable from above.

SAN FRANCISCO.—H. M. Schnick Products Co., 135 Tehama St., at \$435 each, awarded contract by City Purchasing Agent, under Proposal No. 621, Item No. J, for 450 bedside tables for Laguna Honda Home.

SAN FRANCISCO — Until October 14, 3 P. M., bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish and deliver 200 mattresses for Laguna Honda Home. Specifications and further information obtainable from above.

SAN FRANCISCO—Henry R. Clark (Lyon Metal Products Co.), Hunter-Dulin Bldg., at \$1351.20 awarded contract by Leonard S. Leavy, city purchasing agent, to furnish and install 228 steel lockers (no padlocks included) in Laguna Honda Home, under Proposal No. 623, Item No. 2.

Plans Being Completed.

SERVICE BLDG. Cost, \$100,000

SAN JOSE, Santa Clara Co., Cal.

Two-story reinforced concrete service building.

Owner—County of Santa Clara.

Architect — Binder & Curtis, 35 W.

San Carlos St., San Jose.

Bids will be taken in two or three weeks.

SACRAMENTO, Cal.—Until October 14, 3 P. M., under Circular Proposal No. 31-92, Specifications 2481-1704, bids will be received by U. S. Engineering Office, California Fruit Bldg., to furnish and deliver miscellaneous castings. Specifications obtainable from above office.

Plans Being Figured—Bids Close Oct. 24, 11 A. M.

GARAGE Cost, \$—

LIVERMORE, Alameda Co., Cal. U.

S. Veterans' Hospital Grounds.

Construct six 2-car garages and one

1-car garage.

Owner—U. S. Government.

Architect—Supervising Superintendent

of Construction, U. S. Veterans'

Hospital, Palo Alto.

Plans obtainable from the superintendent at Palo Alto. This work consists of excavating, concrete floor, wall construction consisting of either 6-in. reinforced concrete; 8-in. concrete blocks, or 6-in. hollow tile, carpentry, millwork, hardware, built-up roofing, flashing, painting, glazing, stuccoing and finished grading.

LOS ANGELES, Calif.—Western Lathing Co., 185 Stevenson St., San Francisco, was awarded contract by the county supervisors Oct. 6 at \$408,068 for lathing for units Nos. 2, 3, 4 and 5, Los Angeles General Hospital. Plans Being Figured—Bids Close November 5, 2 P. M.

WAIRD, ETC. \$352,000 Available AGNEWS, Santa Clara Clara Co., Cal. Two-story reinforced concrete Ward, Kitchen and Stair Plant Building (tile partitions, wood roof construction and tile roof; approx. 70,000 sq ft. floor area).

Owner—State of California. Architect—Division of Architecture, State Dept. of Public Works, Geo. B. McDougall, State Architect, Public Works Bldg., Sacramento. Alternate bids will be received on adding one typical two-story wing as shown on plans. Bids are wanted for a general contract with separate bids on mechanical work, comprising plumbing, heating, ventilating and electrical work. Bids will also be considered separately for plumbing, heating and ventilating together with alternate bids in connection with wing addition.

LOS ANGELES, Cal.—Contract for furnishing fixed equipment for the Acute Unit of the General Hospital previously awarded by county supervisors to the General Fireproofing Co. has been assigned by the latter with the board's approval to the Metal Door & Trim Co., 2033 Venice Blvd., Los Angeles. The contract price was \$321,762.72. This gives to Metal Door and Trim Co. all metal work embraced in five contracts, as previously noted.

Contract Awarded. LIGHT FIXTURES Cost, \$1393 OKLAND, Alameda Co., Cal. Fairmount Hospital light fixtures. Owner—County of Alameda. Architect—Henry H. Meyers, Kohl Bldg., Oakland.

Contractor—Roberts Mfg. Co., 2214 Broadway, Oakland. Complete list of bids follows: Roberts Mfg. Co. \$1393; alternate Roberts Mfg. Co., \$1393; alternate \$248.

Maxwell Hardware Co., \$1440; \$310. Phoenix-Day Co., \$1450; \$240. Spott Elec. Co., \$1492; \$368. T. L. Rosenberg, \$1550; \$265. Kenyon Electric Co., \$1600; \$60.

LOS ANGELES, Cal.—Following additional awards made by the county of Los Angeles for completion of the acute unit of the Los Angeles General Hospital:

Show Cases, Filing Cases, Hollow Metal, Time Card Racks and X-Ray Development Equipment—Metal Door & Trim Co., 2033 Venice Blvd., Los Angeles, at \$15,200; \$4349; \$658,231; \$795 and \$3422 respectively.

Fixed Equipment—General Fireproofing Co., 1733 South Los Angeles St., Los Angeles, at \$321,762.

HOTELS

Contract Awarded. ALTERATIONS Cost, \$11,000 SAN FRANCISCO. SW Haight and Clayton Sts. Alter flats for rooming house. Owner—Mrs. J. Donaldson, La Honda, San Mateo. Architect—J. J. Mitchell, 369 Pine St., San Francisco. Contractor—C. H. Bessett, 826 Walnut St., Burlingame.

Segregated Bids Being Taken. HOTEL Cost, \$250,000 SAN FRANCISCO. Pine St. between Powell and Stockton Sts.

Sixteen-story steel frame and concrete hotel. Owner—Shell Drake Hotel Co. Architect—H. C. Baumann, 251 Kearny Street.

Plans Being Prepared. HOTEL Cost, \$100,000 FALLON, Nevada. Three and one-half-story concrete Class C hotel (50 rooms and 6 apt.s).

Owner—J. A. Colliton. Plans by George Koster, 300 California St., Reno, Nevada.

Bids will be called for in about forty days.

Construction Indefinitely Postponed. HOTEL Cost, \$165,000 RENO, Nevada. 151 Sierra Street. Four-story fireproof hotel and stores (60 rooms with private baths).

Owner—Barengo Eros, Reno. Architect—F. J. DeLongchamps, Gazette Bldg., Reno.

Low Bidder—K. E. Parker Co., 135 South Park, San Francisco, \$165,000.

ICE AND COLD STORAGE PLANTS

Construction Under Way. PLANT Cost, \$90,000 LA VERNE, Los Angeles Co., Cal. Reinforced concrete pre-cooling plant (90x106 feet).

Owner—La Verne Co-Operative Citrus Association.

Architect—None.

Contractor—E. M. Mahl, La Verne. The pre-cooling house will have an 80-car capacity plant and the lemon house will accommodate 200 cars. Cost of the buildings will total about \$90,000.

POWER PLANTS

Construction Started By Day's Work. SUB-STATION Cost, \$20,000 MODESTO, Stanislaus Co., Cal. Callifornia and Stone Aves.

Sub-station. Owner—Modesto Irrigation District, Modesto.

Plans by R. V. Meikle, Chief Engineer for District.

Construction has been started by district forces under the supervision of B. W. Crelin, electrical engineer for the district.

NEVADA—Inland Utility Co., South Nevada Power Co., and the Sierra Power Co. submitted bids to the U. S. Reclamation Service at Denver, Colo., for the construction of an electric power plant at Boulder Dam site. Bids will be announced after tabulation.

STOCKTON, San Joaquin Co., Cal.—Pacific Gas & Electric Co., 245 Market St., San Francisco, will expend \$350,000 in the installation of high-voltage transmission equipment. A portion of the equipment is available and installation will be started within 30 days.

OKLAND, Cal.—City council rejects bids received September 25 to furnish and install combination automatic and manual telephone switchboard for Fire Alarm Center Station and new bids will be considered October 16, 12 noon. Previous bids did not conform to specifications, the Electrical Communication Co., San Francisco, bidding \$12,073 failed to enclose affidavit with bid; Sierra Equipment Corp., San Francisco, bidding \$12,279 failed to submit affidavit with bid and not meeting the specifications, and Telephone Equip-

ment & Repair Co., bidding \$12,896 failed to meet the city specifications. Certified check 10% payable to city required with bid. Specifications on file in office of clerk.

RIVERSIDE, Riverside Co., Calif.—Construction has been started by crews of the Southern Sierras Power Co. on an 88,000-volt steel-pole power line to connect the Palo Verde Valley with the main transmission system of the Southern Sierras Power Co. at Calipatria. The Calipatria-Blythe line is to be 70 miles in length, is of steel-pole construction throughout, with aluminum conductors suspended from the fifty-eight-foot poles by strings of the eleven-inch disc insulators, six to a string. More than 1,000,000 lbs. of steel will be required for its construction; 250,000 lbs. of aluminum conductor and 11,000 insulators will be used. The line will have a capacity of more than 40,000-hp., and will cost, together with the terminal substations, about \$330,000. A modern steel substation will be erected at Elythe, and an addition will be made to the existing station at Calipatria. The company's plans call for completion of the line by the first of January.

OKLAND, Cal.—Until October 23, 12 noon, bids will be received by Frank C. Merritt, city clerk, to furnish and deliver rubber insulated lead covered cable for the remainder of the current fiscal year. Specifications on file in office of city clerk. Walter N. Frickstad, city engineer.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

Bids Opened. EQUIPMENT Cost, \$— BERKELEY, Alameda Co., Cal. SW Kittredge St. and Shattuck Ave.

Furnish and install furnishings and technical equipment for main library. Owner—City of Berkeley, Florence E. Turner, city clerk.

Architect—Jas. W. Plachek, Mercantile Bank Bldg., Berkeley.

Following is a complete list of bids: R. Brande & Co., 2141 Bryant St., San Francisco, \$20,584 Lannom Bros. Mfg. Co., Oakland, 21,625 Brass & Kuhn, San Francisco, 24,433 Yawman & Erbe, San Francisco, 24,537 M. G. West Co., San Francisco, 24,800 Rucker Fuller Co., S. F., 24,937 Remington Rand Co., S. F., 27,205 Commercial Fixture Co., S. F., 27,728 Bids held under advisement.

Contract Awarded. CITY HALL Cost, \$55,393 FALLON, Nevada Carson Ave. and Williams Street. Two-story brick city hall. Owner—City of Fallon. Architect—Not Given. Contractor—Gebelhoff & Reese, Fallon.

SAN MATEO, San Mateo Co., Cal.—City council has abandoned proposal to purchase the Clark mansion and seven acres of the estate as a site for a civic center. It was proposed to move the present city hall to the new site and remodel the structure. Estimates presented by Architects Edwards and Schary, San Francisco, placed the cost of such improvements at \$37,500.

OKLAND, Cal.—Geo. S. McMullen, 747 Victoria Ave., Oakland, at \$1,568, awarded contract by city council to construct concrete steps at north entrance to Municipal Auditorium.

LOS ANGELES, Cal.—Until October 20, 2 P. M., bids will be received by county supervisors to furnish and install signal and prowler alarm system for new county jail in Hall of Justice. Estimated cost \$7500. Plans by Karl W. Muck, county architect, 10th Floor, Hall of Records, from whom plans are obtainable.

LAKEPORT, Lake Co., Cal.—Until October 22, 10 A. M., bids will be received by Fred H. Merritt, county clerk, to furnish and install steam heating system in old portion of Lake County Courthouse. Norman R. Coulter, 46 Kearny St., San Francisco, architect. Certified check or bidder's bond 10% payable to Chairman of the Board of Supervisors required with bid. Bond of 50% of contract price required of the successful bidder. Plans on file in office of clerk.

Bids Opened.
AUDITORIUM Cost, \$—
WATSONVILLE, Santa Cruz Co., Cal. Paint exterior walls of Municipal auditorium (two coats of paint; 1st coat to consist of pure white lead and boiled linseed oil with 25% of first binder. Second coat to be pure white lead and boiled linseed oil).

Owner—City of Watsonville, M. M. Swisher, city clerk.
Architect—Not Given.

Following is a complete list of bids:
(1) Brush, (2) Spray.
A. B. C. Painting & Spray Co., 212 Tara St., San Francisco, (1) \$487.
Reib Paint Store, (1) \$694; (2) \$525.
Frank Donnelly, Hollister, (1) \$848; (2) \$742.

M. J. Rahr, Watsonville (1) \$757.
D. E. Burgess, Stockton (2) \$778.
F. C. Willis, Watsonville (1) \$825.
D. A. McQueen, (1) \$954; (2) \$678.
Vail Paint Shop, Watsonville (1) \$980.
B. D. Tucker (1) \$1,100.
Roy Grantz (1) \$1,344.
C. J. Seekens, Watsonville (1) \$1,623.
Bids held under advisement until Oct. 21.

RESIDENCES

Contract Awarded.
RESIDENCE Cost, \$14,500
ARLINGTON ACRES, Contra Costa Co., Cal. Lot 25 Blk C.
One-story and basement frame and stucco residence.
Owner—Virginia E. Mahl.
Architect—Arthur L. Herberger, 3281 Lakeshore Blvd., Oakland.
Contractor—Irwin H. Reimers, 745 Walla Vista Ave., Oakland.

ATHERTON, San Mateo Co., Cal.—A. F. & C. W. Mattock, 212 Clara St., San Francisco, desires sub-bids in connection with the construction of a two-story brick veneer residence to be erected in Atherton for Clarence Walter, 562 Mission St., San Francisco. Plans prepared by Architect Henry H. Guttererson, 526 Powell St., San Francisco. Cost, \$60,000. Bids are to be opened October 8th, 12 noon. Sub-bids are wanted on all portions of the work.

Preliminary Plans Being Prepared.
RESIDENCE Cost, \$15,000
PIEDMONT, Alameda Co., Cal. Crocker Highlands.
Two-story and basement frame and stucco residence.
Owner—Dr. Hobart Rogers, 400 29th St., Oakland.
Architect—W. E. Schirmer, 700 21st St., Oakland.

Sub-Bids Wanted.
RESIDENCE Cost, \$10,000
REDWOOD CITY, San Mateo Co., Cal. Edgewood Road.
One-story and basement frame and stucco residence, (7 rooms and 2 baths).
Owner and Builder—E. Strandquist, 2710 Broadway, Redwood City.
Plans by E. Strandquist.
Full tile roof, tile baths and kitchen, gas heating system, all modern conveniences. Sub-bids are wanted on all portions of the work.

Sub-Bids Being Taken.
RESIDENCE Cost, \$5000
REDWOOD CITY, San Mateo Co., Cal. Jefferson Ave.
One-story and basement frame and stucco residence.
Owner and Builder—E. Strandquist, 2710 Broadway, Redwood City.
Plans by E. Strandquist.
Part tile roof, gas heating system. Sub-bids are being taken on all portions of the work.

Construction Postponed Indefinitely
RESIDENCE Cost, \$20,000
STOCKTON, San Joaquin Co., Cal. Oxford Manor.
Two-story and basement frame and stucco residence (10 rooms).
Owner—Arthur M. Noble, 945 N. El Dorado St., Stockton.
Architect—Ralph Morrell, Union Bldg., Stockton.
Construction is postponed until Spring.

Sub-Contracts Awarded.
RESIDENCE Cost, \$22,000
SAN FRANCISCO. Jackson St. near Steiner Street.
Two-story and basement frame and stucco residence.
Owner—F. D. Zellinsky, 165 Grove St.
Architect—Hyman & Appleton, 68 Post Street.
Contractor—Jacks and Irvine, 74 New Montgomery St.
Electrical Work—Commercial Electric Co., 1925 Howard St.
Sheet Metal and Patent Flues—Lowell Davison, 375 Montevary Blvd.

FRESNO, Fresno Co., Cal.—Taylor and Wheeler, Inc. Power Bldg., realtors and home builders, have purchased five acres in Terrace Avenue between Wilson and Palm Avenues and will subdivide the area for a restricted residential tract involving the erection of twenty modern Spanish type homes. Sewer and water services, curbs, walks, gutters and paving are already installed.

Contract Awarded
RESIDENCE Cost, \$60,000
LOS GATOS, Santa Clara Co., Cal. Bet. Los Gatos and Saratoga.
Two-story frame and stucco residence with tile roof (10 rooms).
Owner—W. E. Blauer, 1634 The Alameda, San Jose.
Architect—Clarence Tantau, Shreve Bldg., San Francisco.
Contractor—The Minton Co., Mt. View and Palo Alto.

Sub-Bids Wanted
RESIDENCES Cost, As noted
SAN FRANCISCO. Westwood Park District.
Four one-story frame and stucco residences approx. \$10,000 each and 3 two-story frame and stucco residences approx. \$10,000 each.
Owner—Castle Building Co., 330 Market St., San Francisco.
Plans by D. E. Jackle, Call Bldg., San Francisco.
Contractor—A. J. Herzig, 1945 Ocean Ave., San Francisco.
Sub-bids are desired on all portions of the work.

Low Bidders.
RESIDENCE Cost, \$60,000
ATHERTON, San Mateo Co., Cal. Two-story brick veneer residence.
Owner—Clarence Walter, 562 Mission St., San Francisco.
Architect—H. H. Guttererson, 526 Powell St., San Francisco.
Low Bidders—G. P. W. Jensen, 320 Market St., San Francisco; A. F. Mattock, 212 Clara St., San Francisco; D. B. Gladstone, 320 Market St., San Francisco.
Complete list of bids will be on file in this office today and will be published tomorrow.

Completing Plans.
RESIDENCE Cost, \$5000
OAKLAND, Alameda Co., Cal. 21st Street near 22nd Ave.
One and one-half-story frame and stucco residence.
Owner—Mrs. Margaret McNaughton.
Architect—Guy L. Brown, American Bank Bldg., Oakland.

Construction Indefinitely Postponed.
RESIDENCE Cost, \$—
HILLSBOROUGH, San Mateo Co., Cal. Two-story frame and stucco residence.
Owner—Major A. J. Watson, 165 Warren Road, San Mateo.
Architect—E. M. Sharpe, 525 Market St., San Francisco.

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Construction Indefinitely Postponed.
RESIDENCE Cost, \$25,000
ORINDA, Contra Costa Co., Cal. Or-
inda Country Club.
Two-story frame and stucco residence
with shingle tile roof (11 rooms
and 2-car garage).
Owner—Dr. Nutting.
Architect—William Rich, Orinda.
Work will probably go ahead next
spring.

Completing Plans.
RESIDENCE Cost, \$10,000
SAN LEANDRO, Alameda Co., Cal.
Oak Blvd.
Two-story and basement frame and
stucco residence (19 rooms, 3
baths).
Owner—Dr. A. W. Henry, 1326 E-14th
St., Oakland.
Plans by Irwin M. Johnson, 2215 7th
Ave., Oakland.
Bids will be taken within one week.
Will have terra cotta tile roof, oak
floors, electric refrigeration, etc.

Completing Plans.
RESIDENCE Cost, \$12,500
OAKLAND, Alameda Co., Cal. Lake-
shore Highlands.
Two-story and basement frame and
stucco residence (11 rooms, 3
baths).
Owner—A. R. Lapham, 947 Hillcroft
Circle, Oakland.
Plans by Irwin Johnson, 2215 Seventh
Ave., Oakland.
Bids will be taken in 10 days.

Plans Completed.
RESIDENCE Cost, \$6500
BERKELEY, Alameda Co., Cal. 6th
Euclid Ave.
One-story and basement frame and
stucco residence (5 rooms; Span-
ish type).
Owner and Builder—J. M. Walker, 1709
Grove St., Berkeley.
Plans by Owner.
Excavation bids wanted. Full tile
roof, colored tile bath and kitchen,
all modern conveniences.

Sub-Contracts Awarded.
RESIDENCE Cost, \$8000
BERKELEY, Alameda Co., Calif. 601
Euclid Avenue.
Two-story and basement frame and
stucco residence (ten rooms, two
baths).
Plans by J. M. Walker.
Contractor—J. M. Walker, 1709 Grove
St., Berkeley.
Plumbing—Golden Gate Plumbing Co.,
5904 San Pablo Ave., Piedmont.
Sheet Metal—M. C. Henry, 1183 53rd
St., Oakland.
Brick Work—G. E. Marshall, 1017 Fol-
ger, Oakland.

Completing Plans.
RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Cal. Mont-
rose Road.
Two-story and basement brick veneer,
frame and stucco residence (10
rooms, 3 baths.)
Owner—Withheld.
Architect—E. L. Snyder, 2101 Shat-
tuck Ave., Berkeley.
Bids will be taken in two weeks.

Sub-Contracts Awarded.
RESIDENCE Cost, \$15,000
BERKELEY, Alameda Co., Cal. Eu-
clid Avenue.
Two-story frame and stucco residence.
Owner—F. Foster.
Architect—E. L. Snyder, 2101 Shattuck
Ave., Berkeley.
Contractor—Beckett & Wight, 722
Scenic Ave., Berkeley.
Concrete—Nat Lena, 2307 Encinal Ave.
Alameda.
Mill Work—Oakland Planing Mill, Inc.
2nd and Washington Sts., Oak-
land.
Lumber—Tilden Lumber Co., 1291 Del-
aware St., Oakland.

Contract Awarded.
RESIDENCE Cost, \$10,000
STOCKTON, San Joaquin Co., Cal.
No. 3402 N. Pacific Avenue.
Two-story frame and stucco residence
Owner—J. Cataffo.
Architect—None.
Contractor—Randolph & West, 405 E-
Poplar St., Stockton.

To Be Done By Day's Work.
RESIDENCE Cost, \$11,000
PALO ALTO, Santa Clara Co., Cal.
No. 1801 Fulton Street.
Two-story frame and stucco residence
Owner and Builder—E. M. Buckley,
124 Dana St., Palo Alto.
Architect—None.

Contract Awarded.
RESIDENCE Cont. price, \$9120
ARLINGTON ACRES, Contra Costa
Co., Cal.
One and one-half-story frame and
stucco residence (7 rooms, 2 baths)
Owner—The Misses Stewart.
Architect—Hardman and Russ, Berke-
ley Bank Bldg., Berkeley.
Contractor—Conner and Conner, 1726
Grove St., Oakland.

Plans Being Prepared.
ALTERATIONS Cost, \$—
HILLSBOROUGH, San Mateo Co.,
Cal. 1005 Jackling Drive.
Alterations and additions to residence.
Owner—John E. Manders, premises.
Architect—Henry H. Gutterson, 526
Powell St., San Francisco.
Bids will be taken in two or three
weeks.

Construction Indefinitely Postponed.
RESIDENCE Cost, \$10,000
ORINDA, Contra Costa Co., Cal.
One-story frame and stucco residence
(8 rooms).
Owner—Prof. Hall, University of Cal-
ifornia, Berkeley.
Architect—William Rich, Orinda.
Work may go ahead next spring.

Construction Indefinitely Postponed.
RESIDENCE Cost, \$12,000
BERKELEY, Alameda County, Calif.
Thousand Oaks.
Two-story frame and stucco residence
(7 rooms, English type).
Owner—Rev. C. F. Acree, Thousand
Acres, Berkeley.
Architect—William Rich Orinda.
Work will probably go ahead next
spring.

Preliminary Plans Being Prepared.
RESIDENCE Cost, \$16,000
OAKLAND, Alameda Co., Cal. Lake-
shore Highlands.
Two-story frame and stucco residence
Owner—Withheld.
Plans by Irwin Johnson, 2215 Seventh
Ave., Oakland.
More definite information will be
given shortly.

To Be Done By Day's Work.
RESIDENCE Cost, \$11,000
BURLINGAME, San Mateo Co., Cal.
Lot 5 Block 71, Hillside.
Two-story frame and stucco residence
Owner and Builder—E. S. Shaver, 2649
Easton Drive, Burlingame.
Architect—None.

To Be Done By Day's Work By Owner
RESIDENCE Cost, \$16,000
BERKELEY, Alameda Co., Cal. Clare-
mont Pines.
Two-story frame and stucco residence
(9 rooms).
Owner and Builder—J. M. Olsen, %
Architect.
Architect—W. E. Schlirmer, 700 21st
St., Oakland.

Sub-Contracts Awarded.
RESIDENCE Cost, \$7500
BERKELEY, Alameda Co., Cal. 2390
Corona Court.
Two-story frame and stucco residence
(6 rooms).
Owner—T. B. Heller, 1617 Visalia Ave.,
Berkeley.
Plans by J. M. Walker.
Contractor—J. M. Walker, 1709 Grove
St., Berkeley.
Brick Work—A. B. McMurtry, 6326
Broadway Terrace, Oakland.
Sheet Metal—M. C. Henry, 1183 53rd
St., Oakland.
Plumbing—Golden Gate Plumbing Co.,
5904 San Pablo Ave., Piedmont.

Contract Awarded.
RESIDENCE Cost, \$10,000
OAKLAND, Alameda Co., Cal. West
Fairway Ave. N Twin Oaks Way.
Two-story and basement frame and
stucco residence (9 rooms and ga-
rage).
Owner—C. Ellis.
Architect—R. J. Keefer, 3281 Lake-
shore Blvd., Oakland.
Contractor—Ernest R. Jarvis, 1586
Vista St., Oakland.

Sub-Bids Being Taken.
RESIDENCE Cost, \$8000
REDWOOD CITY, San Mateo Co., Cal.
Arlington Road, Edgewood Park.
One-story and basement frame and
stucco residence (7 rooms).
Owner and Builder—E. Strandquist,
2710 Broadway, Redwood City.
Plans by Mr. Strandquist.
Full tile roof, gas heating system.
Sub-bids are wanted on all portions
of the work.

SCHOOLS

SAN FRANCISCO—Bids received
September 8, under Proposal No. 621,
by Leonard S. Leavy, city purchasing
agent, to furnish and install stage
fittings and draperies for the Presidio
Junior High School have been re-
jected.

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Contract Awarded.

ADDITION Cost, \$—
HAWTHORNE, Nevada.
 Reinforced concrete and steel truss addition to high school (50x140-ft.)
 Owner—Mineral County High School District.
 Architect—F. J. DeLongchamps, Gazette Bldg., Reno.
 Contractor—J. T. Reese, Fallon, Nevada, \$13,955.
 Joe Dillard, Reno, bid \$14,000.

Plans Being Figured—Bids Close Oct. 20, 8 P. M.
WALL Cost Approx. \$1800
COLMA, San Mateo Co., Cal. School Grounds.
 Retaining wall and fencing.
 Owner—Jefferson School District, Colma.
 Architect—N. R. Coulter, 46 Kearny St., San Francisco.
 Bids are being received by W. J. Sweeley, Clerk of the Board, at the Woodrow Wilson School, Daly City.

Plans Being Figured.
SCHOOL Cost approx. \$20,000
OAKLAND, Alameda Co., Cal. Tenth St. bet. Brush and West.
 Two-story class C brick school (auditorium).
 Owner—Oakland Japanese Methodist Church.
 Architect—Louis M. Upton, 110 Sutter St., San Francisco.
 About ten days will be allowed for figuring the plans.

Bids Opened.
WATER SYSTEM, ETC. Cost, \$—
HOPETON, Merced Co., Cal.
 Erect toilet building, construct septic tank, water system and miscellaneous minor improvements at school grounds.
 Owner—Hopeton School District.
 Engineer—W. E. Bedesen, Shaffer Bldg., Merced.
 Complete list of bids received, all taken under advisement, follows:
 C. C. Disney, Merced.....\$3,434
 T. A. Wayne, Atwater.....3,465
 M. Zoberbier, Merced.....3,675
 M. B. Folsom, Merced.....4,000

Plans Completed.
AUDITORIUM Cost, \$125,000
PASADENA, Los Angeles Co., Cal.
 John Muir Technical High School.
 Reinforced concrete high school auditorium (120x180 ft.) (to seat 1200)
 Owner—Pasadena Board of Education
 Architect—Bennett & Haskell, First Trust Bldg., Pasadena.
 Bids will be advertised for shortly.

Preparing Preliminary Plans.
PHYSICS BLDG. Cost, \$205,000
CLAREMONT, Los Angeles Co., Cal.
 Pomona College.
 Physics building (auditorium, lecture room, laboratories and workroom).
 Owner—Pomona College.
 Architect—Allison & Allison, California Reserve Bldg., Los Angeles.

MILBRAE, San Mateo Co., Cal.—
 Lomita Park School District will purchase 1½ acres adjoining the present Lomita School District and will improve the land for playground purposes.

Plans Being Completed.
SCHOOL Cost, \$70,000
CALISTOGA, Napa Co., Cal.
 One-story class C brick school (eight classrooms, assembly room, and shop).
 Owner—California Grammar School District.
 Architect—Davis-Pearce Company, Inc., Builders Bldg., Stockton.
 Bids will be taken in two weeks.
 Tile roof, oil burning system, etc.

SAN RAFAEL, Marin Co., Calif.—
 Until October 14, 8 P. M., bids will be received by Oliver R. Hartzell, Secretary, Board of Education, to furnish and install basketball goals in gymnasium and also furnish bleachers and other furniture and equipment, including musical instruments and instructional apparatus for high school. Specifications and further information obtainable from secretary.

Bids Opened.
BUILDINGS Cost, \$685,000
BERKELEY, Alameda Co., Cal. University of California Campus.
 Group of class B buildings (College of Engineering).
 Owner—University of California.
 Architect—G. W. Kelham, 315 Montgomery St., San Francisco.
 Engineer—H. J. Burnnier, Sharon Bldg., San Francisco.
 Following is a complete list of the bids received:

General Work
 Barrett & Hilt, 918 Harrison St., San Francisco.....\$499,275
 K. E. Parker, San Francisco.....507,300
 J. L. McLaughlin Co., S. F.....514,680
 Dinwiddie Const. Co., S. F.....519,300
 MacDonald & Kahn, S. F.....524,242
 Schuler & McDonald, Oakland.....529,000
 R. W. Littlefield, Oakland.....534,200
 Monson Bros., S. F.....541,860
 Leibert & Trobeck, S. F.....559,600

Mechanical Work
 Turner Co., 329 Tehama Street, San Francisco.....\$61,153
 Fred. Snook Co., S. F.....63,396
 James Nelson, S. F.....84,354

Electrical Equipment
 NePage-McKenny Co., 128 10th St., Oakland.....\$19,704
 H. S. Tittle, S. F.....20,000
 Superior Electric Co., S. F.....20,400
 Turner Co., S. F.....20,962
 Kenyon Electric Co., S. F.....21,469
 Langlais Electric Co., S. F.....21,961
 California Elec. Co., S. F.....22,445

Awards will be made Oct. 14th.

Opening of the refrigeration bids has been postponed until Oct. 27th.

Plans Being Figured—Bids Close October 27, 8 P. M.
SHOP Cost, \$—
CORNING, Tehama Co., Cal.
 One-story hollow tile and stucco school shop building (68x100 ft.)
 Owner—Corning Union High School District, L. Winkenhof, clerk.
 Architect—Starks & Flanders, 714 Forum Bldg., Sacramento.
 Certified check 10% payable to clerk of district required with bid. Plans obtainable from architects on deposit of \$15, returnable.

Bids To Be Taken About October 13.
ADDITION Cost, Approx. \$10,000
MOSS LANDING, Monterey Co., Cal.
 One-story frame addition to present school (2 classrooms).
 Owner—Moss Landing School District
 Architect—W. H. W. C. Hunter-Dulin Bldg., San Francisco, 1736 Franklin St., Oakland, and Bank of Italy Bldg., San Jose.

Preparing Preliminary Plans.
GYM, ETC. Cost, \$50,000
SAN RAFAEL, Marin Co., Cal.
 Gymnasium (wood frame, roof trusses over gymnasium proper carried on steel columns) planting and lawns and shrubbery, etc., at college grounds.
 Owner—Marin Junior College Dist.
 Architect—A. A. Cantin, 544 Market St., San Francisco.

MARTINEZ, Contra Costa Co., Cal.—
 Bids are being received by R. L. Boyer, clerk, Alhambra Union High School District, to furnish and install opera chairs, window shades, program clocks and intercommunicating telephone system in the new junior high

school gymnasium and shop. W. H. Weeks, 111 Sutter St., San Francisco, architect.

On previous call for bids, low bids were as follows:

Opera Chairs—F. E. Turner, Co., Stockton, \$3,015.

Window Shades—E. V. Uffelman, 520 Carolina St., Vallejo, \$758.

Program Clock—International Time Recording Co., 529 Market St., San Francisco, \$850.

Telephone System—Telephone Equipment Co., 515 Market St., San Francisco, \$1,088.

Date of opening bids has not as yet been set.

Rejection of Bids Recommended.
GYMNASIUM Cost, \$—

SAN JOSE, Santa Clara Co., Calif.
 State Teachers' College Grounds.
 Reinforced concrete men's gymnasium
 Owner—State of California.

Architect—State Department of Public Works, Division of Architecture, Public Works Bldg., Sacramento.

It is planned to call for new bids shortly. On the previous call, the following were low bidders:

General Work
 H. L. Petersen, 731 Treat Ave., San Francisco.....\$114,926

Plumbing, Heating and Ventilating
 Hatley & Hatley, 1719 10th St., Sacramento.....\$26,488

Electrical Work
 Gilbert Bros., 286 W. Santa Clara St., San Jose.....\$7,493

Mechanical Work, Complete
 Latourrette-Fical Co., 907 Front St., Sacramento.....\$35,772

Complete list of bids published Aug. 20th.

Bids Opened. Cost, \$—
SCHOOL
HAYWARD, Alameda Co., Cal.
 School building.
 Owner—Independent School Dist., B. H. Manter, clerk, Route 3, Box 290 Hayward.

Architect—Not Given.

Following is a complete list of bids: Alt. No. 1, rough plumbing; Alt. No. 2, add for finish plumbing.

A. Holyoake, East Ave., Hayward, \$7,900; (1) \$554; (2) \$422.

C. M. Russell, Hayward, \$8,110; (1) \$473; (2) \$418.

A. Nelson, Hayward, \$8,192; (1) \$480; (2) \$415.

J. J. Thorup, Hayward, \$8,307; (1) \$357; (2) \$410.

George Anson, \$8,500; (1) \$500; (2) \$430.

Fred J. Westlund, Oakland, \$8,890; (1) \$555; (2) \$465.

Walter Lund, Hayward, \$8,895; (1) \$465; (2) \$445.

G. A. Scott, Oakland, \$10,059; (1) \$452; (2) \$366.

Gaubert Bros., Oakland, \$10,435; (1) \$490; (2) \$260.

Contract recommended to be awarded to low bidders. Announcement will be made in one week.

MARTINEZ, Contra Costa Co., Cal.—
 Trustees of the Alhambra Union High School District are having plans prepared for the installation of a lighting system on the athletic grounds for night baseball and football games. Bids for the installation will be asked on completion of plans.

Plans To Be Prepared.
EDUCATIONAL UNIT Cost, \$—
PORTERVILLE, Tulare Co., Cal.

Brick or reinforced concrete educational unit.

Owner—Methodist Church, Rev. J. T. Miller, pastor, Porterville.

Architect—To Be Selected.

This unit will comprise an annex to the present church building and will contain 18 classrooms with kitchen and dining room in basement accommodating 350 persons.

Plans Being Completed.
SCHOOL. Cost, \$650,000
 SAN FRANCISCO. Noe and 25th Sts.
 Class A Junior High School building
 (three story and basement concrete and terra cotta, tar and gravel roof; to accommodate approx. 800 students).
 Owner—City and County of San Francisco.
 Architect—Crim, Resing & McGuinness, 483 Pine St.
 Plans will be complete in 1 week.

ADDITION \$75,000 available
MADERA, Madera Co., Cal.
 Additional unit at high school.
 Owner—Madera High School District.
 Architect—To Be Selected.

BANKS, STORES & OFFICES

Plans Being Completed.
STORE Cost, \$12,500
 SAN JOSE, Santa Clara Co., Cal.
 Two-story brick and concrete stores and offices.
 Owner—Wm. Goefrey, 296 S-Second St., San Jose.
 Architect—Herman Krause, P. O. Box 783, San Jose.
 Bids will be taken in 2 weeks.

Preparing Working Drawings.
BANK Cost, \$60,000
 LOS GATOS, Santa Clara Co., Cal.
 Main St. and Santa Cruz Ave. (52x100 feet).
 One-story reinforced concrete bank with tile roof (ornamental stone and acoustical plaster).
 Owner—Bank of Italy.
 Architect—H. A. Minton, Bank of Italy Bldg., San Francisco.
 Plans will be ready for bids in 6 weeks. There will be two stores, 20x72 feet in connection with building.

Preparing Preliminary Plans.
STORE Cost, \$100,000
 OAKLAND, Alameda Co., Cal. 1717 Broadway.
 Two-story and basement reinforced concrete store (75x110-ft.).
 Owner—Mrs. Phillip E. Bowles, Russ Bldg., San Francisco.
 Architect—Douglas Stone, 1706 Broadway, Oakland.

Plans Being Prepared.
ALTERATION'S Cost, \$15,000
 SAN FRANCISCO. Geary Street near 18th Avenue.
 Alterations and additions to present building for confectionery store.
 Owner—Withheld.
 Plans by Lawrence Ebbets, 320 Fulton Street.
 More definite information will be given in a few days.

Plans Being Figured.
STORE Cost approx. \$8000
 PALO ALTO, Santa Clara Co., Calif. High Street.
 One-story hollow tile and concrete store (50x100-ft.).
 Owner—Geo. T. McLachlan, 426 Channing Way, Palo Alto.
 Plans by E. Reichel, 303 University Ave., Palo Alto.

Contract Awarded
NEWSPAPER BLDG. Cost, \$170,000
 LOS ANGELES, Cal. No. 1545 N. Wilcox Avenue.
 Class A reinforced concrete newspaper building (115x127 ft.).
 Owner—Ira C. Copley and Southern California Newspaper Assn., 510 S. Spring St., Los Angeles.
 Architect—Francis D. Rutherford, Mills Fraser Bldg., Santa Monica.
 Contractor—Henry W. Schlueter, 9800 Yeakim St., Beverly Hills.
Steel—McClintic-Marshall Co., Los Angeles.

Preparing Working Drawings.
OFFICES Cost, \$—
 LOS ANGELES, Cal. SW Eighth and Flower Sts.
 Five-story and basement Class A reinforced concrete offices and lafts (45x115 feet).
 Owner—Owl Drug Co., 551 S. Broadway, Los Angeles.
 Architect—Edwin Bergstrom, Citizens National Bank Bldg., Los Angeles

Plans To Be Prepared.
STORE Cost, \$—
 BAKERSFIELD, Kern Co., Cal. 10th and K Sts.
 Three-story brick store.
 Owner—S. H. Kress Co., Western Pacific Bldg., Los Angeles.
 Architect—Not Selected.
 The building will be of brick and concrete construction and will have brick and terra cotta facing, composition roofing, gas heating, hardwood and cement floors, elevator, metal store fronts, plate glass, fire escapes, metal fire doors, etc.

Preliminary Plans Being Prepared.
BANK Cost, \$—
 MONTEREY, Monterey Co., Cal. Location not selected.
 One-story and mezzanine floor bank (type of structure not determined)
 Owner—Monterey County Trust & Savings Bank.
 Architect—H. H. Winner Co., 580 Market St., San Francisco.
 Proposed project is in a very preliminary stage.

Contract Awarded.
STORE Cost, \$12,000
 WOODLAND, Yolo Co., Cal.
 One-story frame jewelry store (15x60 feet)
 Owner—Mrs. Frankie Payne, Woodland.
 Architect—W. H. Weeks, 111 Sutter St., San Francisco.
 Contractor—J. Matroni, Woodland.

Completing Plans.
STORE Cost, \$30,000
 MONTEREY, Monterey Co., Cal.
 Two-story reinforced concrete store.
 Owner—J. M. Oliver.
 Architect—Swartz & Ryland, Spazler Bldg., Monterey.
 Bids will be called for shortly.

Contract Awarded.
OFFICES Cost, \$8500
 MARTINEZ, Contra Costa Co., Cal. Escobar and Estudillo Sts.
 One-story brick offices.
 Owner—Raymond Clags.
 Architect—F. H. Slocombe, 62 York Drive, Oakland.
 Contractor—Wallace Snelgrove, Alhambra Ave., Martinez.

Plans Completed.
STUDIO Cost, \$—
 MONTEREY, Monterey Co., Cal.
 One-story frame and stucco architects' studio
 Owner—Swartz Ryland.
 Architect—Swartz & Ryland, Spazler Bldg., Monterey.
 Segregated bids will be taken within a few days.

Plans Completed.
STORE Cost, \$250,000
 LOS ANGELES, Cal. NW Wilshire Blvd. and Westmoreland Ave.
 Two-story and basement Class C concrete and brick store (175x175 ft.)
 Owner—Westmoreland Building Co.
 Architect—Walker & Eisen, Western Pacific Bldg., Los Angeles.
 Bids will be taken within a few days.

Contract Awarded.
OFFICES Cost, \$1,085,200
 LOS ANGELES, Cal. Civic Center.
 Property bounded by First, Spring Broadway and Court Sts.
 Twelve-story and basement Class A State Office Building.
 Owner—State of California.
 Architect—John C. Austin (of the firm of John C. Austin and Frederick M. Askey), Chamber of Commerce Bldg., Los Angeles.
 Contractor—Veymouth-Crowell, 2101 E. 15th St., Los Angeles, at \$695,800.

Following is a complete list of bids received on general contract:
 Veymouth-Crowell Co., \$622,000; (1) omitting terrace, driveway and retaining walls, deduct \$400; (2) if terra cotta is substituted for granite on portion of exterior, add \$73,800; (5) if garage is left unfinished, deduct \$2800.

Pozzo Constr. Co., \$629,975; (1) deduct \$2400; (3) add \$73,000; (5) deduct \$3250.
 R. E. McKee, \$631,800; (1) deduct \$2600; (3) add \$75,800; (5) deduct \$2900.

H. M. Baruch Corp., \$634,937; (1) deduct \$2000; (3) add \$73,930; (5) deduct \$2300.
 Christ Thoren, \$638,638; (1) deduct \$1500; (3) add \$82,000; (5) deduct \$2500
 C. J. Kubach-Snyder Co., \$643,200; (1) deduct \$3250; (3) add \$76,900; (5) deduct \$3210.

Lange & Bergstrom, \$644,000; (1) deduct \$4254; (3) add \$76,000; (5) deduct \$2900.

L. A. Contracting Co., \$644,000; (1) deduct \$3700; (3) add \$75,000; (5) deduct \$2000.

MacDonald & Kahn, \$653,000; (1) deduct \$3500; (3) add \$75,000; (5) deduct \$3000.

Schuler & McDonald, \$659,749; (1) deduct \$3011; (3) add \$115,000; (5) deduct \$2950.

Other Awards

Other awards follow:
Granite—McGillvray-Raymond Co., Los Angeles, \$65,955.
Structural Steel—Consolidated Steel Corp., Los Angeles, \$128,775.
Electrical Work—H. H. Walker Elec. Co., Los Angeles, \$48,894.
Elevators—Consolidated Steel Corp., Los Angeles, \$47,900.
Plumbing—Pacific Pipe & Supply Co., Los Angeles, \$47,073.
Heating—Lohman Bros., Los Angeles, \$33,382.
Ventilating—J. Herman Co., Los Angeles, \$16,850.

Work Started.
REMODELING Cost, \$40,000
 SAN FRANCISCO. Stockton St. and Maiden Lane.
 Remodel present 3-story building for confectaurant.
 Owner—Dr. Felix Lengfeld.
 Plans by L. and E. Emanuel, 2665 Jones Street.
 Lessee—Poster & Orear.

Plans Being Figured.
BANK Cost, Approx. \$20,000
 CASTROVILLE, Monterey Co., Cal.
 One-story brick bank.
 Owner—Monterey County Trust & Savings Bank, Salinas.
 Architect—H. H. Winner Co., 580 Market St., San Francisco.

Segregated Bids Being Taken.
STUDIO Cost, \$—
 MONTEREY, Monterey Co., Cal.
 One-story frame and stucco architects' studio.
 Owner—Swartz & Ryland.
 Architect—Swartz & Ryland, Spazler Bldg., Monterey.

Sub-Contracts Awarded.
STORE Cost, \$70,000
OAKLAND, Alameda Co., Cal. NE
Twentieth St. and Broadway.
Two-story steel frame and reinforced
concrete store (terra cotta front;
83x90 feet).

Owner—R. H. Cross, Mills Bldg., San
Francisco.

Architect—Alben Froberg, Ray Bldg.,
Oakland.

Contractor—H. J. Christensen, 1924
Broadway, Oakland.

Mill Work—Buttner & Manning, 1308
Harrison St., San Francisco.

Heating and Plumbing—Scott Co.,
113 Tenth St., Oakland.

Electric Work—Scott-Buttner Co., 19
Grand Ave., Oakland.

Safe Doors—Hermann Safe Co., How-
ard and Main Sts., San Francisco.

Ornamental Iron—Michel & Pfeffer
Iron Works, Harrison and Tenth
Sts., San Francisco.

Sidewalk Doors—P. H. Jackson & Co.,
415 Bryant St., San Francisco.

Structural Steel—Judson-Pacific Co.,
609 Mission St., San Francisco.

Terra Cotta—N. Clark & Sons, 116
Natoma St., San Francisco.

Steel Sash—Michel & Pfeffer Iron
Works, Harrison and Tenth Sts.,
San Francisco.

Will have steam heating system, tar
and gravel roof.

Being Done By Day's Work.
STORE Cost, \$—
RICHMOND, Contra Costa Co., Cal.

Cutting Blvd. and 15th St.
One-story frame and stucco grocery
store (Spanish type).

Owner—A. S. Whiteside, Richmond.
Architect—James Narbett, 474 31st
St., Richmond.

Plans Being Completed.
MARKET Cost, \$120,000
LOS ANGELES, Cal. NE Beverly
Blvd. and Kingsley Drive.

One-story and basement Class A re-
inforced concrete market and garage
(176x143 ft.)

Owner—Gore Bros.
Architect—Balch & Stanbery, Film
Exchange Bldg., Los Angeles.

Lessee—Union Public Market Co.
Plans Being Completed.

STORE Cost, \$150,000
LOS ANGELES, Cal. SE Washington
and Rimpau Blvd.

Two-story and basement brick store
and offices (160x140 feet).

Owner—Trabue Pittman.
Architect—S. Charles Lee, 2404 W. 7th
St., Los Angeles.

Bids will be taken in about two
weeks.

Sub-Contracts Awarded.
STORE Cost, \$80,000
SAN FRANCISCO. 2718 Mission St.

Three-story concrete store.
Owner—S. H. Kresse Co., 621 S Broad-
way, Los Angeles.

Plans by Eng. Dept. of Owner.
Contractor—K. E. Parker Co., 135 So.
Park.

Excavating—Sibley Grading & Team-
ing Co., 165 Landers St.

Structural Steel—McClintic - Marshall
Co., 2050 Bryant St.

Other awards will be made shortly.

THEATRES

Plans Being Figured—Bids Close Oct.
30th.

THEATRE Cost approx. \$1,000,000
OAKLAND, Alameda Co., Cal. Broad-
way near Hobart Street.

Class A theatre building.
Owner—Publix Theatres, Inc.

Architect—Miller & Pfueger, 580 Mar-
ket St., San Francisco.

Bids are being taken from a select-
ed list of contractors. Separate bids

will be taken on mechanical work,
electrical and plumbing.

Contract Awarded.
THEATRE Cost, \$—
BEVERLY HILLS, Los Angeles Co.,
Cal. Wilshire Blvd. and Reeves
Drive.

Class A reinforced concrete theatre
(to seat 2500).

Architect—B. Marcus Priteca, Warner
Theatres.

Owner—B. Marcus Priteca, Warner
Bros. Downtown Theatre Bldg.,
Los Angeles.

Contractor—Macdonald & Driver, 111
W-Seventh St., Los Angeles.

Contract Awarded.
REMODELING Cost, \$—
FRUITVALE, Alameda Co., Cal. 3720
12 1/2 14th Street.

Remodel theatre (enlarge foyer).
Owner—Golden State Theatres, Inc.

Architect—Reid Bros., 105 Montgom-
ery St., San Francisco.

Contractor—Alf. Hooper, 1769 Pleas-
anton Valley Ave., Piedmont.

Plans Approved.
THEATRE Cost, \$500,000
ALAMEDA, Alameda Co., Cal. N Cen-
tral Ave. W Park St.

Structural steel frame and reinforced
concrete theatre (to seat 3000).

Owner—Alameda Amusement Co.
Architect—Miller & Pfueger, 580 Mar-
ket St., San Francisco.

Bids will be taken the early part of
November.

WHARVES AND DOCKS

Contract Awarded.
REPAIRS Cost, \$13,000
OAKLAND, Alameda Co., Cal. Foot
of 7th St.

Repairs to dock.
Owner—Albers Bros. Milling Co., foot
of 7th St., Oakland.

Architect—None.
Contractor—Healy-Thibbitts Const. Co.,
64 Pine St., San Francisco.

SAN FRANCISCO—Healy Thibbitts
Const. Co., 64 Pine St., at \$39,200
awarded contract by B. F. Lamb, Sec-
retary Board of Park Commissioners,
Park Lodge, Golden Gate Park, for
(1) construction of two wharves; (2)
construction of approximately 100
yacht berths. The above work is
in connection with Yacht Harbor Ex-
tension at the Marina.

Plans Being Prepared.
REPAIRS Cost, \$—
SAN FRANCISCO. Fort McDowell.
Repairs to dock.

Owner—U. S. Government.
Architect—Constructing Quartermas-
ter, Fort Mason.

Bids will be called for shortly.

SAN FRANCISCO.—See "Govern-
ment Work and Supplies" this issue.
Bids wanted for repairs to torpedo
wharf at Fort Winfield Scott.

October 9, 1930

SAN FRANCISCO—Measure No. 9
on the November ballot will provide
for the issuance of \$10,000,000 in bonds
by the State of California to finance
improvements on the San Francisco
waterfront, the interest and redemp-
tion fund to be paid from the earn-
ings of the harbor. The construction
program involves:

Eight modern concrete piers north
of the Ferry Building, \$5,200,000.

One new concrete pier at China
Basin, \$900,000.

Two bulkhead wharves in the Cen-
tral Basin, \$500,000.

Islais Creek development, including
seawall, piers and wharves and grain

terminal extension, \$1,500,000.

Refrigeration terminal extension,
\$500,000.

Belt Railroad extension across Third
St. bridge to China Basin, Central
Basin and Islais Creek, \$400,000.

Other miscellaneous construction,
\$1,000,000.

Bids Rejected.
REPAIRS Cost, \$—
SAN FRANCISCO. Ft. Winfield Scott

Repairs to torpedo wharf.
Owner—United States Government.

Architect—Constructing Quartermas-
ter, Fort Mason.

New bids will be called for immedi-
ately. Following are the bids pre-
viously submitted:

Healy-Thibbitts Const. Co., 64
Pine St. \$1,721

M. B. McGowan 1,884

Duncansen-Harrelson Co. 2,091

Bids held under advisement.

MISCELLANEOUS CONSTRUCTION

SANTA ROSA, Sonoma Co., Cal.—
L. O. Heckman, % Harry Patterson,
Santa Rosa, has leased Kinslow
property in Fifth St., formerly oc-
cupied by the Central Garage, and
will expend \$10,000 in the construction
of a 27-hole miniature golf course.

SANTA CLARA, Santa Clara Co.,
Cal.—Until October 20, 8 P. M., bids
will be received by A. J. Cronin, city
clerk, to construct concrete safety
island at intersection of Grant St.
and The Alameda. Specifications ob-
tainable from office of the city engi-
neer.

SANTA ROSA, Sonoma Co., Cal.—
Until October 21, 5 P. M., bids will
be received by Ney L. Donovan, city
clerk, to furnish material and con-
struct Rose Portal in Fremont Park.
Certified check 10% payable to city
required with bid. Specifications ob-
tainable from city engineer.

Preparing Working Drawings.
BUILDING Cost, \$20,000
SAN RAFAEL, Marin Co., Cal.

Two-story brick humane society bldg.
Owner—Humane Society.

Architect—N. W. Sexton, deYoung
Bldg., San Francisco.

Bids will be called for in three or
four weeks.

REDWOOD CITY, San Mateo Co.,
Cal.—City Engineer C. L. Dimmitt
has completed specifications and bids
will be asked at once by the city
council to erect six-foot wire fencing
fronting the new municipal corpora-
tion yard in Chestnut St.

EUREKA, Humboldt Co., Cal.—
Board of Education contemplates
early construction of a swimming
pool adjacent to the Albee Stadium.
Preliminary estimates of cost will be
submitted shortly.

MISCELLANEOUS SUPPLIES AND MATERIALS

LOS ANGELES, Cal.—Until Oct. 14,
2 P. M. bids will be received by Mame
B. Beatty, county clerk, to furnish
and install:

(a) One 110-volt D. C. teletype in
Los Angeles office flood control;

(b) One 32-volt D. C. teletype at
Opita's Camp.

Specifications obtainable from clerk,
Hall of Records, Los Angeles.

SAN FRANCISCO.—D. N. & E. Walter Co., 562 Mission St., awarded contract by Leonard S. Leavy, city purchasing agent, under Proposal No. 590, to furnish and deliver carpets and linoleum:

Item No. 1.—Carpets, Wilton carpets, worsted; to be in accordance with U. S. Government, Master Spec. No. 503;

Grade: B, carpets, pile, worsted; frames, 5.

Shots: 3; pitch, 256; wires, 16½. Weight, worsted: 31 oz, weight, cotton, 19 oz, total weight, 50 oz.

Pattern: The Purchaser of Supplies to select a design and adopt same as the exclusive pattern for use in public institutions.

Quantity: 1,000 yards will be ordered at once for treating locations in City Hall and Hall of Justice.

Additional Quantity: The City is to have the option of ordering at the bid price an additional quantity, not to exceed 1,000 yards, until June 30, 1931.

Laying: Bid price is to include cutting sewing, making, sizing and laying with underlining; contractor to supply an underlining to consist of 3 layers of cotton-filled lining weighing not less than 135 to 145 lbs. per bale of 200 yards.

Price per yard, including laying, \$1.42.

Item No. 2.—Linoleum that may be ordered from time to time during the fiscal year, 1930-31.

Linoleum: Shall be in accordance with U. S. Government Master Spec. No. 209, Battleship Linoleum.

(a) Light Battleship, without laying \$1.09½ per square yard.

(b) Medium Battleship, without laying, \$1.42 per square yard.

(c) Heavy Battleship, without laying, \$1.68 per square yard.

(d) Extra charge for laying with tacks, \$0.24 per square yard.

(e) Extra charge for laying with cement solid, \$0.34 per square yard.

SACRAMENTO, Calif.—Associated, Standard and Union Oil Companies, at \$1.39 per barrel submitted identical bids to Board of Education to furnish fuel oil for schools. Contract let to Associated Oil Co.

VALLEJO, Solano Co., Cal.—Basalt Rock Co., Napa, awarded contract by board of education to furnish and deliver commercial and Diesel fuel oil for current fiscal year. Federal Electric Co. awarded contract to furnish electric light bulbs as required by the board during the same period.

BUSINESS OPPORTUNITIES

SAN FRANCISCO.—Names and addresses of the individuals or firms concerned in the following opportunities will be furnished on request to the Business Opportunity Department of Daily Pacific Builder, 545-547 Mission Street, Phone Garfield 8744.

20495—Railroad Ties. Mexico, D. F. Party in position to furnish railroad ties by contract, in large and periodical amounts, seeks a local market.

20496—Representation. Vancouver, B. C. Well-established sales organization in Vancouver, B. C., is desirous of obtaining additional agencies for oil burning equipment and general engineering supplies.

20504—Banana Dehydrators. New York, N. Y. Party inquires for literature from manufacturers of banana dehydrators.

20505—Asphaltum. Hamburg, Germany. Firm desires supply of crude asphaltum.

20509—Lighting Fixtures. Detmold, Germany. Manufacturer of artistic lighting fixtures seeks a local market.

20512—X-Ray, Diathermal Apparatus. Berlin, Germany. Manufacturer of special dental X-ray and diathermal

apparatus, seeks contact with California importers.

20517—Tracing Paper. Freiburg, Germany. Manufacturer of tracing paper desires to communicate with importers of this commodity.

20518—Paint. Hamburg, Germany. Manufacturer of a new hygienic paint seeks local connections.

20519—Milling Machines. Chemnitz, Germany. Manufacturer of milling machines for metal industries desires to appoint a representative in this territory.

20521—Representation. Germany. Manufacturer of belting (of cotton, camel hair, balata, etc.), pressing cloth of camel hair or wool, and asbestos automobile brake lining, seeks a local representative.

20522—Scales, Cranes. Hannover, Germany. Manufacturer of scales and cranes desires to communicate with California importers.

20525—Enameled Kitchenware. San Francisco, Calif. An Italian firm engaged in the manufacture of enameled kitchenware, on the special process of which manufacture they have a registered patent, wish to introduce their product on the Pacific Coast.

20527—Furniture. San Francisco, Calif. Czechoslovakian manufacturer of bentwood furniture seeks a local market.

20528—Mining Machinery. Sofia, Bulgaria. Firm is anxious to secure a small machine for extracting gold from sand.

20534—Lumber. San Francisco, Cal. Party now handling Philippine lumber in Japan is desirous of extending market to the United States.

20537—Milling Machinery. Tepic, Mexico. Firm wishes to enter into commercial relations with manufacturers of mining machinery.

Howard L. Miller, care Y. M. C. A., 220 Golden Gate Ave., San Francisco, former sales manager with wide acquaintance in Arizona and Old Mexico, is available for representing exclusively on commission basis, manufacturers, engineering firms or jobbers in that territory.

Martin J. Varley, Rockingham Marble Corp.) 126 Green St., New York, N. Y., is looking for an agent to handle Black Marble Chips suitable for terrazzo floor work.

Gaylord C. Clark Co., 6616 Gratiot Ave., Detroit, Mich., manufacturers of playing golf games, is interested in securing a distributor for the state of California.

C. V. Musgrave (Pencil Tee Mfg. Co.) 1655 Sandy Blvd., Portland, Ore., manufacturing a new type golf tee is anxious to get in touch with a good distributor in the San Francisco Bay district.

James E. Johnston, president of the Albion O. L. Sales Co., 8 E. Long St., Columbus, Ohio, desires to secure salesmen in San Francisco to sell an automatic intermittent vegetable sprayer and display stand which prevents vegetables from wilting and shrinking.

ORDINANCE WILL GOVERN GAS INSTALLATIONS

The city council of Carmel, Monterey County, will adopt an ordinance presented by the Pacific Gas & Electric Company governing gas appliance installations. The ordinance is said to be sponsored by national safety organizations and specifies in considerable detail the materials that may be used and types of fixtures that may be installed.

The gas company's only interest in the ordinance is to protect consumers, particularly against unapproved appliances which through faulty combustion might have fatal results in use.

DECOTO TO RESIGN

EXRA W. Decoto, state railroad commissioner, announces he would not be a candidate for reappointment when his term expires at the end of this year. Decoto said he would enter private practice of law in Alameda County where he was district attorney many years.

MEDAL AWARDS FOR SMALL HOME DESIGNS

A new small house architectural competition is being conducted under the auspices of the "Better Homes in America," Washington, D. C.

Dr. Ray Lyman Wilbur, Secretary of the Interior and president of "Better Homes in America," has announced that three gold medals will be awarded each year to the architects who submit the best designs for small houses which have been erected anywhere in this country during the preceding year. Any house actually built during 1929 may be entered in the current competition, provided the cube above the level of the first floor is not greater than 24,000 cubic feet. This requirement practically limits the competition to houses of from three to six rooms.

In order to enter a house in the competition, floor plans, blue prints, two elevations, interior details and photographs of the house must be submitted to the American Institute of Architects in Washington. The awards are to be announced early in January.

VALLEJO MOVES TO PROTECT LOCAL LABOR

A movement initiated by the Vallejo Central Labor Council to amend the city charter so that Vallejo citizens will be given preference on projects financed by public coin, or by an ordinance, if a charter change is not necessary, has received the endorsement of the Vallejo Chamber of Commerce.

A tentative copy of the charter amendment provides that all preference be given in contract work let by the city to U. S. citizens or those who have expressed the intention of becoming U. S. citizens, an eight-hour day, a wage scale compatible with that in similar lines of work locally, and that preference in hiring men, be given to workmen who have resided in the city for a year or more.

INTELLIGENT REASONING

Co-operation between organizations of employers and employees means the intelligently reasoned settling of common goals and objectives by two self respecting and equally represented parties.

We believe firmly that true co-operation in the building industry can proceed genuinely only on this basis.

We expect hostile employers and anti-union business men will condemn the making of trade union agreements by employers of union labor and employees representing union labor, but we believe that such procedure to be basically correct and substantially successful to date.

We firmly believe that the truest essence of co-operation will be found between employer and employee keeping together and not by separation of one from the other.—(Boston Builders Record).

CREATE JOBS SAYS DAVIS

The best cure for unemployment is in practical construction work, and "the way to put people to work is to create jobs for them to fill," says Secretary of Labor James J. Davis.

Engineering News Section

BRIDGES

WATSONVILLE, Santa Cruz Co., Cal.—County Surveyor Lloyd Bowman announces construction on the underpass at Chittenden, estimated to cost \$50,000, will be started within two months. The project will be financed by the county and the Southern Pacific R. R.

SAN MATEO COUNTY, Cal.—Until October 29, 2 P. M., bids will be received by State Highway Commission to construct a reinforced concrete girder bridge over Redwood Slough near Redwood City, consisting of three 35-ft. spans and one 22-ft. span on concrete pile bents.

See call for bids under official proposal section in this issue.

LOS ANGELES, COUNTY, Cal.—Until October 29, 2 P. M., bids will be received by State Highway Commission to construct reinforced concrete girder bridge over The Atchison, Topeka and Santa Fe Railway at Manhattan Beach, consisting of one 42-ft. span two 31-ft. spans and one 30-ft. 10-in. span and one 30-ft. 2-in. span on concrete bents.

See call for bids under official proposal section in this issue.

SACRAMENTO, Cal.—Until Oct. 13, 10 A. M., bids will be received by Harry W. Hall, county clerk, to construct East Fender of Walnut Grove bridge.

Certified check 10%, payable to Chairman of the Board of Supervisors required with bid. Plans obtainable from County Engineer Chas. Deterding.

LOS ANGELES, Calif.—Co. Bridge Engineer W. B. Armstrong completes plans for reinforced concrete bridge in Pomona Blvd. over Alhambra Wash; will consist of one reinforced concrete arch span, 100-ft. in length, and an overall width of 100-ft. Roadway 74-ft. wide.

SALINAS, Monterey Co., Cal.—Ben C. Gerwick, Inc., 112 Market St., San Francisco, at \$31,219 awarded contract by county supervisors to construct bridge over Elkhorn Slough on Salinas-Watsonville Highway.

STOCKTON, San Joaquin Co., Cal.—George French, Jr., P. O. Box 675, Stockton, at \$1,935 awarded contract by county supervisors to construct culverts on J. R. Russell road. Other bids: Nelson Bros., \$1,940; J. N. Kristich, \$2,043.

STOCKTON, San Joaquin Co., Cal.—Until Oct. 27, 11 A. M., new bids will be received by Eugene Graham, county clerk, to construct concrete and timber bridge over Littlejohn Creek on Kaiser Lane, one mile SE of Stockton. Estimated cost, \$1500.

Certified check 10% payable to Chairman of Board of Supervisors required with bid. Plans on file in office of clerk. Julius Manthey, county surveyor.

WOODLAND, Yolo Co., Cal.—County clerk has been instructed to advertise for bids to construct two bridges over the Winters Canal between Madison and Winters; total

cost, \$4,000. Plans on file in office of clerk.

REDWOOD CITY, San Mateo Co., Calif.—City Engineer C. L. Dimmitt making survey to determine estimates of cost for a bridge over Redwood Creek, also for replacement of the existing Bradford St. bridge. Both these projects are in connection with the proposed extension of Main St. over Redwood Creek to connect up with the Bayshore Highway, as petitioned for by property owners.

SANTA BARBARA, Cal.—County supervisors reject bids to construct steel bridge with reinforced concrete deck, web, wing walls, etc., over San Jose creek in Patterson Ave., Rd. Dist. 3. County Surveyor Owner H. O'Neill will prepare new plans. Bidders were: Merritt-Chapman & Scott Corp., \$7711.09; Roy L. Richardson, \$8741.86; Wm. Ledbetter & Co., \$10,226.

SANTA BARBARA, Cal.—Until 10 A. M., Nov. 3, bids will be received by the county supervisors for constructing a reinf. conc. bridge over San Pedro Creek in the 3rd District. Plans obtainable from county surveyor, O. H. O'Neill. D. F. Hunt is county clerk.

SANTA CRUZ, Santa Cruz Co., Cal.—C. C. Gildersleeve, Felton, at \$11,413 awarded contract by county supervisors to construct reinforced concrete arch bridge in San Lorenzo Road District over Boulder Creek at mouth end of Central Ave. in town of Boulder Creek. Will be 91-ft. long with 61-ft. span; 30-ft. wide with 4-ft. walks on either side. Complete list of bids follows:

C. C. Gildersleeve.....	\$11,413
Pacific Const. Co., Oakland.....	11,619
Leo Cardwell Const. Co., Santa Cruz.....	12,266
S. Sciarrino, San Jose.....	12,420

HUMPHOLDT COUNTY, Cal.—Until October 17, 2 P. M., bids will be received by F. W. Hazelwood, district engineer, State Highway Commission, 546 Wabash Ave., Eureka, to remove and replace the timber lift span of the bridge over Eureka Slough at Eureka, consisting of one 75-ft. truss span.

DREDGING, HARBOR WORKS & EXCAVATIONS

MARTINEZ, Contra Costa Co., Cal.—Daniels Contracting Co., San Francisco, awarded contract by Berkeley Waterfront Co. to construct a rock and pile seawall 12,600-ft. long, extending from the eastern shore of upper San Francisco Bay from the Ford plant holdings in Richmond to a point near Point Isabel in Alameda county. The Berkeley Waterfront Company recently purchased 352 acres of tidelands in the above area from Gustav Niebaum Company. It is this property which, according to unconfirmed reports, is to be developed into industrial holdings and terminal sites which will be operated largely by the Western Pacific, Great Northern and Sacramento Northern railroad interests or their allied corporations.

SAN FRANCISCO.—Until October 15 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public

Works, for dredging of a boat channel and making levee repairs at the Mills Field Municipal Airport. Estimated cost, \$2400. Certified check 10%, payable to clerk of the board of supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall, on deposit of \$10, returnable.

OAKLAND, Cal.—City council rejects bid of American Dredging Co., 250 California St., San Francisco, at \$4653 for 16,000 cu. yds. clamshell dredging at Ninth Avenue Pier. New bids will be asked.

OAKLAND, Cal.—American Dredging Co., 255 California St., San Francisco, at 29½ c. cu. yd. (\$13,982.50) awarded contract by City Port Commission for dredging in front of Market and Grove St. piers on Inner Harbor.

SAN FRANCISCO.—See "Wharves and Docks," this issue. Contemplated expenditures of State Harbor Commission on San Francisco Harbor under Measure No. 9 on the November ballot providing for the issuance of \$10,000,000 in bonds for construction.

IRRIGATION PROJECTS

MERCED, Merced Co., Calif.—Aldrin and Anderson, Turlock, at \$37,470.50 awarded contracts by Merced Irrigation District for 524,000 sq. ft. of shaping and lining canals with 2-in. concrete. Carlson Bros., Turlock, bid \$40,233.50.

TURLOCK, Stanislaus Co., Calif.—Aldrin and Anderson, P. O. Box 222, Turlock, at \$3,645 awarded contract by Turlock Irrigation District, for 54,000 sq. ft. 2-inch concrete canal lining under Schedule No. 10, Lateral Lower No. 7.

TURLOCK, Stanislaus Co., Calif.—Pacific Properties and Const. Co., 3747 Woodruff Ave., Oakland, awarded contract by Turlock Irrigation Dist., under Schedule No. 8, for construction in Improvement District No. 53 (Baxter Ditch), involving:

Section No. 1, 171,076 sq. ft. 2-in. concrete canal lining, \$16,868.09.

Section No. 2, 64 concrete check gates, involving 58,76 cu. yds. \$940.48.

Section No. 3, 34 concrete structures, involving 42.06 cu. yds., \$538.34.

MERCED, Merced Co., Calif.—Until Nov. 4, new bids will be received by Merced Irrigation District to furnish and deliver 4,000 barrels of Portland cement. Previous bids rejected. Cement is desired to which has been added at the cement mills 3 lbs. of Celite to each 94 lbs. of cement. Cement must be manufactured in the state of California. Delivered to district in commercial cement cloth and/or paper sacks in carload lots, f.o.b. Merced or any other railroad station within the district. Prices shall be quoted for delivery at Merced, with the understanding that such adjustment in prices will be made for cement delivered at other points as shall be proper in view of the difference in freight rates.

Most of the cement will be used in the concrete lining of canals and the construction of certain structures, and while it is expected that the greater

portion of the work will be completed by June 1, 1931, it is possible that some deliveries of cement may be required at intervals up to Sept. 30, 1931. Deliveries are to be made in such quantities and at such times as the District shall direct upon a maximum of three days' notice. Certified check 6% payable to district required with bid.

STREET LIGHTING SYSTEMS

VISALIA, Tulare Co., Cal.—County council declares intention (137-C) to install ornamental electrolter system with 51 two-light standards together with underground system in portions of North and South Locust St.; North and South Court St., etc. Standards of Union Metal Mfg. Company's Design No. 2281. 1911 Act. Bond Act 1915. Hearing October 29. Ida Markham, city clerk.

SAN FRANCISCO—Board of Supervisors has authorized Leonard S. Leavy, city purchasing agent, 270 City Hall, to ask bids to furnish 600 metal and 300 concrete boulevard lighting standards to be installed on new boulevards now constructed and to be constructed in various sections of the city.

ALTURAS, Modoc Co., Calif.—City council will start proceedings shortly to install ornamental electrolter system in Main Street and in the residential district. S. A. Mushen is city engineer.

SAN RAFAEL, Marin Co., Cal.—Until Oct. 21, bids will be received by Eugene W. Smith, city clerk (\$43) to install ornamental street lighting system together with underground system in Fourth St. from E. St. to point 77 feet west of S Street, involving 24 Westinghouse 15 trustee standards. 1911 Act. Bond Act 1915. Plans on file in office of clerk. H. K. Brainerd, city manager.

LOS ANGELES, Cal.—Newbery Electric Co., 726 S. Olive St., submitted low bid to the Board of Public Works at \$179,488 to install ornamental lighting system in Ventura Blvd., between Sepulveda Blvd. and Lankershim Blvd., involving concrete posts; 1911 Act. Other bids were: A. C. Rice, \$179,500; Marbelite Corp., \$179,658; John R. Davies, \$195,600; Walker-Martin Corp., Ltd., \$200,500; H. H. Walker, \$207,775; Drew A. Bernard, \$223,000; Underground Constr. Co., \$224,660.

LOS ANGELES, Cal.—Newbery Electric Co., 726 South Olive St., Los Angeles, at \$179,488 awarded contract by Board of Public Works to install ornamental electrolter system in Ventura Blvd., between Sepulveda and Lankershim Bivds.

REDWOOD CITY, San Mateo Co., Cal.—City Improvement Co., 2955 Center St., Berkeley, at \$7,890 awarded contract by city council (M-14) to install ornamental street lighting system, 17 2-light standards, in Broadway bet. El Camino Real and Brewster Ave., etc., together with underground system. Union Metal Design No. 8092.

RED BLUFF, Tehama Co., Cal.—City Engineer W. F. Lunning, preparing plans for ornamental street lighting together with underground system in both sides of Walnut St. from Main St. to the Southern Pacific Railroad. Steel standards of the Street Lighting and Equipment Company of California will be specified.

MACHINERY AND EQUIPMENT

PHOENIX, Ariz.—Until October 20, 2 P. M., bids will be received by Jno. B. Brown, superintendent, U. S. Indian School, to furnish and deliver school bus, seating capacity from 45 to 50 pupils; 1½-ton chassis with dual wheels; wheel base about 157 inches. Body dimensions 14 ft. 6 inches long, 7 ft. 6 inches wide, inside height at edge 54 inches. Further information obtainable from above.

OAKLAND, Calif.—Following contracts awarded by city council to furnish motor trucks for use of City Street Department:

F. H. Dailey Motor Co., 2324 Broadway, one "H" type truck, \$577.50.
Cochran & Celli, 417 6th St., two "F" type trucks, \$938 each, and four "E" type trucks at \$893.50 each.

Durant Sales & Service Co., 2136 Broadway, four passenger type automobiles. Prices are same on coupe or touring type, at \$645 each.

SANTA CLARA, Santa Clara Co., Cal.—Until October 20, 8 P. M., bids will be received by A. J. Cronin, city clerk, to furnish and deliver motor driven street sweeper.

PHOENIX, Ariz.—Until October 21, 2 P. M., bids will be received by John B. Brown, superintendent, U. S. Indian School, Phoenix, to furnish one hollow arm post sander, arms to be approximately 4 ft. 8 in. long, sand disc about 8 inches; equipped with special exhaust fan, vertical motor coupled to counter shaft and standard motor base and pulley for belt drive. Electric power, 220V., 3-phase, A. C., 60-cycle. To be used for surfaces such as doors, sash and table tops. Sander and extra equipment to be equal to Yates-Armstrong No. 12. Delivered f. o. b. shipping point designated by bidder or f. o. b. Phoenix, Ariz.

STOCKTON, San Joaquin Co., Cal.—County Purchasing Agent W. Y. Tretheway authorized by supervisors to purchase two 2-ton motor trucks and a station wagon for the Highway Maintenance Department, allowances to be made for two old Reo trucks and Dodge no longer required by the county.

RAILROADS

NEVADA—Bids will be asked shortly by the U. S. Bureau of Reclamation, Denver, Colo., to construct seven miles of railroad from Boulder City Dam. It is proposed to start construction on November 1.

SAN FRANCISCO—See "Wharves & Docks," this issue. Contemplated expenditures of State Harbor Commission on San Francisco Harbor under Measure No. 9 on the November ballot providing for the issuance of \$10,000,000 in bonds for construction.

FIRE ALARM SYSTEMS

LOS ANGELES, Cal.—Until Oct. 20, 2 P. M., bids will be received by the county supervisors to install traffic control signals at intersection of Long Beach Blvd. and Olive St., Compton. Name B. Besty, 303 Hall of Records, is clerk of the board.

FIRE EQUIPMENT

LOS ALTOS, Santa Clara Co., Cal.—Chamber of Commerce proposes to organize fire district and raise \$4000 to finance purchase of motor fire

equipment. F. W. Aust is manager of the Finance Committee.

GEYSERVILLE, Sonoma Co., Cal.—Geyserville Chamber of Commerce is raising \$1500 by private subscription to finance purchase of fire truck, hose and chemicals.

SAN FRANCISCO.—Until Oct. 20, 3 P. M., under Proposal No. 644, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish and deliver cotton rubber-lined fire hose for Fire Department:

2,000 ft. 2½-inch;
12,000 ft. 2½-inch;
5,000 ft. 1½-inch.

Specifications obtainable from above office.

MESA, Arizona.—Until 5 P. M., Oct. 21, bids will be received by the city council to furnish the following: 300 ft. of 2½-in. and 50 ft. of 1½-in. of either double jacketed or multiple-woven, rubber lined, cotton fire hose in 50-ft. lengths, with couplings attached of a pattern conforming to the city of Mesa standard. J. E. Miller, city clerk.

RESERVOIRS AND DAMS

LAKEPORT, Lake Co., Cal.—Smith Bros. Co., Eureka, at \$2,932 awarded contract by city council to construct reinforced concrete reservoir in connection with the municipal water works system. Excavation has been completed under a separate contract.

SAN BERNARDINO COUNTY, Cal.—Metropolitan Water Dist. of Southern California has filed application with State Department of Public Works, Division of Water Rights, seeking authorization to construct a dam in San Bernardino county to impound 717,000 acre feet of water from the Colorado river. The diversion system is to cost \$20,000,000. The concrete dam is to be 270 feet high and 550 feet long. The power plant is to have a capacity of 168,000 horsepower. The impounding area is to include lands in San Bernardino County, Cal., and Yuma and Mojave Counties, Arizona.

TURLOCK, Stanislaus Co., Cal.—Turlock Irrigation District plans immediate construction to raise the La Grange dam two feet. When completed, dam will be 128 feet in height. R. V. Melkel is chief engineer for the district.

PIPE LINES, WELLS, ETC.

MERCED, Merced Co., Cal.—Osterberg Bros., Modesto, awarded contract by Merced Irrigation District for drilling and casing three drainage wells.

SEWERS AND SEWAGE DISPOSAL PLANTS

OAKLAND, Cal.—Until Oct. 16, 12 noon, bids will be received by Frank C. Merritt, city clerk, to construct drainage structures and sewers in portions of Hopkins St., Midvale Ave., and other streets; estimated cost \$25,000; pipe 8-in. from 30-in. Bond of one-fourth amount of contract price required with bid. Plans on file in office of clerk. Walter N. Frickstad, city engineer.

REDWOOD CITY, San Mateo Co., Cal.—George DeGolyer, Federal Telegraph Bldg., Oakland, Bond \$3,846.50 awarded contract by city council to construct 18-in. concrete pipe storm sewers in El Camino Real, one fronting the Sequoia High School Campus, another at Finger Ave., and a third in the vicinity of Jackson St.

MADERA, Madera Co., Calif.—As previously reported, Thompson Bros., Fresno, at \$18,403.41 awarded contract by city trustees to construct 357 ft. 15-in. vlt. sewer; 4763 ft. 12-in. do; 2216 ft. 10-in. do; 2018 ft. 8-in. do; 10,365 ft. 6-in. do; 60 ft. 12-in. cast iron pipe sewer; 12 ft. 6-in. do; 41 concrete manholes; 17 clay lampholes; one 50 G. P. M. sewage ejector (alt. bids on single and duplex units); one concrete sump. Complete list of bids follows:

Thompson Bros., Fresno.....	\$18,403
Stroud Bros. & Seabrook, Bakersfield.....	18,553
W. J. Tobin, Oakland.....	18,553
J. T. Clinch, Oakland.....	19,385
G. C. DeGolyer, Oakland.....	19,952
P. & H. Const. Co., San Jose.....	20,173
Fred Meyers, Hayward.....	20,425
Heafey-Moore Co., Oakland.....	21,814
J. C. Hickey, Albany.....	23,410

ARCATA Humboldt Co., Calif.—A. Brizard, Inc., Arcata, at \$2736 awarded contract by State Department of Public Works, Division of Architecture, to construct 6-inch sewer at Humboldt State Teachers' College.

WATSONVILLE, Santa Cruz Co., Calif.—Granite Construction Co., Watsonville, at \$958.60, awarded contract by city council to construct 1,045 ft. of 6-inch sewer in Monte Vista Ave. Other bids: P. J. Freiermuth Co.,

WATER WORKS

SAN JOSE, Santa Clara Co., Calif.—County supervisors petitioned to authorize formation of a water works district in the section immediately south of Palo Alto. The proposed district is bounded by the Bayshore highway, Arroyo and East William roads, Seale ave. and the boundary line bet. Santa Clara and San Mateo counties. After formation the district would vote bonds of \$30,630 to finance construction of a distributing system. Water would be secured from the San Francisco Municipal System, from the Palo Alto Municipal System and district wells. Hearing of the petition has been set for November 3.

SACRAMENTO, Calif.—Until Oct. 16, 5 P. M., bids will be received by H. G. Denton, city clerk, to furnish and deliver for Water Mains Division, 125 4-in. and 50 6-in. gate valves.

Certified check 5% payable to City Controller required with bid. Specifications on file in office of clerk. Fred J. Klaus, city engineer.

SACRAMENTO, Calif.—Until Oct. 16, 5 P. M., bids will be received by H. G. Denton, city clerk, to furnish and deliver 100 4-inch valve opening fire hydrants for Water Mains Division.

Certified check 5% payable to City Controller required with bid. Specifications on file in office of clerk. Fred J. Klaus, city engineer.

Bids To Be Asked Shortly.

WATER SOFTENER Cost, \$——
SAN FRANCISCO. Letterman General Hospital.
Furnish and install water softener at power plant.
Owner—U. S. Government.
Architect—Constructing Quartermaster, Fort Mason.

SANTA ROSA, Sonoma Co., Calif.—City council rejects bid of Water Works Co., San Francisco, to clean water mains in various sections of the city.

RED BLUFF, Tehama Co., Calif.—Time set by city council to furnish and deliver 1000 feet of 4-inch cast iron pipe, class 100 lb. pressure or heavier, has been extended to October 13, 7:30 P. E. Stevens is engineer for the municipal department.

SAN FRANCISCO—Board of Supervisors has authorized the Bureau of Engineering to prepare plans to furnish and install pipe, pumping equipment and auxiliaries to convey water from the East Bay Municipal Utility District to the Hetch Hetchy system. Bids will be asked on completion of the plans. The project will be financed from the 1928 Hetch Hetchy Bond Fund. N. A. Eckart is chief engineer of the Municipal Water Department.

LOS ANGELES, Calif.—Until 11 a. m., Oct. 14, bids will be received by the city purchasing agent, Thomas Oughton, for Mueller metre sealing device; Spec. 2193.

LOS ANGELES, Calif.—City purchasing agent awarded contracts as follows to furnish pipe under Specification 2187:

National C. I. Pipe Co., 4752 lin. ft. 20-in. c. i. pipe, \$3.68 ft., and 4,308 lin. ft. 24-in. c. i. pipe, \$4.51 ft. (two delivery points).

U. S. Pipe and Foundry Co., 5760 lin. ft. 16-in. c. i. pipe, \$2.90 ft., and 9,120 lin. ft. 16-in. c. i. pipe, \$2.53 (two delivery points).

American C. I. Pipe Co., 11,316 lin. ft. 24-in. c. i. pipe, \$4.90 ft.

MERCED, Merced Co., Calif.—Bids received by Merced Irrigation District to furnish and install three drainage pumps and motors complete, have been referred to A. Blakesley, chief engineer, for tabulation and recommendation of award.

TERRA BELLA, Tulare Co., Calif.—Following bids taken under advisement by Terra Bella Irrigation District for cleaning and protective coating on approximately 20,000 feet of 26-in. to 30-in. riveted pipe, which is laid in the ground with approx. 18-in. of covering. The pipe line is located from about 1½ miles east of Terra Bella to a point about 1 mile north and 1½ miles west of Terra Bella:

Universal Air Brush Co., 1 coat, \$8,166.25; 2 coats, \$11,366.25.

Campbell-Reichert Co., \$12,606.25. Ben C. Gerwick, Inc., labor and material plus 15 per cent.

General Paint Corp., \$2.30 ft. 30-in., with 5-year guarantee; \$2.16 ft. 28-in., 5-year guarantee.

Borwick Trenching Corp., Ltd., ½-in. thick, 88c per ft. cold (alternate, cost plus overhead plus just profit).

OAKLAND, Calif.—Following contracts awarded by East Bay Municipal Utility District to furnish and deliver cast iron pipe, as per unit bid listing published in issue of September 26:

U. S. Pipe and Foundry Co., Monadnock Bldg., San Francisco, 25,000 lin. ft. 6-in. Class 250, 59c ft. (\$14,750).

17,000 lin. ft. 8-in. Class 250, 89c ft. (\$15,130).

616 tons 12-in. Class "B", \$33.70 ton (\$23,839).

437 tons 16-in. Class "B", \$33.70 ton (\$17,348).

Pacific States C. I. Pipe Co., Hunter-Dulin Bldg., San Francisco, 15,000 lin. ft. 4-in. Class 150, c. i. pipe, \$3.5c ft. (\$5,250).

TERRA BELLA, Tulare Co., Calif.—Universal Air Brush Co., at \$151.75 with alt. bid of \$565.75, submitted low bid to Terra Bella Irrigation District for cleaning and covering with a protective coating the inside of the district's 8,000-barrel stand pipe, five miles east of Terra Bella. Other bids: Campbell-Reichert Co., \$663.35; Wailes-Dove-Hermiston Corp., \$831.85; E. Anderson (sand blast), \$940 hot and \$840 cold; General Paint Corp., \$1,032 furnishing one-year guarantee. All bids taken under advisement.

SAN MATEO, San Mateo Co., Calif.—Bids will be asked at once by city council to install new pumping plant in city park to replace the present equipment; estimated cost \$1200. Plans on file in office of E. W. Foster, city clerk.

SEATTLE, Wash.—Until October 10, A. M., bids will be received by G. W. Rogers, secretary, Board of Public Works, to construct the Cedar River pipe line No. 1 and a pipe line for West Seattle; estimated cost \$1,700,000.

Work will consist of furnishing and installing a steel pipe line replacing the No. 1 Cedar river pipe line from a point near the Lake Youngs controlling works, to Beacon Ave. and Leo St., and a steel pipe line from a connection with the city's main supply lines on Beacon Ave. at Moore St. to a connection with a proposed distributing reservoir near Fourth Ave. SW and W Henderson St., together with the necessary appurtenances.

Pipe used on the Cedar river pipe line will be 66 inches in size. The official call for bids appears in the Journal of Commerce today.

This work does not include the distributing reservoir and two standpipes for West Seattle that are planned at a cost of \$700,000. T. J. Carver, assistant city engineer, in charge of plans for this work, states that estimates on these units will probably be called within two weeks.

PLAYGROUNDS & PARKS

SANTA ROSA, Sonoma Co., Calif.—Until October 21, 5 P. M., bids will be received by Ney L. Donovan, city clerk, to furnish material and construct Rose Portal in Fremont Park. Certified check 10% of contract price required with bid. Specifications obtainable from city engineer.

NO NOT RISK AN EXPERIMENT

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MILBRAE, San Mateo Co., Cal.—Lomita Park School District will purchase 1½ acres adjoining the present Lomita School District and will improve the land for playground purposes.

SANTA ROSA, Sonoma Co., Cal.—L. O. Heckman, q. Harry Patterson, Santa Rosa, has leased Kinslow property in Fifth St., formerly occupied by the Central Garage, and will expend \$10,000 in the construction of a 27-hole miniature golf course.

REDWOOD CITY, San Mateo Co., Cal.—City council has started proceedings to tree planting in Central Park and portions of Redwood Highlands.

STREETS AND HIGHWAYS

PACIFIC GROVE, Monterey Co., Cal.—Until October 16, 7:30 P. M., bids will be received by Elgin C. Hurlbert, city clerk, (3254) to improve Pacific Ave. and point 70 ft. north of Pacific Ave., involving cem. conc. curbs and gutters; 2-in. asph. conc. pavement on existing base; 2 conc. catchbasins; 4-in. vit. clay lateral sewers. 1911 Act. Bond Act 1915. Certified check 10% payable to city required with bid. Plans on file in office of clerk.

STOCKTON, San Joaquin Co., Cal.—Until Oct. 27, 11 A. M., new bids will be received by Eugene Graham, county clerk, to improve Brumel Road from Lockeford to the Montgomery Road, a distance of 1.47 miles. Previous bids rejected due to failure of the low bidder, Louis Moreing, Stockton, to present state license as required by law.

Certified check 10% payable to Chairman of Board of Supervisors required with bid. Plans obtainable from County Surveyor Julius Manthey.

REDWOOD CITY, San Mateo Co., Calif.—City Engineer C. L. Dimmitt making surveys to extend Main St. over Redwood Creek to connect with the Bayshore Highway as petitioned for by property owners. The survey will include estimates of cost for the proposed bridge over the creek, replacement of the existing Bradford St. bridge and proposed flood gates to regulate flow of tideswaters in creek to afford water supply for fire fighting purposes.

EUREKA, Humboldt Co., Cal.—W. C. Colley, 35 North Hampton Street, Berkeley, at \$15,139.50 awarded contract by county supervisors to construct Hoopa Valley road, 4½ miles in length, connecting the Hoopa Valley with highway at Willow Creek. Involves clearing, grubbing, culverts, etc. Complete list of bids follows:
W. C. Colley.....\$15,139
H. C. Anderson.....16,648
Engelhart Paving & Const. Co. 17,082
Bruce Markle.....18,150

SUNNYVALE, Santa Clara Co., Cal.—Carl Frank Co., 355 Bocana St., San Francisco, at \$1,443.75 awarded contract by city trustees to improve portions of Sunney Ave., Muenden Ave., etc., involving (a) 7,375 sq. ft. sidewalks, 15; (b) 225 lin. ft. concrete curbs, \$1.50. Other bids:

S. Sciarino, 498 Park St., San Jose, (a) \$1.18; (b) \$.60; total \$1,462.50.
Ferliot & Retinal (a) \$1.875; (b) \$1.24 total \$1,661.81.

H. N. Bishop, engineer, Bank of Italy Bldg., San Jose.

OAKLAND, Cal.—Until Oct. 14, 4:30 P. M., bids will be received by City Port Commission, 424 Oakland Bank Bldg., for paving runways between

Warehouse B and the Transit Sheds in the Outer Harbor Terminal. Project involves approximately 30,000 sq. ft. of asphalt conc. pavement. Specifications obtainable from above.

PALO ALTO, Santa Clara Co., Cal.—City Engineer J. F. Byxbee completes specifications to widen High St. bet. Addison and Lytton Streets. Street will be widened 6 ft. with removal of 3 ft. of sidewalks on each side.

COALINGA, Fresno Co., Cal.—City council is in the market for prices for resurfacing materials for the repair of paved streets in various sections of the city.

SANTA BARBARA COUNTY, Cal.—Following bids received Oct. 8 by State Highway Commission to grade and pave with Portland cement concrete 0.6-mile about ½-mile north of Santa Maria.
Santa Maria Construction Co.,
Santa Maria.....\$26,227
Cornwall Construction Co.,
Santa Barbara.....23,362
Macco Construction Co., Clearwater.....33,764

SAN BERNARDINO COUNTY, Cal.—Following bids received Oct. 8 by State Highway Commission to pave with Portland cement concrete 0.3-mile at Malaga street.
Martin Green, San Bernardino.....\$32,389
F. W. Teschke, Los Angeles.....33,319
George Gardner & Son, Redland 33,362
Mattich Bros., Elsinore.....\$34,523

WATSONVILLE, Santa Cruz Co., Cal.—Proceedings will be started by city council to pave Roosevelt St., property owners having petitioned for the work. H. B. Kitchen, city engineer.

OROVILLE, Butte Co., Cal.—Hemstreet & Bell, 411 "C" St., Marysville, at \$4,503, awarded contract by county supervisors for grading from Sta. 740 plus 60 to Sta. 763 plus 62 on the Oroville-Pentz Magalla road involving 11,850 cu yds. excavation, unclassified.

OROVILLE, Butte Co., Cal.—Hemstreet & Bell, 411 "C" St., Marysville, awarded contract by county supervisors to grade from Sta. 56 plus 50 to 81 plus 50 on the Oroville-La Porte road, involving 7812 cu. yds. material unclassified.

SANTA BARBARA, Cal.—Until November 3, 10 a. m., bids will be received by D. F. Hunt, county clerk, to pave Patterson Ave., in Third Supervisor District. Specifications obtainable from Owen H. O'Neill, county surveyor.

SAN FRANCISCO—California Construction Co., Standard Oil Bldg., at \$163,844 awarded contract by Board of Public Works to construct Section C of the Sunset Blvd. bet. Noriega and Santiago Sts., 36th and 37th Aves. Project involves:

116,200 cu. yds. excav.; 122,300 cu. yds. imp. borrow; 193,600 sq. ft. asph. mac. pave. 2½-in. asph. conc. surf. and 10-in. waterbound mac. pave.; 48,000 sq. ft. asph. conc. pave. 2-in. asph. conc. surf., 6-in. class F conc. base; 160 tons asph. conc. conform pave.; 90,800 sq. ft. 4-in. waterbound mac. pave.; 45,800 sq. ft. 6-in. do; 13,700 sq. ft. conc. sidewalk (1-course); 13,600 lin. ft. unarmored conc. curb; 100 lin. ft. (reset) conc. curb; 13,200 lin. ft. 2½-in. rv. headers; 240 lin. ft. 15-in. V.C.P. sewer; 240 lin. ft. 12-in. do; 700 lin. ft. 10-in. do; 5 brick manholes, complete; 12 walk catchbasins, complete; 540 lin. ft. 3-in. black pipe conduit; 1600 lin. ft. 1½-in. do; 9940 lin. ft. cu. yds. loam; 1860 cu. yds. manure 3 tons hay.

SAN LUIS OBISPO, S. L. O. Co., Cal.—City council petitioned to improve Grove, Hillcrest, Murray and Park Sts. in the Phillips Addition, involving curbs, gutters and paving. Type of pavement to be determined. Referred to Leon Moore, city engineer for report.

SANTA BARBARA, Cal.—City council declares intention (1115) to improve Padre St., bet. State St. and Hollister Ave., and portions of Los Olivos St., Pueblo St., Junipero St. and Wellington Ave., involving concrete pave., curb, gutter, concrete driveway, walk, reinf. concr. drain pipe, corr. iron drain pipes, house sewers, vit. sewers, etc.; 1911 act. Hearing Oct. 23. Geo. D. Gelb, city clerk.

MARTINEZ, Contra Costa Co., Cal.—C. H. Brown, 220 S 12th St., Richmond, awarded contract by county supervisors (3) to widen Lowell Ave. from 36th St. to San Pablo Ave. and 36th St. bet. Lowell and Andrade Ave., involving grading; Durite asph. conc. pavement on broken rock cushion; cement concrete curbs, gutters; vitrified ironstone sewers; br. and conc. manholes.

SAN FRANCISCO—Bureau of Engineering, Department of Public Works, completes specifications to improve crossing of 22nd Ave. and Wawona St.; est. cost \$2,600. Project involves:

100 cu. yds. excavation;
94 lin. ft. armored concrete curb;
660 sq. ft. 1-course concrete sidewalk;
3 brick catchbasin;
105 lin. ft. 10-in. V.C.P. culverts;
4,893 sq. ft. asph. conc. pavement, 6-in. class F base, 2-in. asph. concrete wearing surface.

CONTRACTORS' MACHINE WORKS SPECIALISTS ON REPAIRING AND REBUILDING OF

Bunkers, Hoppers, Chuting, Conveyors, Rollers, Mixers, Hoists, Shovels, Tractors, Pavers, Crushers, Drag Lines, Elevators, Car Unloaders, and other Road and Building Equipments;

BLACKSMITHING AND WELDING

Builders of Rosenberg Portable Car Unloaders

CREAR & BATES

57 Zoe St., bet. 3rd and 4th, off Brannan St.
Phone GAfield 4374

San Francisco

STOCKTON, San Joaquin Co., Cal.—Pieriera and Reed, Stockton, at \$25,320 awarded contract by county supervisors to improve J. R. Russell rd. Other bids: George French, Jr., \$25,520; Louis Moreing, \$26,262; Lilly, Willard & Bissoliti, \$27,218; Larsen Bros., \$30,610.

STOCKTON, San Joaquin Co., Cal.—Pieriera & Reed, Stockton, at \$14,167 awarded contract by county supervisors to improve Bacon Island rd. Other bids: Geo. French, Jr., \$14,562; Louis Moreing, \$15,079; Larson Bros., \$15,759.

SAN JOSE, Santa Clara Co., Cal.—San Jose Paving Co., San Carlos and Dupont Sts., San Jose, at \$3,731.20 awarded contract by county supervisors to improve Glen Eyrle and portion of Caroline Ave. in Supervisor District No. 4. Other bids: A. J. Ralsch, \$3,890; Union Paving Co., \$4,900; surveyor's estimate, \$4,000.

SAN JOSE, Santa Clara Co., Cal.—Union Paving Co., Calif. Bldg., San Francisco, at \$9,390, asph. conc. \$4.90 ton, awarded contract by county supervisors to improve roadway approaches to Hecker Highway Bridge in Supervisor District No. 1.

SANTA BARBARA, Cal.—Until October 14, 10 A. M., bids will be received by county supervisors to grade drain and fence 1.3 miles of highway, to be located over portions of the original San Julian Rancho. Cert. check 10% required with bid. Plans obtainable from D. F. Hunt, county clerk, on deposit of \$10.

VISALIA, Tulare Co., Cal.—L. C. Clark, Visalia, at \$1,933.50 awarded contract by city council (35-C) to improve portions of west Race St., West Grove St., Highland Ave., North Willis St., etc., involving construction of hydraulic cem. conc. curbs, driveways and sidewalks. Other bids: Kaspar Schleigh, Visalia, \$1,983.60; Valley Paving & Const. Co., Visalia, \$2,184.10.

OAKLAND, Calif.—American Bitumens Co. and Shell Oil Co. submitted identical bids to city council to furnish emulsified oil and asphalt during remainder of fiscal year ending June 30, 1931. Bid follows: Emulsified road oil, 55% asphaltic content, per gallon in tank trucks, \$0.0575, same per gallon in refilled drums, \$0.0675; emulsified road oil with 50% asphaltic content, per gallon in tank trucks, \$0.0525 same per gallon in refilled drums, \$0.0625; emulsified asphalt with 55% content per gallon in tank trucks, \$0.07, same per gallon in refilled drums, \$0.08; emulsified asphalt with 50% content per gallon in tank trucks, \$0.06, and the same per gallon in refilled drums, \$0.07.

SACRAMENTO, Cal.—Until Oct. 13, 10 A. M., bids will be received by Harry W. Hall, county clerk, to construct asphaltic concrete pavement in 65th St. Certified check 10%, payable to Chairman of the Board of Supervisors required with bid. Plans obtainable from County Engineer Chas. Deterding.

PACIFIC GROVE, Monterey Co., Cal.—City council declares intention (3276) to improve 3rd, 7th, 8th, 9th and 10th Sts. between Ocean View and Lighthouse Aves., and 4th and 6th Sts. bet. Central and Lighthouse Aves., involving cement concrete curbs and gutters; oil macadam surfacing; concrete catchbasins; 4-in. vit. clay lateral sewers. 1911 Act. Bond Act 1915. Hearing November 6. Elgin C. Hurlbert, city clerk.

BERKELEY, Alameda Co., Calif.—City council declares intention (654) to construct concrete walk and steps with concrete buttresses in east side of Euclid Ave. in the vicinity of Hilldale Ave. 1911 Act. Bond Act 1915. Hearing Oct. 21. Florence E. Turner, city clerk.

LANDER COUNTY, Nevada—Utah Const. Co., Ogden, Utah, at \$147,972.12 awarded contract by State Highway Commission to grade, construct structures and place selected surface material on 11.70 miles from town of Austin to point 12 miles east. Engineer's estimated, \$199,877.52. Complete list of bids follows:

Utah Const. Co., Ogden, Utah, \$147,972.12	J. N. Tedford, Fallon, Nev., 153,398
Dodge Bros., Inc., Fallon, 163,746	Isbell Const. Co., Carson City, Nevada, 167,243
S. H. Newell & Co., Portland, 169,904	Nevada Rock & Sand Co., Reno, 172,953
Morrison & Knudsen, Salt Lake City, Utah, 183,539	Gibbons & Reed, Salt Lake City, 201,095
Colorado Culvert and Flume Co., Pueblo, Colo., at \$4,039 awarded contract to furnish corrugated metal pipe culverts in connection with the above project. Complete list of bids follows:	Colorado Culvert & Flume Co., Pueblo, Colo., \$4,039
W. E. Newman & Sons Co., Ogden, Utah, 4,066	Flanigan Warehouse Co., Reno, 4,156
California Corrugated Culvert Co., West Berkeley, Calif., 4,251	

SANTA MARIA, Santa Barbara Co., Cal.—City council declares intention 358 to improve Cypress St., between Broadway and Suey Ave., and portions of other streets, involving 4-in. asph. conc. pavement, 3-in. oil macadam, cement gutters, walks, driveways, etc. 1911 Act. Protests, Oct. 20.

OFFICIAL PROPOSALS

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received at the office of the State Highway Engineer, Public Works Building, Sacramento, California, until 2 o'clock P. M. on October 29, 1930, at time they will be publicly opened and read, for construction in accordance with the specifications therefor, to which special reference is made, of portions of State Highway, as follows:

San Mateo County, a reinforced concrete girder bridge across Redwood Slough near Redwood City (IV-S.M-68-C), consisting of three 35'-0" spans and one 22'-0" span on concrete pile bents.

Los Angeles County, a reinforced concrete girder bridge over The Atchison, Topeka and Santa Fe Railway at Manhattan Beach (VIII-LA-60-C), consisting of one 42'-0" span, two 31'-0" spans, one 30'-10" span and one 30'-2" span on concrete bents.

Proposal forms will be issued only to those Contractors who have furnished a verified statement of experience and financial condition in accordance with the provisions of Chapter 644, Statutes of 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Bids will not be accepted from a Contractor to whom a proposal form has not been issued by the Department of Public Works.

Plans may be seen, and forms of

proposal, bonds, contract and specifications may be obtained at the said office, and they may be seen at the offices of the District Engineers at Los Angeles and San Francisco, and at the office of the District Engineer of the district in which the work is situated. The District Engineers' offices are located at Eureka, Redding, Sacramento, San Francisco, San Luis Obispo, Fresno, Los Angeles, San Bernardino and Bishop.

A representative from the district office will be available to accompany prospective bidders for an inspection of the work herein contemplated, and Contractors are urged to investigate the location, character and quantity of work to be done, with a representative of the Division of Highways. It is requested that arrangements for joint field inspection be made as far in advance as possible. Detailed information concerning the proposed work may be obtained from the district office.

No bid will be received unless it is made on a blank form furnished by the State Highway Engineer. The special attention of prospective bidders is called to the "Proposal Requirements and Conditions" annexed to the blank form of proposal, for full directions as to bidding, etc.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS.

C. H. PURCELL,

State Highway Engineer.

Dated October 1, 1930.

OAKLAND BUILDING SUMMARY

Following is a segregated report of the September, 1930, building activities for Oakland, as issued by City Building Inspector A. S. Holmes, based on the number of building permits granted:

Classification of Bldgs.	No. of Permits	Cost
1-story dwelling	23	\$1,420
2-story dwellings	7	57,000
3-story apartments	2	75,000
1-story stores	5	12,255
1-story office	6	2,430
1-story warehouse	2	14,285
1-story church	1	6,000
1-story greenhouse	1	1,000
1-story office and shop.	1	4,500
1-story tile office	1	3,500
1-story tile garage	1	300
1-story brick office	1	450
1-story brick service stn	1	3,000
1-st br. and tile ser. stn	1	6,000
Brick & tile Addition	1	3,000
1-st steel service stn.	3	4,200
1-st steel com. stn.	1	450
Steel tank	1	15,000
1-st com. con. stn.	1	400
1-st garage & whse.	1	5,000
2-st concrete store	1	80,000
Foundation	1	600
Bunkers	1	900
Billboards	9	1,500
Electric signs	55	20,450
Roof signs	3	1,655
Marquee sign	1	750
1-st garages & sheds.	57	10,983
Additions	70	46,917
Alterations & repairs	101	71,366
TOTAL	360	\$533,536

BUYS SUPPLY FIRM

The United States Steel Corporation has concluded the purchase of the properties, assets and business of the \$19,000,000 Oil Well Supply Company, a Pennsylvania corporation, the title being transferred to the Oil Well Supply Company, a New Jersey corporation and an existing subsidiary of the steel corporation.

Contracts Awarded

Liens, Acceptances, Etc.

BUILDING PERMITS

San Francisco County

1274	Fernandez	Tuomisto	\$700
1275	Hinkel	Owner	4500
1276	Olympic	Owner	300,000
1277	Holden	Terry	1500
1278	Gonadison	Owner	9000
1279	Guglielmo	Owner	4500
1280	Quistad	Owner	3000
1281	Laguens	Owner	4000
1282	Laguens	Owner	8000
1283	Old Mission	Owner	10900
1284	Bothin	Siegrist	10000
1285	Castle	Owner	5000
1286	Same	Same	4500
1287	Same	Same	4500
1288	Same	Same	5000
1289	Same	Same	5000
1290	Same	Same	6000
1291	Same	Same	5000
1292	Same	Same	5000
1293	Chickie	Psychogios	3000
1294	Hagmaler	Weinberger	5900
1295	Langsley	Owner	3900
1296	Mills	Owner	100,000
1297	Nelson	De Velbiss	3300
1298	Stoneson	Owner	7000
1299	Stoneson	Owner	14000
1300	Hardiman	Owner	5000
1301	Horgan	Owner	4000
1302	Fair	Owner	1400
1303	Lam	Owner	2000
1304	Moore	White	2000
1305	McCarthy	Owner	4000
1306	National	Owner	3500
1307	S. F.	Petersen	190,000
1308	Westerland	Owner	4000
1309	Moran	Quinn	1000
1310	Porter	Owner	1500
1311	Allen	Owner	3500
1312	Michael	Owner	5000
1313	Sheldrake	Owner	150,000

DWELLING

(1274) NE QUESADA and Lane; 1-story and basement frame dwelling.
Owner—Mr. and Mrs. A. Fernandez, 3580 San Bruno Ave.
Plans by Builder.
Contractor—W. E. Tuomisto, 3580 San Bruno Ave. \$4700

DWELLING

(1275) E FAXON 275 N Holloway; 1-story and basement frame dwelling.
Owner—Hinkel Bros., 1204 Castro.
Architect—None. \$4000

CLUB BLDG.

(1276) NW POST and Mason Sts.; 23-story class A club building.
Owner—The Olympic Club, Post and Mason Sts.
Architect—Bauer, Brown & Bakewell, 251 Kearny St.
Mechanical Engineers—Leland & Hayley.
Engineer—C. Snyder. \$3,000,000

GARAGE

(1277) S FILBERT 100 E Divisadero; one-story frame garage.
Owner—St. George Holden, 2901 Russ Bldg.
Architect—C. F. Strothoff, 2274 15th Street.
Contractor—W. L. Terry, 90 Allston Way, Oakland. \$1500

ALTERATIONS

(1278) SW HAIGHT and Clayton Sts. Alterations to flats for rooming house.
Owner—Mrs. J. Donaldson, La Honda, San Mateo.
Architect—J. J. Mitchell, 369 Pine St. \$9000

GARAGE & SHOP

(1279) W SAN JOSE Ave. 153 S Sandown; one-story class C garage and repair shop.
Owner—E. Guglielmo, 33 Sandown.
Plans by D. E. Jaekle, Call Bldg. \$4500

APARTMENTS

(1280) SW SCOTT and Beach; three-story & basement frame (12) apts.
Owner—T. Quistad, 2001 North Point Street.
Plans by L. O. Ebbets, 320 Fulton St. \$30,900

DWELLING

(1281) E YORK 70 N Twenty-fifth. One-story and basement frame dwelling.
Owner—Laguens & Plov, 2220 Mission St., San Francisco.
Plans by G. L. Plov, 2220 Mission St., San Francisco. \$4000

DWELLINGS

(1282) N TWENTY-FIFTH ST. 50 E York. Two one-story and basement frame dwellings.
Owner—Laguens & Plov, 2220 Mission St., San Francisco.
Plans by G. L. Plov, 2220 Mission St., San Francisco. \$4000 each

GOLF COURSE

(1283) W MISSION 185 S Twenty-fifth St. Miniature golf course.
Owner—Old Mission Greens, 1050 Pine St., San Francisco.
Architect—None. \$10,000

ALTERATIONS

(1284) SE POLK and Pacific; alterations to garage for new walls and partitions.
Owner—Bothin Real Estate Co., 604 Mission St.
Engineer—N. B. Green, Sharon Bldg.
Contractor—F. R. Siegrist, 604 Mission St. \$10,000

DWELLING

(1285) W SANTA ANA 120 N Ocean Avenue; one-story and basement dwelling.
Owner—Castle Bldg. Co., 830 Market.
Plans by D. E. Jaekle, Call Bldg. \$5000

(1286) W APTOS 120 North Ocean Avenue; one-story and basement dwelling.
Owner—Castle Bldg. Co., 830 Market.
Plans by D. E. Jaekle, Call Bldg. \$4500

DWELLING

(1287) E PINEHURST 80 N Kenwood; one-story and basement dwelling.

Owner—Castle Bldg. Co., 830 Market.
Plans by D. E. Jaekle, Call Bldg. \$4500

DWELLING

(1288) W APTOS 160 North Ocean Avenue; one-story and basement dwelling.
Owner—Castle Bldg. Co., 830 Market.
Plans by D. E. Jaekle, Call Bldg. \$5000

DWELLING

(1289) E PINEHURST 120 N Kenwood; one-story and basement dwelling.
Owner—Castle Bldg. Co., 830 Market.
Plans by D. E. Jaekle, Call Bldg. \$5000

DWELLING

(1290) E SANTA ANA 60 N Ocean Avenue; two-story and basement dwelling.
Owner—Castle Bldg. Co., 830 Market.
Plans by D. E. Jaekle, Call Bldg. \$6090

DWELLING

(1291) E MANOR 40 N Kenwood; 1-story and basement frame dwelling.
Owner—Castle Bldg. Co., 830 Market.
Plans by D. E. Jaekle, Call Bldg. \$5000

DWELLING

(1292) SE KENWOOD and Manor; one-story and basement frame dwelling.
Owner—Castle Bldg. Co., 830 Market.
Plans by D. E. Jaekle, Call Bldg. \$5000

ALTERATIONS

(1293) 301 EDDY ST., alterations for lunch room.
Owner—A. Chickie, 301 Eddy St.
Architect—None.
Contractor—N. Psychogios, 471 Jessie St. \$3000

APARTMENTS

(1294) SW STEINER & Haight Sts.; six-story class C (22) apts.
Owner—Mrs. L. Hagmaler, 222 Fillmore St.
Architect—Bliss & Fairweather, 1001 Balboa Bldg.
Contractor—H. S. Meinberger, 343 4th Street. \$59,000

DWELLING

(1295) N ALEMANY 100 W Rosseau; one-story, basement and sub-basement frame dwelling.
Owner—Mr. and Mrs. A. Langsley, 59 Cayuga.
Architect—None. \$3000

ADDITION

(1296) DUSH ST. and Treasury Pl.; 22-story class A office building addition.
Owner—Mills Estate Co., Mills Bldg.
Architect—L. P. Hobart, Crocker Bldg. \$1,000,000

REPAIRS

(1297) 305 SAN CARLOS; repair fire damage.
Owner—W. Nelson, 156 4th St.
Contractor—C. D. De Velbiss, 369 Pine Street. \$3300

DWELLINGS

(1298) N SEMINOLE 199 W Cayuga; two 1-story and basement frame dwellings.
Owner and Builders—Stoneson Bros & Thorinson, 279 Yerba Buena.
Architect—None. each \$35

CAPITAL CITY TILE COMPANY

J. C. PALEN

Manager

914 Seventh Street

Sacramento - - - California

DWELLINGS
(1299) N SEMINOLE 174 W Cayuga;
four 1-story and basement frame
dwellings.
Owner and Builders—Stoneson Bros.
& Thorlson, 279 Yerba Buena.
Architect—None. each \$3300

DWELLING
(1300) SW 18th AVE. and Kirkham;
one-story and basement frame
dwelling.
Owner—M. D. Hardiman, 423 38th Ave.
Architect—None. \$5000

DWELLING
(1301) SW NAGLEE 27 SE Huron;
one-story and basement frame
dwelling.
Owner—P. Horgan, 915 Pierce St.
Architect—None. \$4000

ALTERATIONS
(1302) E BRYANT 150 W 4th St.;
alterations for driveway and roof.
Owner—Fair Mfg. Co., 617 Bryant St.
Engineer—Ellingson & Russell. \$1400

DWELLING
(1303) S GALVEZ 75 E Boalt; one-
story and basement frame dwell-
ing.
Owner—Chan Lam, 723 Sacramento.
Plans by C. Wong, Hotel Bell. \$2000

DWELLING
(1304) NE BROAD and Capitol Ave.;
one-story frame dwelling.
Owner—J. C. Moore, 3838 24th St.
Architect—None.
Contractor—A. H. White, 3940 25th
Street. \$2000

DWELLING
(1305) W 23rd AVE. 175 N Moraga;
one-story and basement frame
dwelling.
Owner—G. H. McCarthy, 2049 Irving
Street.
Architect—None. \$4000

ALTERATIONS
(1306) 1637 FILLMORE; alterations
to store.
Owner—National Dollar Stores, 9 29
Market St.
Architect—B. J. Joseph, 74 New Mont-
gomery St. \$3500

THEATRE
(1307) N OCEAN AVE. bet. Lake-
wood Ave. and Fairfield; one-story
class A theatre, with balcony and
tower.
Owner—San Francisco Theatres, Inc.,
Golden Gate Theatres Bldg.
Architect—R. Miller & T. L. Pfeu-
ger, 580 Market St.
Contractor—H. L. Petersen, 731 Treat
Avenue. \$190,000

DWELLING
(1308) S VICENTE 77 W 15th Ave.;
one-story and basement frame
dwelling.
Owner—J. V. Westerlund, 630 Darien
Way.
Architect—None. \$4000

ALTERATIONS
(1309) N 25th St. 185 E Castro St.;
alterations for foundations.
Owner—Mrs. C. Moran, 4179 25th St.
Architect—None.
Contractor—A. Quinn, 229 Dolores St.
\$1000

GOLF COURSE
(1310) NE MISSION and Murray Sts.;
miniature golf course.
Owner—C. E. Porter and J. B. Mont-
gomery, 234 27th St.
Architect—None. \$1500

DWELLING
(1311) S PARADISE 190 E Elk; one-
story and basement frame dwell-
ing.
Owner—G. L. Allen, 3410 Army St.
Architect—None. \$3500

DWELLING
(1312) E 15th AVE. 175 S Vicente; 1-
story and basement frame dwell-
ing.
Owner—J. Michael and C. Bommer,
762 DeHarb St.
Architect—None. \$5000

HOTEL
(1313) N PINE 77 W Stockton; 15-
story class A hotel.
Owner—Sheldrake Hotel Co., care ar-
chitect.
Architect—H. C. Baumann, 251 Kear-
ny Street. \$150,000

BUILDING CONTRACTS

San Francisco County

No.	Owner	Contractor	Amt.
208	Pacific	Capitol	5750
209	Kolsberg	Kolsberg	6000
(210)	S CALIFORNIA ST.	137-6 E	

METAL DOORS
(208) SW 15th and San Carlos, 85 on
San Carlos and 97-5 on 19th; hol-
low metal doors for extension of
Sub-Station E building.
Owner—Pacific Gas & Electric Co.,
225 Market St.
Architect—None.
Contractor—Capitol Art Metal Co.,
Inc., 1129 Howard St.
Filed Oct. 2, '30. Dated Sept. 22, '30.
Usual 35 days. TOTAL COST, \$7570
Bond, \$5750. Sureties, Pacific Indem-
nity Co. Limit, 60 days. Plans and
Spec. filed.

DWELLING
(209) S HANCOCK ST. 160 E San-
chez St.; all work on six-room
dwelling.
Owner—Fredericka Kolsberg.
Architect—None.
Contractor—Trygve Kolsberg, 141
Winfield, San Francisco.
Filed Oct. 6, '30. Dated Sept. 15, '30.
Roof on.....\$1500
Plastered.....1500
Completed.....1500
Usual 35 days TOTAL COST, \$6000
Limit, January 1, 1931.

OIL BURNER SYSTEM
(£10) SC ALIFORNIA ST. 137-6 E
Larkin St. 28 x S 137-6; boiler,
heater, oil tank and S. T. John-
son full automatic burner and fit-
tings.
Owner—O. M. Stewart, 1461 Califor-
nia Street.
Architect—None.
Contractor—Rodoni Becker Co., 455
Tenth St.
Filed Oct. 8, '30. Dated Aug. 29, '30.
Rough in material delivered.....\$151
Monthly payments of.....\$65.96
TOTAL COST, \$1734

COMPLETION NOTICES

San Francisco County

Recorded	Accepted
Oct. 2, 1930—LOT 30 BLK E, map Sub Columbia Heights Tract, D B and L Smith to whom it may con- cern.....October 2, 1930	
Oct. 2, 1930—N 28th S3 E Noe E 26 x N 114. J A and F G Thews to C Lindberg.....September 26, 1930	
Oct. 2, 1930—E BUENA VISTA Ter- race 228-34 S Duboce Ave E 100 x N 58. Chas Mayr to whom it may concern.....September 27, 1930	
Oct. 1, 1930—SW PACIFIC AVE & Buchanan 62-6 x 127-64. I Epp to whom it may concern.....October 1, 1930	

Oct. 1, 1930—SE O'FARRELL and
Franklin E 92-6 x S 60 WA 81. C
S and Katie Hoffman to whom it
may concern.....September 23, 1930
Oct. 1, 1930—N 17th S1 W Ord W 28
x N 63. Arthur and Bernard
Quinn to whom it may concern.....
October 1, 1930
Oct. 1, 1930—E VERNON 225 N Ran-
dolph N 25 x E 100 Blk 25, City
Land Assn. Ray M J Greene to
whom it may concern.....
Oct. 6, 1930—S MARINA BLVD 348-
76 E Cervantes Blvd E 37-6 S 95
W 37-56 N 96-50. Robt L Gump
to whom it may concern.....
October 4, 1930

Oct. 6, 1930—LOT 17 BLK 3264 map
Blks 3260 to 3269 Balboa Terrace
Addn. A J and M A Herzog to
whom it may concern.....Oct. 6, 1930
Oct. 6, 1930—W 15th AVE 175 and
150 S Kirkham S 25 x W 120. M
D and M A Hardiman to whom it
may concern.....October 6, 1930
Oct. 6, 1930—S 18th 183-4 W Doug-
lass. A Ricconi to H Erickson.....
October 4, 1930

Oct. 6, 1930—W HAMPSHIRE 34 N
26th 28x75. F Amatore to whom
it may concern.....Oct. 4, 1930
Correction.
Oct. 6, 1930—E 23rd AVE 150 S Vi-
cente 25x120. O Swanson to whom
it may concern.....October 6, 1930
Oct. 4, 1930—NE PALOU AVE 137-6
E Lane 25x100. F Cevaloni to J
Luchini.....Oct. 2, 1930
Oct. 3, 1930—S MARKET ST from
Van Nss Ave to 12th St, 150 ft
deep. A J Stern to L Cohn.....
September 25, 1930

Oct. 3, 1930—E 22nd AVE 250 S Mor-
aga 25x100. R P and E Hobbs to
whom it may concern.....Oct. 3, 1930
Oct. 3, 1930—W 25th AVE 342-6, 372-
6, 402-6, 432-6 N Fulton St N 30
x W 120. F Anderson to whom it
may concern.....October 3, 1930
Oct. 3, 1930—LOT 180 Map Spring
Valley Hd Assn. Jesse Horn to
whom it may concern.....Oct. 3, 1930
Oct. 3, 1930—LOT 13 BLOCK 133,
Brown Est Co Sub EUGENIA M.
C T Lindsay to whom it may con-
cern.....October 3, 1930
Oct. 3, 1930—E ARGUELLO Blvd 75
N McAllister N 25 x 100. C A
Chaquette to C T Magill.....
September 29, 1930

Oct. 3, 1930—N McALLISTER 146-
104 W Baker W 25 x 137-6. C A
Chaquette to C T Magill.....
September 29, 1930
Oct. 7, 1930—E TWENTY-FIRST
Ave 50 N Lawton St. 25x85. A
Hallgren to whom it may con-
cern.....Oct. 7, 1930
Oct. 7, 1930—NO. 740, 750, 760, 770
Blk 3272 Darien Way. Thos J Sul-
livan to whom it may concern.....
Oct. 7, 1930—W WISCONSIN 300 S
Twentieth S 25xW 100. S and H
Goldstine to R F Cassidy Co.....
Sept. 30, 1930

LIENS FILED

San Francisco County

Recorded	Amount
Oct. 2, 1930—SE MISSION 160 NE Russia Ave NE 100 x SE 108. A A E Springer, \$703.85; A G Ap- persson, \$390.81, vs J Hill and A B and V B Frank.....Oct. 7, 1930	
Oct. 6, 1930—SW NEWMAN & An- dover W 69-2 1/2 x S 26 E 70-5 1/2 N 25-0 1/2. E Lombardi vs Thos J Martin & J Harder Jr.....\$113	
Oct. 6, 1930—W ANDOVER 78-1 1/2 S Newman S 26-0 1/2 W 114-2 1/2 N 26 E 112-1 1/2. E Lombardi vs Thos J Martin & J Harder Jr.....\$113	
Oct. 7, 1930—E NINTH AVENUE 125 N Noriega N 25 E 120. H Donahue vs H S and E Klingspor.....\$180	

RELEASE OF LIENS

San Francisco County

Recorded	Amount
Oct. 6, 1930—W LAGUNA HONDA Blvd 47-445 S Idora Ave S 36° 9' 32" W 96-445 N 66° 30' W 18 N 66° 41' W 20 N 8° 2' E 33-33 N 35° 41' 24" E 101-211, Pacific Sheet Metal & Furnace Co., Reliance Lbr. & Planing Mill Co., Roma Hardwood Floor Co., J J McLeod, Ole G Wendell, Detroit Steel Prod Co, F Chianello to John A and Sylvia Schafer	

BUILDING PERMITS

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
1244	Bertlin	Owner	3000
1245	Maybeck	Owner	1800
1246	Roznoski	Owner	5000
1247	Albers	Healy	10000
1248	Dashiell	Owner	3400
1249	Duncan	Duncan	2900
1250	Hudson	Owner	2000
1251	Rasmussen	Foss	1000
1252	Von Salzen	Independent	1000
1253	Barham	Barham	3250
1254	Calloway	Carlson	2500
1255	Groce	Owner	3500
1256	Reininghaus	Owner	2500
1257	Taglia	Icardi	3000
1258	Vila	Owner	3000
1259	Woolsey	Butterfield	2000
1260	Converse	Owner	5000
1261	Ellis	Jarvis	7000
1262	Monex	Owner	3500
1263	Trimlett	Owner	3500
1264	Truman	Cuthbertson	1000
1265	Johanson	Owner	6200
1266	Miller	Owner	6000
1267	Martin	Constable	1000
1268	Dienger	Owner	9000
1269	Johanson	Owner	3950
1270	Lapham	Owner	4200
1271	Mercantile	Jackson	1500
1272	City	Owner	2000
1273	Bogart	Owner	8500
1274	Massone	Peters	10000

RESIDENCE

(1244) NO. 1637 CHESTNUT ST., BERKELEY. One-story 6-room 1-family frame residence. Owner—E. F. Bertlin, 2364 San Pablo Ave., Berkeley. Architect—None. \$3000

ALTERATIONS

(1245) NO. 1471 LA LOMA AVE., BERKELEY. Alterations. Owner—Annie W. Maybeck, 2711 Buena Vista Way, Berkeley. Architect—None. \$1300

RESIDENCE

(1246) NO. 418 SUPERIOR AVE., SAN LEANDRO. Two-story 7-room frame and stucco residence. Owner—S. Roznoski, 709 Hollywood Blvd., San Leandro. Architect—S. Hood, Broadmore Park, San Leandro. \$5000

REPAIRS

(1247) FOOT OF SEVENTH Street, OAKLAND; repairs to dock. Owner—Albers Bros. Milling Co., foot of 7th St., Oakland. Architect—None. Contractor—Healy-Tibbitts Const. Co., 64 Pine St., San Francisco. \$10,000

DWELLING

(1248) W MOUNTAIN BLVD 150 N Redwood Road, OAKLAND; one-story 5-room dwelling. Owner and Builder—E. L. Dashiell, 3549 Calafia Ave., Oakland. Architect—None. \$3400

DWELLING

(1249) E 80th AVE. 111 N Idlewood St., OAKLAND; one-story 5-room dwelling. Owner—Geo. Duncan and Polka Wallin, 2323 78th Ave., Oakland. Architect—None. Contractor—Duncan and Wallin, 2523 78th Ave., Oakland. \$2900

REPAIRS

(1250) 953 EIGHTH ST., OAKLAND; fire repairs. Owner and Builder—Luther M. Hudson, 953 8th St., Oakland. Architect—None. \$2000

WALL

(1251) SE COR. FOURTH AVE. and E 18th St., OAKLAND; retaining wall. Owner—Rasmussen, Foss & Foss, 1338 E 12th St., Oakland. Architect—None. Contractor—Leonard R. Foss, 1338 E 12th St., Oakland. \$1000

SERVICE STATION

(1252) NW COR. E 14th St. and 17th Ave., OAKLAND; one-story steel service station and one-story steel comfort station. Owner—J. Von Salezn, 2245 10th Ave., Oakland. Architect—None. Contractor—Independent Iron Works, 1824 Chase St., Oakland. \$1000

DWELLING

(1253) 823 TALBOT AVE., ALBANY; five-room dwelling. Owner—C. L. Barham, American B'nk Bldg., Oakland. Architect—A. W. Smith, American Bank Bldg., Oakland. Contractor—Barham Company, American Bank Bldg., Oakland. \$3250

BUILDING

(1254) 943 MADISON ST., ALBANY; five-room stucco building. Owner—F. A. Calloway, Talbot Ave., Berkeley. Architect—None. Contractor—G. E. Carlson, 917 Madison St., Albany. \$2500

DWELLING

(1255) 1433 WASHINGTON Avenue, ALBANY; five-room dwelling. Owner and Contractor—P. C. Groce, 708 Pierce St., Albany. Plans by Owner. \$3500

DWELLING

(1256) 736 SANTA FE AVE., ALBANY; five-room dwelling. Owner and Builder—B. Reininghaus, 2717 Channing Way, Berkeley. Architect—None. \$2500

DWELLING

(1257) 844 MADISON ST., ALBANY; four-room dwelling. Owner—J. Taglia, 918 Jackson Street, Albany. Architect—None. Contractor—A. Icardi, 972 Aileen St., Oakland. \$3000

DWELLING

(1258) 621 CURTIS ST., ALBANY; five-room dwelling. Owner and Builder—Joe Vila, 1207 Solano Ave., Albany. Plans by Owner. \$3000

ALTERATIONS

(1259) 2061 ALLSTON WAY, BERKELEY; alterations to garage. Owner—W. E. Woolsey, 52 Oakvale Ave., Berkeley. Architect—None. Contractor—F. P. Butterfield, 248 S Shattuck Ave., Berkeley. \$2000

RESIDENCE

(1260) NO. 422 MICHIGAN AVE., BERKELEY. One-story 6-room 1-family frame residence.

Owner—E. R. Converse, 1093 53rd St., Oakland. Architect—None. \$5000

DWELLING

(1261) W FAIRWAY AVE. 85 N Twin Oaks Way, OAKLAND; two-story 9-room dwelling and 1-story garage. Owner—C. Ellis. Architect—Ray Keefer, 3281 Lakeshore Ave., Oakland. Contractor—Ernest R. Jarvis, 1586 Vista St., Oakland. \$7000

DWELLING

(1262) 1878 CLEMENS RD., OAKLAND; one-story 5-room dwelling. Owner and Builder—A. H. Monex, 4350 Bridgeview Drive, Oakland. Architect—None. \$3500

DWELLING

(1263) 2221 50th AVE., OAKLAND; one-story 5-room dwelling. Owner—Robert Trimlett, 4340 Fleming Ave., Oakland. Architect—None. \$3500

REPAIRS

(1264) SW COR. 30th AND TELEGRAPH AVE., OAKLAND; repairs. Owner—Chas. H. J. Truman, 30th & Telegraph Ave., Oakland. Architect—Bing & Olson 1755 Broadway, Oakland. Contractor—Thos. H. Cuthbertson, 430 Noriega St., San Francisco. \$1000

DWELLINGS

(1265) 2836-42 73rd AVENUE, OAKLAND; two 1-story 5-room dwellings and 1-story garage. Owner and Builder—K. A. Johanson, 2832 76th Ave., Oakland. Architect—None. \$6200

ALTERATIONS

(1266) 2372 E 14th ST., OAKLAND; alterations. Owner and Builder—Grant D. Miller, 2372 E 14th St., Oakland. Architect—None. \$6000

REPAIRS

(1267) 1018 FILBERT Street, OAKLAND; fire repairs. Owner—Mrs. F. Martin, 1223 Linden St., Oakland. Architect—None. Contractor—W. C. Constable, 2526 Myrtle St., Oakland. \$1000

DWELLING

(1268) NW COR. FAIR WAY AND Twin Oaks Way, OAKLAND; 2-story 10-room dwelling and one-story garage. Owner and Builder—Theo. R. Dienger, 1201 Hampel St., Oakland. Architect—W. W. Dixon, 1844 Fifth Ave., Oakland. \$9000

DWELLING

(1269) 2850 73rd AVE., OAKLAND; one-story 5-room dwelling. Owner and Builder—K. A. Johanson, 2832 76th Ave., Oakland. Architect—None. \$3950

DWELLING

(1270) 130 CHERRYWOOD, SAN LEANDRO; 6-room frame and stucco dwelling. Owner—F. E. Lapham. Plans by Irwin M. Johnson, Thayer Bldg., Oakland. Contractor—T. H. Lapham, 546 Kenmore Ave., Oakland. \$4200

REPAIRS

(1271) GORE 14th St. Proadway and San Pablo Ave., OAKLAND; sidewalk light repairs. Owner—Mercantile American Realty Co., 464 California St., San Francisco. Architect—None. Contractor—P. H. Jackson & Co., 415 Bryant St., San Francisco.

ALTERATIONS
(1272) ROOM B, City Hall, OAK-
LAND; alterations.
Owner and Builder—City of Oakland.
Architect—None. \$2000

DWELLING
(1273) E DOWNNEY PLACE 50 S Sun-
nyhills Road, OAKLAND; 2-story
7-room dwelling.
Owner—H. Eogart, 362 Vernon Street,
Oakland.
Architect—None.
Contractor—W. K. Owen, 3145 Pleit-
ner St., Oakland. \$5500

GARAGE
(1274) 1723 FRUITVALE AVE. OAK-
LAND; one-story brick garage.
Owner—G. B. Massone, 1723 Fruit-
vale Ave., Oakland.
Architect—None.
Contractor—F. W. Peters, 30 Grand
Ave., Oakland. \$10,000

BUILDING CONTRACTS

ALAMEDA COUNTY

Contractor	No. Owner	Contract
165 Salem	Westlund	79294
116 Associated	Lyons	7313
117 Roman	Donnelly	3451
118 Reynolds	Webb	1655
119 Kaiser	Western	19100

HOME FOR AGED
(165) S E-TWENTY-NINTH ST. E
Twenty-third Ave., Oakland. Gen-
eral construction for two-story
Class C building (Home for the
Aged).

Owner—Salem Lutheran Home Assn.
of the Bay Cities, Inc.
Architect—Henry H. Gutterson, 526
Powell St., San Francisco.
Contractor—Fred J. Westlund, 625
40th St., Oakland.
Filed Oct. 3, '30. Dated Sept. 24, '30.
2nd floor joists in place.....\$19,823.50
Brown coated.....19,823.50
When completed.....19,823.50
Usual 35 days.....19,823.50
TOTAL COST, \$79,294.00
Bond, \$79,294. Surety, FidelKy & De-
posit Co. Limit, 150 days. Forfeit,
none. Plans and specifications filed.

SERVICE STATION
(116) SE LAKESHORE BLVD. AND
Trestle Glen Ave., Oakland. Gen-
eral construction on gasoline ser-
vice station.
Owner—Associated Oil Company.
Architect—Masten & Hurd.
Contractor—W. E. Lyons, 354 Hobart
St., Oakland.
Filed Oct. 4, '30. Dated Sept. 27, '30.
Ten days after completion.....75%
Usual 35 days.....25%
TOTAL COST, \$7313
Bond, \$7300. Sureties, Fidelity and
Deposit Co. of Maryland. Limit, Oct.
25, 1930. Plans and Spec. filed.

PARISH HOUSE & HALL
(117) NW PARK BLVD. and Saint
James Drive, Piedmont; general
construction on 2-story frame and
stucco parish house and hall with
garage.
Owner—The Roman Catholic Arch-
bishop of San Francisco, 1100
Franklin St., San Francisco.
Architect—Wm. E. Schirmer, 700 21st
St., Oakland.
Contractor—P. H. Donnelly, 3957 Oak-
more Road, Oakland.
Filed Oct. 7, '30. Dated Sept. 26, '30.
When brown coated.....\$194.13
Until plastered.....1294.12
Usual 35 days.....862.75
TOTAL COST, \$3451
Bond, \$3451. Sureties, Aetna Casual-
ty & Surety Co. Limit, 70 days. Plans
and Spec. filed.

STORE
(118) LOT 10 BLK B-1042, map of
Dimond, Oakland; general con-
struction on one-story store and
work room.
Owner—W. P. Reynolds, 3256 Hyde
St., Oakland.
Architect—None.
Contractor—Webb & Whalin, Oakland
Filed Oct. 7, '30. Dated Sept. 10, '30.
When ready for plaster.....\$300
When completed.....300
11th of each month.....50
TOTAL COST, \$655
Limit, 30 days. Plans and Spec. filed.

STRUCTURAL STEEL
(119) INTER of San Ramon Branch
of the S. P. R. R. with the West-
ern Pacific R. R. (Rodriguez Junc-
tion); fabrication and delivery of
structural steel work for gravel
washing, screening and loading
plant.
Owner—Kaiser Paving Co., Latham
Square Bldg., Oakland.
Architect—L. H. Nishikan, Under-
wood Bldg., San Francisco.
Contractor—Western Iron Works, 141
Beale St., San Francisco.
Filed Oct. 8, '30. Dated Sept. 25, '30.
Fifth and 20th of each mo.....75%
Usual 35 days.....Balance
TOTAL, \$19,100
Bond, \$19,100. Sureties, New Am-
sterdam Casualty Co. Limit, 50 days.
Plans and Spec. filed.

COMPLETION NOTICES

ALAMEDA COUNTY

Recorded	Accepted
Oct. 7, 1930—1730 FRANKLIN ST., Oakland. Gorrill Estate Company to L R McWethy.....October 1, 1930	
Oct. 7, 1930—SW EAST AVE and E 14th St., San Leandro. Gorrill Estate Co to L R McWethy..... September 22, 1930	
Oct. 6, 1930—3475 MARGARITA AVE Oakland. M Willkomm to Alfred Peterson.....September 10, 1930	
Oct. 6, 1930—S DAVIS ST 57 ft W of Washington Ave, San Leandro; Hattie Fisel, Emma and Sylvain Godchaux to Chas D Vezey and Sons.....September 27, 1930	
Oct. 6, 1930—1127-29 DARTMOUTH St, Albany. Gaetana D Gaeta to whom it may concern.....Oct 6, 1930	
Oct. 3, 1930—STATE HIGHWAY bet Dublin and Hayward. Dept of Public Works, Div of Highways. State of California to Rufus Gon- salves.....September 29, 1930	
Oct. 3, 1930—LOT 16 BLK F. Du- rant Manor, Oakland. Wm J and Adelia A Johnson to whom it may concern.....September 23, 1930	
Oct. 3, 1930—3079 E 14th St, Oak- land. Derby Estate Co to whom it may concern.....October 1, 1930	
Oct. 2, 1930—PTN LOTS 10 and 13, The Ghirardelli Tract, Oakland. Mary Jensen to N B Anderson..... September 30, 1930	
Oct. 2, 1930—2186 47th AVE, Oak- land. Ernst and Mrs M Blumel to Sullivan and Sullivan..... September 30, 1930	

Recorded	Accepted
Oct. 1, 1930—49 SIERRA AVENUE, Piedmont. Benjamin W and Jean Black to C M Anderson..... September 30, 1930	
Oct. 1, 1930—PTN LOT 11, Oak Pk Tract, Oakland. Nettie D Rleser to H L Spurr.....Sept. 30, 1930	
Oct. 1, 1930—705 CRAGMONT AVE, Berkeley. Dorothy S Smith to B Reinlinghaus.....September 29, 1930	
Oct. 1, 1930—LOTS 7, 8 and 9 and ptn Lot 6 Blk E, Revised map of Pleasanton. First Presbyterian Church of Pleasanton to Bruce & Sons.....September 21, 1930	
Oct. 1, 1930—PTN LOT 54 BLK 14, Amended map of Sunset Terrace, Albany. Wm K McInnes to whom it may concern.....Sept. 27, 1930	

Oct. 1, 1930—STATE HIGHWAY be-
tween Hayward and Niles. Dept
of Public Wks, Division of High-
ways. State of California to Frank
Perez.....September 26, 1930

LIENS FILED

ALAMEDA COUNTY

Recorded	Amount
Oct. 1, 1930—PTN OF PPTY desc in ctn deed from Peter L Kryger et al to Isaac B Parsons et al dated Oct 7, 1902 and recorded in Vol 556 of deeds page 253, Eden Twp. Melrose Lumber & Supply Co vs Morris and Carrie Johnson and W Swansick.....\$153.65	
Oct. 1, 1930—541 MERRITT AVE, Oakland. F and J Iron Works vs H Buckland.....\$53	
Oct. 1, 1930—NE OAK KNOLL Blvd and Sequoia, Oakland. Zarwell Electric Co vs J A Minnis, Jer- rold McPerson.....\$139	
Oct. 1, 1930—LOT 5 BLK N, Ex- celsior Heights, Oakland. Atlas Mill & Lumber Co, \$1151.80; Har- pens Sheet Metal Works, \$140, vs R and Margaret E Boydston and J Berovich.....\$139	
Oct. 2, 1930—935 HILLCROFT Cir- cle, Oakland. T P Hogan Co vs C R Squires.....\$498.45	
Oct. 7, 1930—PTN OF CTN 15-1 pt in land deeded by Edwin & Liza Ellsworth to the Calif Pressed Brick Co May 15, 1907 and record- ed in Vol 1345 page 287. Melrose Lumber & Supply Co vs Western Clay Products Co and California Pottery of California.....\$11,332.98 and interest.....\$549.90	
Oct. 7, 1930—PTN LOT 20 BLK D, Ansapacher Tract, Hayward. F W Knipscher as F W Kay Co, \$213- 62; Henry Black and H Gustaf- son as Black & Gustafson, \$329, vs F E, M Bernice and C O Ellin- coe.....\$5,693.19	
Oct. 6, 1930—LOT 5 BLK N Exel- sior Heights, Oakland. W H Pic- ard, Inc vs R A and M Boyston, J A and M E Berovich.....\$5,693.19	

RELEASE OF LIENS

ALAMEDA COUNTY

Oct. 3, 1930—LOTS 10, 11 and 13 and
ptn Lots 9, 12 and 14 Blk 144, Kel-
lersberger's map of Oakland. K C
Shurick to Retail Center Garage.
Ltd, Barrett & Hllp.....\$3000
Oct. 1, 1930—W MCGEE AVE 100
ft N of Addison St, Berkeley. Chi-
cago Lumber Co of Washington
to Beulah and F H Feit.....\$176.11

BUILDING CONTRACTS

SAN MATEO COUNTY

GRADING
SOUTH SAN FRANCISCO. Grading
for construction of industrial
tracks.
Owner—Southern Pacific Co., 65 Mar-
ket St., San Francisco.
Architect—None.
Contractor—Granfield, Farrar & Car-
lin 67 Hoff St., San Francisco.
Filed Sept. 29, '30. Dated.....
As work progresses.....75%
2nd payment.....25%
Bond, \$7770. Surety, United States
Guaranty Co. Limit, 30 calendar days
Forfeit, none. Plans and specifica-
tions filed.

RESIDENCE
PARCEL 5 of Mary B. Josselyn Estate
San Mateo. All work for one-
story frame and stucco residence
and attached garage.

Owner—Marjorie Josselyn, Woodside.
Architect—Gardner A. Dailey, 425
Mason St., San Francisco.
Contractor—Meese & Briggs, 1425
Broadway, Burlingame.
Filed Oct. 12, '30. Dated Sept. 4, '30.
Roof sheeted.....\$1600
Plastered.....1600
Completed.....1600
Usual 35 days.....1639
TOTAL COST, \$6499
Bond, none. Limit, 60 working days.
Forfeit, none. Plans and specifications
filed.

ADDITIONS
PART LOT 2, Burlingame Heights,
Burlingame. All work for ad-
ditions and alterations to bunga-
low.
Owner—William L. Weitz, Premises
Architect—None.
Contractor—Wallace Waterhouse, 718
N. El Camino Deal, San Mateo.
Filed Oct. 1, '30. Dated Oct. 18, '30.
As per agreement.....
TOTAL COST, \$6000
Bond, limit, forfeit, plans and specifi-
cations, none.

ALTERATIONS
PART BLK 16, Burlingame. All work
for alterations and repairs to one-
story concrete show rooms, etc.
Owner—Pacific Greyhound Lines, Inc.,
9 Main St., San Francisco.
Architect—Owner.
Contractor—Charles J. Dawe, Ber-
keley.
Filed Oct. 2, '30. Dated Sept. 26, '30.
As work progresses.....75%
Usual 35 days.....25%
TOTAL COST, \$20,693
Bond, \$—, Sureties, Bertha E. Rice
and Frances W. Gump. Limit, Dec
14, 1930. Forfeit, none. Plans and
specifications filed.

LAUNDRY
PART LOTS 16 AND 17 BLK 6, Polo
Field, Burlingame. All work for
one-story stucco store and laundry
building.
Owner—Edmund Bourne, 1211 Burlin-
gume Ave., Burlingame.
Architect—Grimes & Schoening, 235
3rd Ave., San Mateo.
Contractor—G. W. Williams Co., 2807
Adeline St., Burlingame.
Filed Sept. 25, '30. Dated Sept. 24, '30.
Exterior concrete plastered.....\$126.25
Frame completed.....2126.25
Completed.....2126.25
Usual 35 days.....2126.00
TOTAL COST, \$3505.00
Bond, none. Limit, 60 working days.
Forfeit, \$8. Plans and specifications
filed.

STORE BLDG.
S THIRD AVE 50 W San Mateo Drive,
San Mateo. All work for one-story
reinforced concrete store building
Owner—Martin Stelling Jr., et al, 155
Montgomery St., San Francisco.
Architect—Bertz, Winter & Maury,
210 Post St., San Francisco.
Contractor—Clinton-Stephenson Con-
struction Co., Ltd., Monadnock
Bldg., San Francisco.
Filed Sept. 30, '30. Dated Sept. 12, '30
As work progresses.....75%
Usual 35 days.....25%
TOTAL COST, \$8929
Bond, \$464.50. Surety, Commercial
Casualty Co. Limit, 55 working days.
Forfeit, none. Plans and specifications
filed.

COMPLETION NOTICES
SAN MATEO COUNTY

Recorded Accepted
April 22, 1930—LOTS 29 and 30 Blk
1, San Bruno. John Schyf to
whom it may concern.....Sept. 20, 1930

Sept. 22, 1930—LOTS 17 and 18 Blk
7 Central Park. L F Borquin to
whom it may concern.....
September 20, 1930
Sept. 24, 1930—LOT 11 and part Lot
12 Brewer Property. Dean S Ar-
nold et al to Bert Norberg.....
September 1, 1930
Sept. 25, 1930—LOT 9 BLK 28, Mil-
brae Highlands. Elias Vigen to
whom it may concern.....
September 20, 1930
Sept. 25, 1930—LOT 17 BLK M, San
Bruno. A J Dalton to whom it
may concern.....Sept. 20, 1930
Sept. 26, 1930—LOT 37 BLOCK 12,
Woodside Glens. Alexander Beck-
man to whom it may concern.....
September 25, 1930
Sept. 27, 1930—LOT 1 BLK 35, Red-
wood Highlands. T S Karp to
whom it may concern.....
September 27, 1930
Sept. 28, 1930—LOT 21 BLK 9, Bur-
lingame Terrace. Mary Leontieff
et al to whom it may concern.....
September 26, 1930
Sept. 29, 1930—LOT 1 BLK 5, Vista
Grande. Florence E Clark to
whom it may concern.....
September 26, 1930
Sept. 30, 1930—LOT 10 BLK 2, Dun-
can Park. Iva V Reynolds to whom
it may concern.....Sept. 22, 1930
Sept. 30, 1930—LOT 6 BLK 1, Con-
cordia Homestead. Joseph Peras-
so to whom it may concern.....
September 30, 1930
Sept. 30, 1930—PART LOT 25, Hills-
borough Park. Eugene Kaufman
et al to C H Bessett Bldg Co.....
September 23, 1930
Oct. 1, 1930—LOT 5 BLK 51, How-
ard Addn. Natalie Pedretti to F
Perrea.....September 30, 1930
Oct. 1, 1930—LOTS 5 to 9 inc BLK
1 Fenton Ppty. Lawrence H Clark
to W F Klay.....September 30, 1930
Oct. 1, 1930—LOT 10 PT LOT 13,
Lomita Park. Irvin C Bershaw et
al to whom it may concern.....
October 26, 1930
Oct. 1, 1930—LOT 255, San Mateo
Park. W A Johnson Jr to Oscar
L Cavanaugh.....
October 26, 1930
Oct. 2, 1930—LOT 10A BLOCK 26,
Howard Ave, Burlingame. Louis
T Clansing et al to H H MacDon-
ald.....October 1, 1930

LIENS FILED
SAN MATEO COUNTY

Recorded Amount
Sept. 29, 1930—PART LOT 1 BLK
24, Palo Alto Park. Merner Lbr
Co vs Blayer H Hill et al.....\$266.49
Sept. 29, 1930—LOTS 1, 2 and 12 Blk
1, Duncan Park. H M McQuilkin
vs L A Booker et al.....\$250
Sept. 30, 1930—LOTS 14 and 15 BLK
2, Bayview Heights. E J Coak-
sey vs Martin Peterson.....\$2165
Sept. 26, 1930—LOT 1 BLK 1, Dun-
can Park. Sudden Lbr Co vs La-
verne A Booker et al.....\$107.29
Sept. 23, 1930—LOT 2 BLK 1, Dun-
can Park. San Carlos Feed & Fuel
Co, \$208.61 and \$187; Tanner Tile
Co, (2 liens each) \$130, vs La-
verne A Booker et al.....
Oct. 1, 1930—PART LOT 6, Eagle
Hill Villa Tract. E A Mueller vs
H W Haughan, et al.....\$38.75

Oct. 2, 1930—LOTS 43, 44 and 45 Blk
1, San Bruno. Granada Tile Co
vs Jessie D Gaudian.....\$50
Sept. 27, 1930—LOTS 35 and 36 Blk
38, Central Park, Redwood City.
Merner Lumber Co vs Sig J Olofs-
son et al (two liens) \$39.25, \$247.10
Sept. 27, 1930—LOTS 1 to 7 inc Blk
2, University Heights. Merner Lbr
Co vs J E Sevey et al.....\$64
Sept. 26, 1930—LOT 27 BLK 4, Vista
Grande. A Milano vs Harry Mc-
Donald.....\$90.50
Aug. 23, 1930—LOT 5 and part Lot
6, Eagle Hills Sub. Granada Tile
Co alias vs H W Haughan.....\$100

RELEASE OF LIENS
SAN MATEO COUNTY

Recorded Amount
Sept. 26, 1930—LOCATION OMIT-
TED. Montague Furnace Co to
P G Schmidt.....\$10

BUILDING PERMITS
REDWOOD CITY

DWELLING, 2-story and garage,
\$7000; No. 634 Brewster Ave., Red-
wood City; owner, E. H. Rodgers;
contractor, Gus Waller, 221 Hud-
son St., Redwood City.
WAREHOUSE, garage and service
buildings, \$35,000; No. 102 Rogers
St., Redwood; owner, Pacific Gas
& Electric Co., 2120 Broadway,
Redwood City.
DWELLING frame, \$3750; No. 472
Hudson St., Redwood St.; owner,
and builder, V. L. Jean.
DWELLING and garage, frame, \$4000
No. 166 Grand St., Redwood City;
owner, V. J. Chiappelleno; con-
tractor, C. S. Baker, 611 S-Frem-
ont St., San Mateo.
OFFICE building and storeroom, one-
story tile, \$10,000; No. 1601 El
Camino Real, Redwood City; own-
er, Sudden Lumber Co., Highway
and Broadway, Redwood City;
contractor, H. R. Blair Jr., Ran-
dall St., Atherton.
STORE and post office, one-story rein-
forced concrete, \$16,000; No. 203-
209 Webster St., Redwood City;
owner, General Properties Co.;
contractor, Wells P. Goodenough,
Theatre St., Redwood City.

BUILDING PERMITS
BURLINGAME

RESIDENCE, \$9000; Lot 5 Blk 71,
Hillside; owner and builder, E. S.
Shaver, 2600 Easton, Burlingame.
STORES and cleaning plant, \$5000;
part lots 16 and 17 Blk 6, Howard.
owner, Edw. Baume, 1221 How-
ard St., Burlingame; contractor,
G. W. Williams, 1401 Broadway,
Burlingame.
ADD two apartments, \$5000; Billy Hgts
and El Camino Real; owner, W. L.
and Eliza Neitz, contractor, Wal-
lace Waterhouse, 718 N El Ca-
mino Real, Burlingame.
ALTER building for show room, \$18,-
000; NE corner California and

Member Insurance Brokers' Exchange

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San Francisco

Howard; owner Pacific Greyhound Lines, Inc., 9 Main St., San Francisco; contractor, Chas. Darve.

BUILDING PERMITS

SAN JOSE

ADDITION to ice plant, \$20,000; San Fernando near Sunol; owner, Union Ice Co., 804 W San Fernando, San Jose.
RESIDENCE, 5-room, \$3500; 31st nr. McKee Rd.; owner, Anthony Jangrus, 725 N 12th St., San Jose; contractor, V. Sunzeri, 180 N 31st St., San Jose.
RESIDENCE, 6-room, \$3000; 31st nr. McKee Rd.; owner, Pietro Plane, N 31st St.; contractor, J. P. Henry & Sons, 192 N 21st St., San Jose.
RESIDENCE, 5-room, \$3000; 31st nr. Mt. Hamilton View; owner and builder, Vincent Sunzeri, 180 N 31st, San Jose.

BUILDING PERMITS

PALO ALTO

RESIDENCE, stucco, \$6000; No. 1160 Fulton St., Palo Alto; owner, A. Aro, 1143 Webster St., Palo Alto; contractor, Aro & Okeman, 1125 High St., Palo Alto.
RESIDENCE, stucco, \$9500; No. 1801 Fulton St., Palo Alto; owner, E. M. Brickey, 124 Dana St., Palo Alto.
RESIDENCE, stucco, \$3000; No. 810 College Ave., Palo Alto; owner, C. G. Hambough; contractor, Joseph L. Mesa, 730 College Ave., Palo Alto.
ALTER Class C building, \$2000; No. 417 University Ave., Palo Alto; owner, Annie F. Plymire, 1341 University Ave., Palo Alto; contractor, H. Mirada.

COMPLETION NOTICES

SANTA CLARA COUNTY

Recorded	Accepted
Sept. 27, 1930—NO. 650 SAN JUAN St., Stanford University, Palo Alto. Delta Tan Delta Constr & Investment Co to whom it may concern.....	Sept. 23, 1930
Sept. 27, 1930—LOT 45, Colonial Manor, San Jose. William H O'Neil to whom it may concern.....	Sept. 27, 1930
Sept. 27, 1930—LOT 6 BLK 12, Los Altos No. 1. Mary Sundstrom to whom it may concern.....	Sept. 19, 1930
Sept. 27, 1930—LOT 37 Barron Park, San Jose. Helen Willaume to whom it may concern.....	Sept. 25, '30
Sept. 27, 1930—S CHURCH ST. 435 W Calderon Ave., Mt. View Wm McCall to whom it may concern.....	Sept. 29, 1930
Sept. 27, 1930—PART LOTS 7 AND 9, Margarita Tract, San Jose. John H Merguire to whom it may concern.....	Sept. 20, 1930
Sept. 30, 1930—LOTS 17, 18, 19, 20, 21 and 22 Elk 25, College Terrace, Palo Alto. C A Davidson to whom it may concern.....	Sept. 29, 1930
Sept. 30, 1930—LOT 27 BLK 124, Crescent Park No. 3, Palo Alto. Allan S and Mildred Vishoot to whom it may concern.....	Sept. 29, 1930
Oct. 1, 1930—SW CHAPMAN ST. 235 NW Hedding St., San Jose. Clyde Alexander to whom it may concern.....	Sept. 30, 1930
Oct. 2, 1930—NE SAN CARLOS & Locust Sts., San Jose. Martin J Haas to whom it may concern.....	Sept. 30, 1930

LIENS FILED

SANTA CLARA COUNTY

Recorded	Amount
Sept. 27, 1930—NE ALMA and N line Circle NW 50 NE 125 SE 78 3/4" S 14' 2 1/4" to Circle, th W 107' 3/4" to beg pt Blk 4, Palo Alto. Christiansen & Anderson, Inc vs Katherine and George Bralis.....	\$121.17
Sept. 27, 1930—N 1/4 E-FOURTH St. 36 W San Salvador St., San Jose. M W Reese vs Hannah Phillips.....	\$186.50
Sept. 30, 1930—59 ACRE bet. Croy and Uvas Roads also Lot 33, Morgan Hill Ranch No. 4. John F Smith vs Giles Bradley et al.....	\$649.50
Oct. 1, 1930—LOT 2 BLK C, Lincoln Gates, San Jose Ernest Jensen vs H N Traxler.....	\$225
Oct. 2, 1930—S MAIN ST. E line land of Los Gatos Mfg. Co, Town of Los Gatos. A Tonelli vs Arthur Berryman Robertson et al.....	\$212.28

RELEASE OF LIENS

SANTA CLARA COUNTY

Recorded	Amount
Oct. 1, 1930—S PARKINSON and W Cedar W on S Parkinson 50 right angle S parl Cedar 100 r a E parl S Parkinson Ave 50 to W Cedar St.; th N on Cedar St. 100 to pt of commencement, being N 100 Lot 12 Blk 2, Alba Park Addition adjoining Palo Alto. "L" of Maps Page 8. John L Ingram, \$351; Merner Lumber Co, \$58.54; C A Bloomquist, \$223.10; Glenn W Wilson, \$115.50; J H Daly, \$364.75; C E Ashworth, \$99.10; E L Schiller, \$130; Palo Alto Lumber Co, \$1420.14 to W G Bell.....	
Oct. 2, 1930—LOT 9 BLK 17, Lendrum & Brassy-Ahlens Tract, San Jose. King Russell Electric Co to A G Ogg.....	

BUILDING PERMITS

ALBANY, ALAMEDA COUNTY

Under \$1,000 in Valuation

GARAGE, 1-room addition, \$475; 343 Santa Fe Ave., Albany; owner & builder, J. C. Turner, 843 Santa Fe Ave., Albany.
ADDITION, \$450; 1037 Peralta Ave.; owner, Geo. S. Bennett, 1037 Peralta Ave., Albany; contractor, C. W. Sylvester, Walnut Creek.
PORCH, sleeping, \$25; 1048 Ellis St.; owner, Mrs. Lewis, 1048 Curtis St., Albany; contractor, H. C. Kidder, 3123 Eton Ave., Berkeley.
COURSE, miniature golf, \$300; 810 San Pablo Ave.; owner, Harry McManus, 14 Moss Ave., Oakland.
STUCCO garage, \$260; 1121 Washington Ave.; owner, L. Maggiora, 1121 Washington Ave., Albany.
GARAGE, double, \$125; 988 Peralta Ave.; owner and builder, Howard R. Tenbrook, 988 Peralta Avenue, Albany.
RE-ROOFING, \$120; 1133 Stannage Ave.; owner, Kerman, 1133 Stannage Ave., Albany; contractor, A. Hagen, 2304 Hth St., Berkeley.
RE-ROOFING, \$112; 810 Madison St.; owner, L. Varni, 810 Madison St., Albany; contractor, W. H. Verbiscia, Route 1 Box 553, Berkeley.
RE-ROOFING, \$100; 826 Adams St.; owner, C. B. Ahlgren, 826 Adams Street; contractor, W. H. Verbiscia, Route 1 Box 553, Berkeley.
REPAIRS, \$100; 945 Madison Street; owner, Calloway, 945 Madison St., Albany; contractor, Curtis Wright 2216 Telegraph Ave., Oakland.
BASEMENT and concrete foundation,

\$100; 1456 Washington Ave.; owner & builder, Leonard Holst, 1456 Washington Ave., Albany.
RE-ROOFING, \$100; 524 Stannage Ave.; owner, A. Kruger, 524 Stannage Ave., Albany.
GARAGE, \$75; 718 Santa Fe Avenue; owner and builder, J. W. Davis, 1360 Virginia St., Berkeley.
STORE ROOM, \$60; 964 Cornell Ave.; owner and builder, J. J. Clark, 964 Cornell Ave., Albany.

BUILDING CONTRACTS

CONTRA COSTA COUNTY

RESIDENCE
LOT 25 BLK C, Arlington Acres, Contra Costa County. All work for one-story frame residence.
Owner—Virginia E. Mahl.
Architect—Arthur L. Herberger, 3281 Lakeshore Blvd., Oakland.
Contractor—Irwin H. Reimers, 745 Walla Vista Ave., Oakland.
Filed Oct. 3, '30. Dated July 7, '30.
Floor joists laid.....\$2900
Roof sheathed.....2900
Brown coat plaster on.....2900
Building completed.....2900
TOTAL COST, \$14,500
Bond, limit, forfeit none. Plans and specifications filed.
OFFICE BLDG.
LOT 4 BLK 323, Martinez. All work for one-story brick office building for California Water Service Co.
Owner—R. E. Claeys, Howard St., Martinez.
Architect—None.
Contractor—W. Snelgrove, 1134 Ferry St., Martinez.
Filed Oct. 1, '30. Dated Sept. 30, '30.
Brick walls one story high.....\$1400
Brown coat plaster completed.....1400
Building completed.....1400
Usual 35 days.....1400
TOTAL COST, \$5600
Bond, \$5600. Surety Maryland Casualty Co. Limit, forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded	Accepted
Oct. 6, 1930—LOT 5 BLK 3, Shell Heights, Martinez. J. W. Webber to Peter Lyhne.....	October 3, 1930
Sept. 30, 1930—LOTS 311 AND 313 No. 2 Haciendas del Orinda. J. W. Dieterich to whom it may concern.....	Sept. 26, 1930
Oct. 1, 1930—CONCORD, California Water Service Co to Hutchinson Constr Co (pipe line).....	Oct. 1, 1930
Oct. 3, 1930—PORTION OF SE 1/4 of Section 14 Tns 2 North Range 1 West, Clinton M Brown to whom it may concern.....	Sept. 30, 1930

LIENS FILED

CONTRA COSTA COUNTY

Recorded	Amount
Oct. 1, 1930—LOTS 19 AND 20 BLK 25, Richmond Junction Heights. E H Higgins Co vs Tony Regollo.....	\$59.13
Oct. 6, 1930—PTN LOT 15 BLK A, No. 3 Portion of Parkside Addn and Racetrack Sub, being known at Lot 5, Adams Sub. E K Wood Lumber Co vs Robert L Hill.....	\$241.39
Oct. 6, 1930—PTN LOT 15 BLK A No. 3 Ptn of Parkside Addn and Racetrack Sub, being known at Lot 7, Adams Subdivision. E K Wood Lumber Co vs Vada A Rose and Robert L Hill.....	\$668.41
Oct. 4, 1930—LOT 2 BLK A, Crockett. Tilden Lumber Co to Carl	

Struckman and Phillip Montesano.
Oct. 4, 1930—LOTS 7 and 8 BLK 2,
2nd Amended map of Fairview,
Chas N Wade and W D Eaby, as
Martinez Sheet Metal Works vs C
Volpi and P Castrucci.....\$47.60

LIENS FILED

MARIN COUNTY

Recorded	Amount
Sept. 24, 1930—SAUSALITO, B	
Regalia vs Alvina Kistenmacher.....	\$196
Sept. 27, 1930—SAUSALITO, N C	
Drechsler vs M Fitzgerald.....	\$135

BUILDING CONTRACTS

SONOMA COUNTY

ALTERATIONS

B ST., between 4th and 5th Sts.,
Santa Rosa. All work for alterations
and additions to concrete
hotel.
Owner—Leonard Howarth Estate,
Healdsburg Highway, Santa Rosa.
Architect—Arthur S. Bugbee, 1462
Lombard St., San Francisco.
Contractor—W. L. Proctor, 12 West
Tenth St., Santa Rosa.

COMPLETION NOTICES

SAN JOAQUIN COUNTY

Recorded	Accepted
Oct. 4, 1930—ESCALON UNION	
High School, Escalon Union High	
School District to Frank P	
Guyon.....	Sept. 29, 1930
Oct. 4, 1930—DISTRICT X, Stockton	
Dept. of Public Works, Division of	
Highways, George French Jr. to	
whom it may concern.....	Sept. 30, 1930
Oct. 3, 1930—HEADQUARTERS	
Union Island Ranch, California	
Packing Corp to Victor A Kausen-	
berg.....	Sept. 29, 1930
Oct. 6, 1930—LOT 8 BLK 2, Oxford	
Manor, Stockton. State Realty Co	
to Wm Peenstra.....	October 3, 1930
Oct. 2, 1930—PTN LOTS 2 AND 4	
Ptn Lots 13 and 14 Blk 5, East of	
Center St., Stockton. S H Kress	
& Co to T J Dewew.....	Sept. 30, 1930

LIENS FILED

SAN JOAQUIN COUNTY

Recorded	Amount
Oct. 7, 1930—E ½ LOT 8; all lot 10	
and E 75 ft of W 100 ft of each of	
lots 15 and 16, blk 12, E of Center	
St. The E 50 ft of lot 16 blk 12	
12, E of Center St, except N 1	
8 1/2 ft and S 3 ft thereof. Ptns of	
lots 15 and 16 blk 12, E of Center	
St, E 7 ft of lot 7 and all lot 9 blk	
12, E of Center St; except E 7 in	
of N 90 ft of said lot 9; also ex-	
cept N 4 ft and 3 in thereof, as	
conveyed to City of Stockton for	
additional sidewalk space. W ½	
lot 8; W ½ of W ½ of lot 15, and	
W ½ of W ½ of lot 16, all in blk	
12 E of Center St. Turner Hdwe	
& Implement Co vs Henry I Peller	
and Henry I Beller as Henry I	
Beller Const Co, Eugene L Wil-	
hoit, Arthur Wilhoit, Mary Wil-	
hoit, Hodgkins and Elsie Wilhoit	
Hodgkins and Fox West Coast	
Theatres.....	\$3710.72

BUILDING CONTRACTS

MONTEREY COUNTY

SCHOOL
District and land owned by said
district near Camp Steffani, Car-
mel Valley; general construction
for a school building.

Owner—Tulareitos Union School Dist.,
Carmel Valley.
Architect—W. O. Raiguel, Del Monte.
Contractor—Miles Bain, Carmel-by-
the-Sea.

Filed Oct. 4 '30. Dated Sept. 23, '30.
Progress payments.....75%
Usual 35 days.....25%
TOTAL COST, \$5,450
Plans and Spec. filed.

COMPLETION NOTICES

MONTEREY COUNTY

Recorded	Accepted
Oct. 1, 1930—SW COUNTY ROAD	
leading from Salinas to Odd Fel-	
lows' Cemetery known as Abbott	
St, Salinas. G Benardello to J S	
Boyd.....	Sept. 30, 1930
Oct. 1, 1930—LOT 4, Maple Park	
Addition No. 1, Monterey. Roscoe	
E Keltner to whom it may con-	
cern.....	Sept. 26, 1930
Oct. 1, 1930—KING CITY UNION	
Grammar School. Trustees of	
King City Union Grammar School	
to The Minton Co.....	Sept. 27, 1930
Oct. 3, 1930—LOT 5 of Parcel 8, Ro-	
me Lane Subdivision, Monterey.	
R L Tolle to whom it may con-	
cern.....	Oct. 1, 1930
Filed Oct. 2, '30. Dated Sept. 29, '30.	
Rough concrete and roof on.....	\$6671.25
Finish plaster in place.....	6671.25
Completed and accepted.....	6671.25
Usual 35 days.....	6671.25
TOTAL COST, \$26,685.00	
Bond, \$26,685. Surety, Fidelity &	
Casualty Co. of New York. Limit, 90	
days. Forfeit, none. Plans and	
specifications filed.	
Oct. 4, 1930—PART LOT 14 BLK	
15-5, Homestead Addn, Salinas	
City. Ralph and Julia K Marcus	
to Hurst & Fregula.....	Oct. 3, 1930
Oct. 4, 1930—LOT 15 BLK 5, map	
No 2, Del Monte Heights, Mont-	
erey County. C F Houston to W	
M Roach.....	October 3, 1930

LIENS FILED

MONTEREY COUNTY

Recorded	Amount
Oct. 3, 1930—LOTS A AND B BLK	
2½, Map of Salinas City. Charles	
A Langlais vs Leona and W Web-	
bling.....	\$420

RELEASE OF LIENS

MONTEREY COUNTY

Recorded	Amount
Oct. 6, 1930—LOT 3 BLK 21, Springs	
2nd Addn, Salinas City. Tynan	
Lumber Co \$207.16; Anderson	
Dougherty-Hargis Co, \$550.95; C	
R Hoosier, \$133.71; C A Lewis,	
\$153, to Cleon A and Florence Mc-	
Lennon Tynan.....	

BUILDING PERMITS

STOCKTON

REMODEL, \$1800; 157 W Adams St.;
owner, Stockton City Laundry, 157
W Adams St, Stockton.
RESIDENCE and garage, \$8000; 3402
N Pacific Ave.; owner, J. Catafor;
contractor, Randolph & West, 405
E Poplar St., Stockton.

BUILDING PERMITS

MARTINEZ

OFFICE, brick bldg., \$6000; Escobar
and Estudillo; owner, Raymond
Clays; architect, E H Stoenbhe,
62 York Drive, Oakland; contrac-
tor, Wallace Snelgrove, Alhambra
Ave., Martinez.

COTTAGE, 3-room frame, \$2000; 623
Jones; owner, Frank Soto, Mar-
tinez; contractor, Geo. Nichols,
Martinez.

RESIDENCES, two 3-room duplex,
\$5000; Estudilo and Haven, own-
er and builder, Tony Valentine.

BUILDING PERMITS

SACRAMENTO

RESIDENCE, 7 room, \$5000; No. 1172
Fourth Ave., Sacramento; owner,
F. H. Bell, 1306 36th St., Sacra-
mento.
RESIDENCE, 8-room, \$10,000; No.
2633 7th St., Sacramento; owner,
Dr. B. J. Rea, 2911 24th St., Sacra-
mento; contractor, M. R. Peter-
son, 4530 Parker Ave., Sacramento
GARAGE, public, \$3685; No 320 16th
St., Sacramento; owner, Earl
Shrout, 410 25th St., Sacramento;
contractor, D. Tatit, 2116 O St.,
Sacramento.
RESIDENCE, 7-room and garage,
\$5000; No. 2627 Land Park Drive,
Sacramento; owner, A. A. Strong,
1216 X St., Sacramento; contrac-
tor, N. Koshee.
RESIDENCE, 6-room, \$5000; No. 2216
Ninth Ave., Sacramento; owner,
and contractor, N. H. Lund, 3300
Cutter Way, Sacramento.
REPAIRS, general, \$1000; No. 1312
Twenty-ninth St., Sacramento;
owner, Pacific Gas & Electric Co.,
1312 29th St., Sacramento.
SERVICE station, \$2000; No. 5101 L
St., Sacramento; owner, J. J.
Jacobs, 15th and L Sts., Sacra-
mento; contractor, Campbell Con-
struction Co, 800 R St., Sacra-
mento.

COMPLETION NOTICES

SACRAMENTO COUNTY

Recorded	Accepted
Oct. 1, 1930—Y ST., Sacramento.	
Southern Pacific Co to whom it	
may concern.....	Sept. 29, 1930
Oct. 7, 1930—S ½ LOT 4 N. O, 15th	
and 16th Sts., Sacramento. C E	
and Eunice H Fielder to whom it	
may concern.....	Oct. 3, 1930

LIENS FILED

SACRAMENTO COUNTY

Recorded	Amount
Oct. 4, 1930—LOT 34 Del Paso View	
Tr. No. 1, Sacramento. Walter	
Webb and Nellie D White (as	
Sacramento Motor Exchange) vs	
Floren Dizon; Nellie Dizon and	
Grace L De Camp.....	\$197 62
Oct. 4, 1930—N ½ OF W ½ and E	
½ of S ½ Lot 10, Sacramento.	
Edw Cecchettiini vs Charles A	
and Carrie M Hahn.....	\$526.55

BUILDING PERMITS

FRESNO

DWELLING and garage, \$1975; No.
1712 B St., Fresno; owner, Taylor
& Wheeler, Inc.
DWELLING and garage, \$3000; No.
1535 Glenn Ave., Fresno; owner,
and contractor, Dunn & Doss, 3239
Illinois St., Fresno.
DWELLING and garage, \$3000; No.
1533 Glenn Ave., Fresno; owner,
and contractor, Dunn & Doss, 3239
Illinois St., Fresno.
ALTERATIONS and additions, \$2,000;
1000 Fulton St.; owner, Wonder
Inv. Co., premises; contractor, Al-
ta Roofing Co.

BUILDING CONTRACTS

FRESNO COUNTY

GARAGE
LOTS 29 TO 32 BLK 96, Fresno. All work for garage and service station.

Owner—Richfield Oil Co. of Calif.
Architect—Rafael Lake.
Contractor—Shields, Fisher & Lake,
Pacific Southwest Bldg., Fresno.
Filed Aug. 6, 1930. Dated —.

TOTAL COST, \$53,500
Bond, none. Limit, 90 working days.
Forfeit, none. Plans only filed.

LIENS FILED

FRESNO COUNTY

Recorded	Amount
Oct. 4, 1930—LOTS 1 TO 8 BLK 45, Arlington Heights Tract, Fresno	
Maisler Bros Lumber Co vs C R Shipley et al	\$652

Legal Notice

**STATEMENT OF OWNERSHIP,
MANAGEMENT, CIRCULATION,
ETC., REQUIRED BY THE ACT
OF CONGRESS OF AUGUST 24,
1912.**

OF BUILDING & ENGINEERING
NEWS, published weekly at San
Francisco, California, for October 1,
1930.

State of California, City and County
of San Francisco, ss.

Before me, a Notary Public in and
for the state and county aforesaid,
personally appeared J. I. Stark and
R. J. Rath, who, having been duly
sworn according to law, deposes and
says that they are the owners of the
BUILDING & ENGINEERING NEWS,
and that the following is, to the best
of their knowledge and belief, a true
statement of the ownership, manage-
ment (and if a daily paper, the cir-
culation), etc., of the aforesaid pub-
lication for the date shown in the
above caption, required by the Act
of August 24, 1912, embodied in Sec-
tion 411, Postal Laws and Regulations,
printed on the reverse of this form,
to wit:

1. That the names and addresses
of the publisher, editor, managing
editor, and business managers are:

Publisher, Stark-Rath Printing &
Publishing Co., 547 Mission St., San
Francisco.

Editor, J. P. Farrell, 1258 39th Ave.,
San Francisco.

Managing Editor, J. P. Farrell, 1258
39th Ave., San Francisco.

Business Managers, R. J. Rath, 786
31st Ave., San Francisco, and J. I.
Stark, 778 30th Ave., San Francisco.

2. That the owners are:

Stark-Rath Printing & Publishing
Co., 547 Mission St., San Francisco.
R. J. Rath, 786 31st Ave., San Fran-
cisco.

J. I. Stark, 778 30th Ave., San
Francisco.

A. R. Miller, 869 Trestle Glen Road,
Oakland.

3. That the known bondholders,
mortgagees, and other security holders
owning or holding 1 per cent or more
of total amount of bonds, mortgages,
or securities are: none.

4. That the two paragraphs next
above giving the names of the own-
ers, stockholders, and security holders,
if any, contain not only the list of
stockholders and security holders as
they appear upon the books of the
company but also, in cases where
the stockholder or security holder
appears upon the books of the com-

pany as trustee or in any other
fiduciary relation, the name of the
person or corporation for whom such
trustee is acting, is given; also that
the said two paragraphs contain
statements embracing affiant's full
knowledge and belief as to the cir-
cumstances and conditions under
which stockholders and security hold-
ers who do not appear upon the books
of the company as trustees, hold stock
and securities in a capacity other
than that of a bona fide owner; and
that affiant has no reason to believe
that any other person, association, or
corporation has any interest direct or
indirect in the said stock, bonds, or
other securities than as so stated by
them.

STARK-RATH PTG. & PUB. CO.,
Publishers
R. J. RATH, Secretary.

Sworn to and subscribed before me
this 30th day of September 1930.

(SEAL) CHALMER MUNDAY,
Notary Public in and for the City
and County of San Francisco, State
of California.
(My commission expires Oct. 25, 1933)

HELLER COMPANY SUED FOR \$20,057 ON ACCOUNTS

A suit to collect \$20,057.07 from the
H. E. Heller Company of Stockton on
liabilities has been transferred from
the San Francisco Superior Court to
the San Joaquin county courts.

The suit was originally filed in
August, 1929, by George J. Miller, to
whom the accounts have been as-
signed by the creditors. Defendants
are Clyde Waterman, C. E. Kennedy,
H. H. Bosen and John Doe, stock-
holders of the Heller Company.

Accounts are listed as Baker,
Hamilton & Pacific Co., \$1538.98; Pen-
insula Iron & Steel, \$4.50; Wilkes,
Pearson & Knutzen Co., \$371.65; L. S.
Weeks Co., \$178.31; Pioneer Rubber
Mills, \$1913.30; A. Leitz Co., \$181.50;

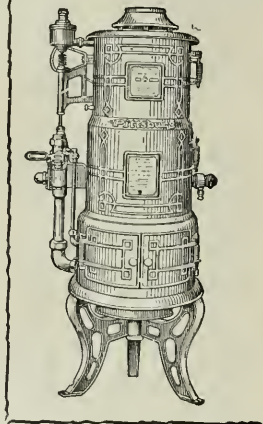
W. S. Wetenhall Co., \$19.01; Stockton
Lumber Co., \$71.20; Western Pipe &
Steel, \$767.48; Gunn, Carle & Co.,
\$414.43; C. W. Marwedel, \$75.58; R.
B. Moore Co., \$110.32; John A. Roeb-
ling Sons Co., \$18.56; Hercules Powder
Co., \$273.49; California Auto Supply,
\$137.14; U. S. Steel Products Co.,
\$763.75; Ingersoll-Rand Co., \$378.15;
A. M. Castle & Co., \$2079.39; Truscon
Steel Co., \$244.50; W. H. Warden Co.,
\$569; Detroit Steel Products, \$338.11;
Linde Air Products Co., \$118.13; Presto-
O-Lite Co., \$131.41; Standard Oil,
\$216.16; Pacific Coast Steel Co.,
\$796.16; Buda Co., \$731.73; Zurich-
Bros. Co., \$94.21; Walworth California
Co., \$190.64; Chicago Pneumatic Tool
Co., \$1477.11; W. P. Fuller & Co.,
\$64.17; Judson Manufacturing Co.,
\$49.15; Paynes Bolt Works, \$10.12;
Hickinbotham Brothers, \$2034.70 and
\$1750 on promissory note.

PASADENA ROOFERS ORGANIZE

Fred P. Clyde has been elected
president of the Pasadena Roofing
Contractors' Association, recently or-
ganized. John W. Lytle was named
vice-president and Jack Horner, sec-
retary.

Ed Massie, C. G. Bell and W. G.
Brunfield were named as a commit-
tee to draft the constitution and by-
laws. The representative roofers of
the Pasadena district present were: R.
T. Best, W. G. Brunfield, Jack Hor-
ner, J. A. Ellis, C. E. Eppard, John
W. Lytle, C. G. Bell, Ed Massie, E. A.
Hemstead, B. L. Whitmore, J. A.
Renshaw, Frank Lander and Fred P.
Clyde.

Shutz Paint and Wall Paper Co.,
1901 Fresno St., Fresno, has been in-
corporated and will engage in a gen-
eral wholesale and retail business in
paints, wall paper and similar mer-
chandise. One hundred shares of com-
mon stock, with no par value, will be
issued.



A "Pittsburg" Auto-
matic Water Heater
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throughout

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fied by all the leading ar-
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Makers of "Pittsburg Automatic"—"Bungalow Automatic"
Storage Systems and "Lyon" Tank Water Heaters.

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478 Sutter St., San Francisco

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BUILDING *and* ENGINEERING NEWS

Publication Office
547 Mission Street

SAN FRANCISCO, CALIF., OCTOBER 18, 1930

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Thirtieth Year, No. 42



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Devoted to the Architectural, Building, Engineering and Industrial Activities on the Pacific Coast

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R. H. ORR HEADS STATE ARCHITECTS

Robert H. Orr of Los Angeles was elected president of the State Association of California Architects at the annual meeting of that body in Del Monte last week.

Charles F. B. Roeth, Oakland; G. Stanley Wilson, Riverside, and Albert J. Evers, San Francisco, were chosen vice-presidents. Chester H. Miller, Oakland, was named secretary; L. G. Scherer, Los Angeles, assistant secretary; A. M. Edelman, Los Angeles, treasurer; William Garren, San Francisco, assistant treasurer.

Members of the executive board are Frederick H. Meyer, San Francisco; Richard C. Farrell, Alhambra; Alfred P. Priest, Glendale; Harris C. Allen, Oakland; Henry C. Collins, Palo Alto; John J. Donovan, Oakland, and Mark T. Jorgensen, San Francisco.

By unanimous vote the architects pledged the full co-operation of the association to prevent the defacing of California's scenic highways with billboards, shacks and other unsightly structures.

Another resolution gave unanimous endorsement of the Golden Gate Bridge project.

FRESNO BUILDERS' EXCHANGE AGAINST DAYLIGHT SAVING

Building activities in Fresno, as well as all the other sections of California, will decrease under the so-called daylight saving plan, according to members of the Fresno Builders' Exchange.

A resolution urging defeat of the proposed legislation has been adopted by the exchange, it is announced by Harry Cayford, secretary-manager of the organization.

The measure, according to the resolution, "is economically unsound, will cause further business depression by interfering with the established order of business, will interfere with the established habits of people, will interfere with established schedules of industry, will inflict financial losses and possible ruin upon many business enterprises and will interfere with the normal habits of the workman and woman and increase the percentage of sickness; will inflict hardships upon school children and will facilitate stock gambling."

LUMBERMEN ADOPT "FIRM PRICE LIST PLAN"

California white and sugar pine manufacturers have adopted a "firm price list plan" for sales similar to that put into effect by the West Coast Lumbermen's Association for rail shipments. Under this plan each firm issues its own price list and no sales may be made at a less price during the life of the list. However, each firm may issue a new list whenever it wishes to do so.

COAST BUILDING OFFICIALS CREATE RESEARCH DEPT.

A research department was created by the Pacific Coast Building Officials' Conference at the annual convention at Long Beach.

The proposal was presented by a sub-committee of the executive committee, which stated in its report that there was necessity for some way to officially determine the merits of various building materials and appliances which had not already received the approval of some one of the recognized bureaus or committees on standards.

Managing Secretary David H. Merrill, who presented the report, stated there were samples of four or five materials now in his office awaiting approval by the conference which had not been passed upon by any one of the existing bureaus.

A suggested plan submitted by the committee was to place the research department under the control of a committee of nine members to be made up of three from each of the northern, central and southern districts. Where the materials were of importance only to a single district they were to be passed upon by the three members of the district concerned, tests to be made in the presence of at least two members. In cases where materials were of wider importance they were to be passed upon by the entire committee, which was to be represented at the tests by not less than three members. Costs of tests will be borne by the firms or individuals requesting them.

A requirement that tests should be made at the laboratories of recognized bureaus and committees on standards, when such were available, precipitated a debate which brought out that this might necessitate members traveling long distances to laboratories in Washington, Chicago and other places to witness tests, which it might not be convenient for them to do.

As a result of the discussion, it was decided that the details of the plan should be worked out by the research committee after a more thorough study of the matter. The president of the conference was authorized to appoint the new committee. Names of the members will be announced later.

STEEL ORDERS DECREASE

Unfilled orders of the United States Steel Corporation decreased 155,866 tons in September to a total of 3,424,338 tons September 30. In August a decrease of 441,551 tons was shown. The back log of August 31 was 3,580,204 tons. On July 31 unfilled orders aggregated 4,922,055 tons. On June 30 the total unfilled tonnage was 3,968,064, and on September 30, 1929, unfilled orders amounted to 3,902,581.

LATOURETTE-FICAL RETIRES FROM BUSINESS

Latourrette-Fical Company, since 1876 specializing in plumbing, heating and ventilating, electrical and sheet metal work, is retiring from business. Unfilled orders and contracts will be completed but no new work undertaken, officials of the company announce.

M. H. Carpenter and J. H. Mendenhall will continue the plumbing, heating, ventilating and sheet metal business and Chas. E. Turner will continue the electrical business at the old address, 907 Front street, Sacramento.

The business was founded in 1876 by P. H. Latourrette and was continued in 1898 by J. Latourrette and then Latourrette & Fical in 1905 and the corporation of Latourrette-Fical Co. was formed in 1910.

Mr. Latourrette will continue at the Sacramento address until such time as all undertakings shall have been completed.

BUILDING OFFICIALS CONFERENCE ELECTS OFFICERS

S. P. Koch, building inspector of Berkeley, was elected president of the Pacific Coast Bldg. Officials' Conference at recent convention of that body at Long Beach. C. D. Wallis of Long Beach was elected first vice-president; A. J. Bird of Vancouver, B. C., second vice-president, and D. H. Merrill, Long Beach, was re-elected managing secretary-treasurer.

Members of the new executive committee elected are:

To serve one year: Northern district, W. A. Pinney, Salt Lake City, Utah; central district, W. A. Curtis, Stockton; southern district, C. B. Pickett, Coronado.

To serve two years: Northern district, P. H. Spangenberg; central district, A. J. Hurley, Richmond; southern district, J. C. Largent, Albuquerque, N. M.

To serve three years: Northern district, R. W. Fundlett, Eugene, Ore.; central district, C. L. Baker, Alhambra; southern district, G. S. Moore, Austin, Texas.

CALIFORNIA LOADBEARING TILE STRENGTH

The American Society for Testing Materials designates three grades of loadbearing tile for use in building construction.

Loadbearing tile manufactured in California will be invariably found to comply with, and in most cases exceed the requirements for the highest grade.

Compressive strength based on gross area side construction, average of 1000 pounds per square inch with individual minimum 700 pounds.

Average water absorption by 1 hour boiling, maximum average 12% with individual maximum 15%.

TRADE INSTITUTE IS MEANS TO ASSURE BUSINESS PROFITS

Address of Chas. F. Abbott, Executive Director, American Institute of Steel Construction, at the 1930 Convention of the National Association of Ornamental Iron and Bronze Manufacturers at Baltimore, Md.

Trade associations are facing a crucial test, according to Mr. Abbott. Industrial institutes have concentrated on technical improvements, elimination of waste and other reforms, and now it is necessary that they bend their efforts to improve profits in business, he says.

"With all the material facilities at our hands," said Mr. Abbott, "are we able to insure normal profits to the normal business enterprise? With all the skilled workmanship at our control, with all the banking resources to aid us, and all the raw materials within our reach, have we found an adequate means of insuring normal profits to our undertakings?"

"It is a notorious fact that we have not, and it is an even more notorious fact that many of our business executives are unwilling to test the effectiveness of such palliatives as we have to offer. This is by far the gravest problem before us today."

Mr. Abbott analyzes the functions of a trade institute. His views prove food for thought. They are published herewith.—Editor.

American business is inventive. It has largely solved the problems of production. It can produce all the goods that mankind desires, and can produce them in any quantity and any quality that the consuming public will take them. American finance is potent and willing to back up production genius. All the capital business requires can be raised upon a moment's notice.

But with all these facilities at our hands, are we able to insure normal profits to the normal business enterprise? With all the skilled workmanship at our control, with all these banking resources to aid us, and all the raw materials within our reach, have we found an adequate means of insuring normal profits to our undertakings?

It is a notorious fact that we have not, and it is an even more notorious fact that many of our business executives are unwilling to test the effectiveness of such palliatives as we have to offer. This is by far the gravest problem before us today. The time for dreamers is past. We are called upon to face a serious, complex problem.

In most cases where unsatisfactory profits exist the causes may be attributed largely to

- Individual Selfishness
- Excess Capacity
- Obsolete Equipment
- Inefficient Management
- Inadequate Costs
- Poor Salesmanship
- Ignorant Competition

There are other causes, but these problems in most industries represent the real hazards to be overcome. Existing legislation prevents agreements that involve price fixing or attempts to restrict free competition.

Experience has proven that any reliance upon price-fixing agreements has failed to improve conditions because of the dishonesty of at least some of those who participate.

Furthermore price regulation and control over competition both are unsound, uneconomic and against public welfare. We can be more constructive through education, standardization, simplification and the elimination of waste.

There may be need for certain modifications in the present laws, or at least, proper interpretations, but in the main the solution of the problems of profitable operation rests in the initiative of each industry itself and of each business executive. The elimination of all unethical, unfair and unjust methods, recognition of the spirit of live and let live, and the application of efficient, intelligent management offers the greatest assurance of permanent success to a business and to an industry.

A properly prepared program to be executed by an institute or industrial trade organization would furnish the necessary leadership and inspire co-operative action.

There are but few who still refuse to accept the vital need of co-operative organization of an industry as offering the truly practical means for bringing the desired improvements. They are the weak links in the chain. They are the non-co-operators who prefer to ride free while their competitors pay. They actually lose while they think they gain.

In these times when all business is passing through an economic transition the need for organized co-operative effort should be apparent. To place any reliance upon individual effort to cope with the many complex problems now confronting all industries is a hopeless waste of time.

New problems are being created, old methods are being scrapped as the new forces are at work. The old ideas must give way to the new. Each industry must clean its own house and modernize. No one individual is big enough to perform miracles for an entire industry. It is only through co-operation and constructive education that any progress can be hoped for.

The modern institute or trade organization offers the only solution to industrial advancement. Individual benefits are enjoyed only as the industry prospers. It is a fallacy to be lieve that any one company can profit at the expense of the industry as a whole. The general acceptance of this economic law would soon convert the destructive, non-co-operator into a whole-hearted co-operator. His attitude would change as soon as he could realize the hopelessness to insure progress through reliance upon individual isolation.

New conditions call for expert management. The efficient executive is constantly alert seeking all available information and facts pertaining to all industrial activities. He wants the latest information and all the developments pertinent to all phases of his business relations. How can he possibly be equipped if he insists upon isolating his company from all the activities of his organized industry? It would be a case of playing a lone hand with all the cards stacked against him. In these times no real progressive management would tolerate for a moment any reliance upon narrow individualism.

The progressive leader is out in front, in the midst of things. He acts safely and wisely because he knows he is in possession of the facts. He depends upon co-operation, he encourages co-operative effort because he knows that success for himself and his company follows the progress of his industry. This type reflects the new leader in business, the creative constructor and the builder. He wins while the other fellow loses.

Given proper support, the efficient trade organization can and should lead its industry out and away from most of its perplexing difficulties. Profitable operation under present conditions depends to a large extent upon proper and intelligent understandings and relations between competitors. Ignorant individual selfishness which is a principal cause of impaired prices and profits can be supplanted by a more enlightened form of competition as constructive education becomes intensively applied.

Educational measures cannot succeed if one competitor attempts to instruct another, but it does become effective when applied by the staff of an industrial institute who are free of all commercial or selfish interests. It is well to bear in mind that the institute does not function exclusively for the benefit of an industry it represents. Its true position is that of an independent unit that serves unselfishly the buyer, the public and the industry without any partiality or favoritism. In this way public confidence and support is obtained and a co-ordination of private interests is formed that develops power and influence.

With such a position once obtained the institute can proceed with its program to insure fair prices and profits and do so legally and equably.

I have already listed the more important problems that influence unsatisfactory prices and profits. Now I wish to review briefly just how a well organized institute can bring about more stable conditions.

If members of an industry are to get together and deride and complain about their competitors, criticize prices and expound personal ambitions about co-operation and talk loudly about the need of united action, then it will inevitably wind up like the brawling cat fight in a back yard.

There must be higher ideals and motives expressed in a comprehensive program that includes research and similar constructive activities. If the interest and support of the more successful concerns is to be obtained. Busy men have no time for the little, play-thing things in business. They are more concerned with the big ideas that will promote and build business.

Individual selfishness is undoubtedly prompted by a remnant of animal instinct still found in human beings. An animal becomes vicious and will fight when it is attacked or when it is hungry. The same instinct becomes active when a business organization is attacked or when it needs business to keep going.

The boa constrictor is one of the deadliest of all reptiles. When he awakes and becomes hungry he crawls out into the clearing and he is vicious. But if he is thrown a loaf of bread he will swallow it and return to

the jungle and go to sleep again. He is then peaceful and harmless.

It is exactly the same with a business organization without sufficient business to absorb its overhead to say nothing of a profit.

Education, properly directed by an institute, can develop a recognition of the spirit of live and let live. It can develop ignorant competition into a more enlightened form. It can, through its meetings and conventions, extend an acquaintanceship among competitors and their families that frequently ripens into sincere friendship.

By this process confidence in one another becomes established and outbursts of selfishness become less in evidence. In the last analysis selfishness flourishes through misunderstandings and lack of confidence. Once confidence in one another is developed selfishness begins to evaporate as faith and trust become established in its place.

Inadequate Costs

Prices and profits should be based upon accurate costs. To the total cost should be added a profit to establish the sale price. In no other way can a business endure. Industry must be taught that a million times nothing is still nothing.

Profitable operation calls for the lowest cost consistent with quality. Costs should be constantly studied and observed as they form the key to business success.

The institute should promote programs of standardization, simplification and the elimination of waste. It should always be on the alert to reduce costs and to prevent competitive materials from obtaining any advantage.

Education should constantly be applied to bring about a general recognition and acceptance of the fundamental law that costs plus profit should always be in evidence in the establishment of all sales prices. The best influence should constantly be exerted to eliminate the vicious system of attempting to outguess competition as a means of obtaining a selling price.

Uniform cost accounting systems should be developed by the institute and their principles become accepted and applied as a result of education.

Experience has demonstrated that education as applied to cost has proven effective. As progress is made more intelligent prices follow. As prices become based upon accurate costs then losses are converted into profits, and industry begins to experience the stability of profitable operation.

Poor Salesmanship

One of the principal causes of unsatisfactory prices and profits is inefficient salesmanship.

Failure to apply a single bid policy, to recognize profit instead of volume, to refrain from price cutting and other similar destructive selling methods has had a tendency to reduce selling to the level of horse trading.

Here is an opportunity for an institute to conduct a worthwhile program of education that can contribute largely to better prices and profits as the character of salesmanship becomes improved.

Courses in sales training can be prepared, sales literature can be published and distributed, in fact there are many ways to produce better salesmanship.

Codes of Trade Practice should be adopted. A Code of Standard Practice should represent the rules of the industry to control all relations between buyers and sellers and to eliminate misunderstandings and controversies.

The institute should lead in bring-

ing about aggressive supervision over all salesmen. It should lead salesmen to fight for the product of the industry and to do so on a co-operative basis.

The continued application of sales education reflects itself in higher selling standards. Prices begin to improve thereby influencing better profits. The institute is in a strong position to wield a constructive influence over the buyer as well as the seller and it should be fully utilized.

Inefficient Management

Management that is lacking in ability presents another problem that affects prices.

With limited vision such management as there is depends too much on individual aggressiveness and selfish thinking in the mapping out of its policies. This type of management frequently frowns upon the idea of co-operative effort. They seem to be satisfied to go-it-alone in their own way and usually with insufficient facts and information with which to steer a safe course.

Education as made available to these individuals on the part of the institute has in the majority of instances been well received. There are many examples of striking improvements as intelligent planning and control have supplanted the careless guesswork that too frequently in the past has been based upon unintelligent information.

Obsolete Equipment

There are some companies in all lines of business attempting to compete with obsolete plants and equipment. In their struggle to obtain business they are forced to quote prices without any regard to cost. It is this type of competition based upon inefficiency and ignorance that presents a demoralizing influence on both prices and profits.

Modernization of both plant and equipment is essential if a company is to remain permanently in business.

The institute in its educational program should encourage efficient operation as a means of reducing costs and in doing so bring the character of competition up to a higher standard of intelligence.

Excess Plant Capacity

Production output tuned up in excess of demand encourages price cutting and impairs profits. There are still some obsessed with the idea of mass production, disregarding the vital need of a susceptible market to absorb the output and at a profit. It is far more desirable to operate on a basis of 60% output at a profit instead of 100% at cost or less than cost.

The theory of rationalized output in keeping with the consumption demand is a lesson industry must learn. The institute is the logical instructor. In the meantime programs of research to develop new uses and to extend present markets are the proper approach to the problem on the part of the institute. Advertising, publicity and field representatives support the campaign. A fighting spirit of the industry on the part of all individuals should be developed. The industry must co-ordinate its efforts in aggressively fighting for a greater use of its product and preventing its displacement by the substitution of competitive materials.

This is all in line with the educational work of the institute and a part of its program.

As present markets are further extended and new uses and applications are perfected consumption increases, and as consumption increases the problem of excess plant capacity is dissipated. The institute should discourage any attempt to engage in a further extension of capacity output

as consumption is increased and if this control is successful prices and profits will improve as supply more nearly meets demand.

Ignorant Competition

Ignorant competition prevails whenever the pace set by the larger concerns is too fast for the smaller units. As competition becomes intensified there often prevails a disregard of the principle of live and let live. The larger companies reach out after the smaller orders that rightfully belong to the smaller concerns. Such tactics invite retaliation and usually develop the ignorant form of competition.

It is the smaller concerns that serve as the missionaries, working the highways and byways for the smaller orders that are indispensable to an industry. It is these small users, as they become educated, that frequently grow to important customers of the larger units.

The old idea of extermination of the small concerns that used to prevail has been almost entirely abandoned. The institute has been instrumental by means of education in influencing better understandings between the larger and smaller units. An attempt to exterminate smaller competitors might prove successful but a worse crop, even less controllable, would spring up the next day and nothing would be gained. A much better plan is for the larger concerns to rather thesmaller ones under their wings and subject them to helpful education. Leaving the small orders for the smaller concerns, the larger companies would benefit as the smaller units confined their efforts exclusively to business they are better equipped to handle.

This and similar educational activities carried on by the institute is successful in reducing ignorant competition and replacing it with a more considerate and enlightened form of co-operative competition.

As a result prices show an improvement that is reflected in better profits.

As the public becomes acquainted with the institute, its ideals and its purposes, the industry becomes recognized and good will and public support are readily developed. Both the institute and the industry are advanced as the influence and position of the institute becomes established.

Without an institute the industry cannot hope to obtain the recognition that is otherwise possible.

I have been compelled to speak to you in generalities, but you can readily apply them to your specific problems. During the past ten years the industrial institute has proven itself and made its greatest progress. What I claim for this method of insuring business profits is the result of no idle dream but is based upon practical observation and test. Under wise management the institute can effect a cure of most of the competitive problems in business, reduce litigation and lighten the duties of those entrusted with the administration of our laws.

But this work demands the undivided support of each and every unit in the industry. The institute must have a competent staff and it must receive financial as well as the moral support of all members of the industry. We have no system of compulsion in this country. We have no way of compelling a company to co-operate. I sincerely believe it is best for the public at large that such is the case. Our programs, as a consequence, are equitable, tolerant and constructive. The good results are our sanction, and the certain tailism of the efficiency of industrial co-operation.

THE OBSERVER

What He Hears and Sees on His Rounds

Money conditions affecting home ownership have been disclosed in a survey conducted by the Mortgage Bankers Association of America among members in thirty-three states who report as follows concerning first mortgage lending operations in their territories:

The average rate of interest on first mortgage loans on both city and farm properties ranges at present from 5 1/2% to 6%, little variation having been noted throughout the years 1928, 1929 and 1930.

The supply of first mortgage money for new loans is at present adequate to meet the needs of practically all territories with some localities reporting a supply somewhat in excess of normal demands.

A noticeable improvement in the activity of the city and farm real estate market has been noted throughout the year in a number of territories. Very few localities report any appreciable decline in 1930 real estate transactions as compared with 1929.

City and farm real estate occupancy figures show a steady improvement so far in 1930.

A diminishing number of foreclosures and delinquencies reported by banks and mortgage companies indicates that a desirable point of stabilization is being realized.

Berkeley carried off two honors at the recent meeting of the Pacific Coast Building Officials Conference at Long Beach.

Stanley P. Koch, city building inspector of Berkeley, was elected president of the Conference. Honor Number One.

Berkeley was selected as the 1931 Convention City. Honor Number Two.

Northern California benefits in two ways. First a local man was selected to head an organization which is doing constructive work—notably, the Uniform Building Code which is receiving attention in every section of the United States.

Secondly, the 1931 conference will be held just across the bay from where the Conference was organized just nine years ago when "Daddy" Woodruff called to order a handful of men who had a big interest in a small organization in process of formation that today is doing more to benefit the construction industry than any other single unit in the construction field.

The writer attended the organization meeting in the San Francisco City Hall. It was a slow meeting—but—the material was there. Materials, properly assembled, make a Class "A" structure.

It is rather early—but—Welcome to Berkeley in 1931, building officials of the Pacific Coast.

The attention of architects is called by the Common Brick Manufacturers Association to the fact that the third common brick house competition, closes at midnight on November 18. This competition, the brick manufacturers declare, is the easiest that has yet been held. The first prize carries an award of \$500.

The competition will not interfere with the present activities of the architect. The requirementst are merely

a set of floor plans and two photographs of any brick house you may have designed. No special drawings; not even nom de plumes.

The one important requirement is that the walls must show at least 75 per cent of the exterior surface of common brick, and the back-up must be of sound, fire resistive materials. No cinder block or other synthetic composition back-up material will be eligible. Nor will brick veneer over wood.

More than \$100,000,000 in new public building contracts will be let by the Treasury in 1930 in carrying out an expanded building program which the administration planned as an aid to business recovery. In the present calendar year the Treasury has awarded 66 contracts for buildings to cost \$43,000,000 and plans to let 49 additional contracts aggregating \$30,000,000 in the remaining three months of 1930. To this \$73,000,000 must be added the cost of land, which will bring the total above \$100,000,000 this year.

The business bulletin of the LaSalle Extension University (Chicago), looks to the fall months for a little seasonable upward spurt of business in general.

"Business," the bulletin says, "is now holding its ground" in spite of a combination of exaggerated "drought scares" and reports of serious depression effects in foreign countries. Autumn months bring with them the usual seasonal demands for products and services. October, therefore, ought to look better than August and September.

Business leaders are ready to respond, but the public as a whole seems to be holding back—still hesitating somewhat. Encouragement to co-operate is what they need. The path to recovery is well cleared. All along the line there are indications of attempts to encourage general co-operation—sensing what people need and giving it to them at low cost.

TORONTO ON THREE-DAY WEEK RESTRICTS IMMIGRANTS

In Toronto the Bricklayers and Stone Masons Union, the Builders' Exchange and General Contractors Association have agreed to a three-day week with a division of available work among the craftsmen during the period of depression. Another measure to reduce the number of those unemployed is seen in the restriction of immigration. Orders to refuse visas to prospective immigrants likely to become public charges have been issued to all American consuls.

Canadian labor unions have asked the dominion government to place restrictions on immigrant laborers similar to the action taken in the United States. That the federal government has further aided in reducing unemployment is seen in the employment figures on federal aid road projects, which show 35,800 men at work now, compared with 34,500 a year ago—a gain of 4 per cent.

TRADE NOTES

D. C. Westaway, formerly with the Electric Corporation, has joined the sales organization of the Electrical Specialty Co., 1575 Folsom Street, San Francisco.

Andrew H. McCampbell, formerly with the Pioneer Paper Company, is representing the Bancamerica-Blair Corporation on the floor of the San Francisco Builders' Exchange.

Chico Paint & Oil Co. of Chico, operated by J. W. Bish and Paul Edmiston, announce the opening of new quarters at 122 Broadway. The company was formerly located at 330 Main St., Chico.

W. DeP. Tardif, formerly associated with the General Electric Supply Corporation, has joined the northern California sales force of Walker Brothers, manufacturers of electrical construction material, 50 Hawthorne St., San Francisco.

Perry E. Sawyer, well known to Northern California material dealers, has withdrawn from the Allied Rock & Materials Company of Los Angeles and is now operating as the Eclipse Plaster Products Distributing Company with headquarters at 133 East Jefferson St., Los Angeles.

Frank J. Ploch Co., 424 Hayes St., has issued a twelve-page booklet featuring the Ploch Heating Appliances, products that are "safe, sanitary, silent, economical, efficient, long lived and comply with every requirement of all health and fire laws." Appliances featured in the booklet include the Ploch Unit Furnace, Odorless Gas Furnace, Center Draft Coal Furnace, Console Gas Heater and Console Electric Heater. Copies of the booklet will be forwarded on request.

Maydwell & Hartzell, Inc., 158 Eleventh St., San Francisco, and 455 Colyton St., Los Angeles, have been appointed Pacific Coast distributors of the electrical pole line hardware specialties and custom castings manufactured by the St. Louis Malheable Casting Company, St. Louis, Mo. The E. A. Foster Lumber Company, of Seattle, manufacturer of Douglas fir crossarms, has also appointed Maydwell & Hartzell to distribute its product on the Pacific Coast.

NEW ORGANIZATION TO OPPOSE UNFAIR RUSSIAN BUSINESS

An alliance has been formed of the American industries and labor groups that are adversely affected by unfair imports from Russia under the five-year industrialization program which involves reckless selling of Russian products. The new organization, which was preliminarily formed in New York, is called the Joint Conference on Unfair Russian Competition. This organization will serve as a clearing house for information concerning Russian competition in the American market and will disseminate this information and endeavor to secure the co-operation of public authorities in the adoption of and the enforcement of policies that will be protective of American industry and labor against the unfair competition of the nationalized industries of Russia.

USURY ACT AMENDMENT L. A. EXAMINER

(Reprint from Los Angeles Examiner,
October 6)

The California Usury Act is one of the important measures on the statute books.

That act is now being attacked by persons who desire to make enormous profits out of the financial troubles of the poor and needy.

Under the California Usury Act, 12 per cent per year is the limit which can be charged on loans.

The proposed amendment No. 10, which comes before the people of this state at the election next month, would make it possible for the exploiters of the poor man's needs to make a usurious profit of **forty-two per cent** per year!

This pernicious proposal should be turned down so emphatically by the voters that no man would again have the hardihood to advance such a proposal.

Twelve per cent per year is enough, in all conscience, to charge the poor man who must borrow small sums of money to tide over his necessity.

That is one per cent per month. Surely that is enough to satisfy any reasonable lender.

But forty-two per cent—such an outrageous figure makes one understand why the present law is called the Usury Act. It is calculated to prevent usury, and that word denotes one of the most hideous wrongs that one man can do to another in civilized society.

The usurer is one who does not think of others as human—he thinks of them as insects to be led to hideous death in a spider web. Nor does he think of himself as human—he longs to be the spider, who sits in the center of that carefully spun web awaiting his victims.

The State Usury Act brushes away those hideous webs, and keeps them brushed away. The proposed amendment No. 10 would give usurers the chance once more to defile this state's economic life with those vicious webs.

The vast majority of citizens are undoubtedly opposed to this effort to wreck one of the most civilized and necessary laws now on the books of this state. The only possible danger is that citizens will not be warned of the nature of the proposed amendment.

Every citizen who understands how dangerous the amendment is should therefore do his best to bring the matter to the attention of others.

California must not suffer the disgrace of legalizing the robbery of the poor.

U. OF C. ENGINEER TO INSPECT SEPTIC TANKS

H. L. Bolton of the University of California agricultural engineering division has started a survey of septic tanks on California farms. This survey will cover ten counties and is to be finished the latter part of next month.

Septic tanks for sewage disposal have been built on hundreds of farms throughout the state, on plans furnished by the agricultural engineering division through the Agricultural Extension Service. How these tanks have functioned and what service they have rendered will be determined by Bolton in his survey.

The counties Bolton plans to visit include Merced, Los Angeles, Orange, San Bernardino, Fresno, Mendocino, Humboldt, Glenn, Tehama and San Joaquin.

Ontario Lumbermen To Defer Royalties Payment

The payment of provincial dues and bonuses in Ontario for the cutting season 1929-1930 have been partially deferred as a means of alleviating conditions for Ontario Lumbermen, was recently announced by Hon. William Flinlayson, Minister of Lands and Forests, according to a confirmed press report. This information was transmitted by Avery F. Peterson, Assistant Trade Commissioner at Toronto to the Lumber Division of the Department of Commerce.

The offer to lumbermen provides for an option of paying only 50 per cent of the 1929-1930 dues on or before October 30, 1930, the balance to be carried free of interest until April 30, 1931, when 25 per cent of the amount will be due, and to October 31, 1931, when the final payment will be due. The privilege is applicable only to accounts accruing from the cutting of timber during the last season, and is limited to lumbermen who have paid up all accounts prior to 1929-1930.

This announcement follows a petition recently made by a delegation of lumbermen to the effect that unless some adjustment in government taxes was made, woods operations in the coming season will be seriously curtailed, with a consequent reduction in employment.

Variance of opinion is current among lumbermen as to the probable effect of the offer of deferred tax payments. One trade comment estimates a saving of 1 per cent of the cost of production. It is generally conceded, however, that existing conditions in the lumber trade point to reduced logging operations this year, even though woods labor costs are likely to be somewhat less than in previous years.

It is stated in the trade that less winter operations this season would be helpful to the industry in view of the present large inventories and would possibly contribute to an eventual upswing in the prices of both hardwoods and softwoods.

A cablegram from Lynn W. Meekins, Commercial Attache at Ottawa states that lumber stocks are heavy with no immediate market activity expected and lumber cut this winter will likely be far below normal.

ELECTRICAL STANDARDIZATION BY THE BRITISH

Electrical standardization work by the British Engineering Standards Association has been instrumental in improving quality and lowering costs, according to an article in Electrical Industries, London, January, 8, 1930. The article says in part:

"...the increased turnover which has taken place since the war years has been chiefly due to improved methods of handling and costing, and to the extent to which electrical goods have been successfully standardized by the British Electrical Standards Association. Certainly in most branches of manufacture, whether it be generators, motors, transformers, cables, or other accessories, research and standardization have been effectively made use of, which has resulted in improved quality but diminished cost, so that our manufacturers can now hold their own and compete successfully with American and Continental competitors."

LUMBER STRESS COMMITTEE NAMED BY LAMONT

The appointment of a sub-committee on unit working stresses for lumber and timber is announced by Robert P. Lamont, Secretary of Commerce, and Chairman of the National Committee on Wood Utilization. The establishment of this board is a result of a request made by the lumber industry to the National Committee to meet the demand of engineers, architects, builders and others for reliable working stresses.

Members of the sub-committee, all nationally-known engineering authorities, as announced by Secretary Lamont, are as follows: Chairman, F. O. Dufour, consulting engineer, United Engineers and Constructors, Inc., Philadelphia; Morris Brooks, chief, Bureau of Building Inspection, Department of Public Safety, Philadelphia; Clement E. Chase, consulting engineer, Philadelphia; C. C. Cook, maintenance engineer, Baltimore and Ohio Railroad Company, Baltimore. John Foley, assistant purchasing agent, Pennsylvania Railroad, Philadelphia; J. N. Pease, a director of Lockwood Green Engineers, Inc., New York City; G. J. Ray, chief engineer, Delaware, Lackawanna and Western Railroad Company, Hoboken, N. J.; W. A. Slater, director, Fritz Engineering Laboratory, Lehigh University, Bethlehem, Pa., and Morton O. Withey, professor of mechanics, University of Wisconsin, Madison.

According to Axel H. Oxholm, Director of the National Committee on Wood Utilization, this action will afford lumber producers an opportunity to submit to a group representing all branches of the engineering profession for review and approval, such working stresses as are advocated for the different structural grades. Upon presentation of stress recommendations, the sub-committee will examine the supporting data available and will either approve or disapprove the proposed working stresses. Only in cases of approval will its decision be publicly announced.

It was pointed out that it was not to be a function of the sub-committee to set up or recommend working stresses, nor does it have or desire any power to enforce its decisions. It has been established by the National Committee on Wood Utilization for the benefit of the producer and consumer in order to facilitate the economical use of structural lumber and timber, it was explained.

It is the Committee's belief that when the various regional lumber manufacturers' associations reach an agreement among themselves on the subject of stresses covering the different species, if they can in addition obtain the approval of an impartial body, the chance for general acceptance of their working stresses among specifiers and consumers will thereby be much greater and react to the benefit of all concerned. Through this proposed arrangement it is hoped much of the present confusion in regard to timber stresses will be cleared up. It is interesting to note that the steel industry for some time past has had the benefit of such a stress committee, and it is confidently expected that the same benefits will accrue to the lumber industry and lumber consumers.

1930 Revised Edition of San Francisco Building Laws now on sale at office of Daily Pacific Builder; \$1.00 per copy.

ALONG THE LINE

George D. Clark, formerly vice-president of the Mangrum-Holbrook Co., has been elected president of the company to succeed the late Arthur Sherman Mangrum. John A. Peterson, for many years sales manager for the Mangrum-Holbrook interests, has been elected vice-president. The balance of the personnel and heads of the various departments remain the same, company officials announce.

William White, pioneer San Mateo contractor, died suddenly at his home in that city, October 9. Death was due to a heart attack. White had been ill for the past few weeks.

Los Angeles County Building Material Dealers' Association has been reorganized with W. S. Crosby, formerly with the Hammond Lumber Co., as secretary-manager, and headquarters at 401 Union Insurance Bldg., Los Angeles.

Arthur Hateley, senior partner in the firm of Hateley and Hateley, Sacramento plumbers, died in that city October 9, following a brief illness. Hateley was the father of Thomas J. Hateley, junior partner of the business.

Harris J. Ryan, professor of electrical engineering at Stanford University, has been made a member of the Edison Medal Committee of the American Institute of Electrical Engineers.

ELECTRICAL INSPECTORS ELECT
RALPH WILEY, PRESIDENT

Ralph W. Wiley, chief of the Department of Electricity, San Francisco, and chairman of the State Safety Orders Committee, was elected president of the International Association of Electrical Inspectors, Southwestern Section at the closing session of the annual convention in the Hotel Maryland, Los Angeles, last week.

Other officers chosen were: First vice-president, J. M. Evans, Los Angeles; second vice-president, Edward W. McLaughlin, Richmond, Calif.; secretary-treasurer, C. W. Mitchell, San Francisco; members of the executive committee, H. N. Becker, Los Angeles; A. E. Johnstone, San Diego; H. C. Rice, Los Angeles, and W. W. Hicks, San Francisco.

LISTENWALTER & GOUGH SELL
APPLIANCE BUSINESS

Listenwalter and Gough, Inc., has announced the sale of its electrical appliance and radio business in northern California to the Kaemper-Barrett Corporation. W. H. Kaemper was formerly manager of the Listenwalter & Gough's San Francisco office and J. T. Barrett was formerly sales manager. The change became effective Sept. 1.

Listenwalter & Gough will continue in business at the same address, 871 Folsom St., San Francisco, where they specialize in wiring devices and construction material. L. Phillips is manager of the San Francisco office. The firm's headquarters will continue to be maintained at 819 East First St., Los Angeles.

Among the products taken over for distribution by Kaemper-Barrett Corporation are Royal cleaners, Meadows washers and Hammond electric clocks.

PACIFIC COAST BUILDING IN
SEPTEMBER TOTALS \$23,404,467

The following figures, compiled from reports of building department executives, show the building operations undertaken in the Pacific Coast cities during the month of September, 1930, together with the September, 1929, totals for comparison:

CALIFORNIA

City	September, 1930		Sept., 1929
	No.	Cost	
Alameda	87	\$74,265	\$73,261
Alhambra	71	132,200	207,125
Anaheim		30,683	24,501
Bakersfield	56	62,354	104,070
Berkeley	215	400,122	259,946
Beverly Hills	104	587,750	841,650
Burbank	30	219,855	113,325
Burlingame	28	80,350	282,100
Carmel	7	8,429	15,125
Chula Vista	10	23,330	10,010
Colton	14	9,300	4,700
Compton	19	32,600	60,470
Coronado	21	8,565	21,925
Emeryville	3	600	15,000
Eureka	31	24,330	58,535
Fresno	149	96,081	174,488
Fullerton	14	35,234	101,074
Glendale	88	191,155	304,040
Hayward	9	21,175	20,880
Huntington Park	39	95,285	180,383
Long Beach	477	1,962,190	1,044,085
Los Angeles	2,892	6,665,761	6,629,710
Los Gatos	6	2,050	30,275
Lynwood	26	71,900	69,390
Modesto	31	20,860	30,865
Monrovia	23	53,895	49,450
Monterey	46	41,281	20,295
National City	14	6,300	10,430
Oakland	360	532,586	1,530,496
Ontario	16	17,375	23,763
Orange	18	10,900	30,850
Pacific Grove	14	15,475	23,330
Palo Alto	66	130,430	86,325
Palos Verdes Estate	1	10,100	33,440
Pasadena	416	353,681	996,790
Petaluma	8	6,530	12,730
Piedmont	22	79,759	109,138
Pomona	62	75,550	115,445
Redlands	15	18,280	60,352
Redwood City	37	110,730	37,465
Richmond	74	69,566	15,875
Riverside	52	124,283	46,290
Sacramento	221	243,448	328,002
Salinas	56	110,589	109,360
San Bernardino	56	83,178	84,585
San Diego	389	442,284	1,071,755
San Francisco	549	1,950,831	1,842,015
San Jose	64	306,465	106,350
San Marino	8	66,648	162,300
San Mateo	49	108,528	180,765
San Rafael	18	47,325	45,055
Santa Ana	101	367,066	175,172
Santa Barbara	117	243,765	120,221
Santa Cruz	24	98,979	37,490
Santa Monica	79	148,233	183,785
Santa Rosa	25	19,060	14,497
South Gate	43	81,390	176,000
South Pasadena		20,635	9,820
Stockton	76	67,426	312,155
Torrance	16	17,250	41,450
Ventura	19	46,545	80,727
Vernon		79,495	135,429
Watsonville	14	34,750	11,300
Willow Glen	15	44,050	
Total		7,668\$17,017,553	\$19,115,220

ARIZONA

Phoenix	34	\$168,778	\$498,748
Tucson	102	276,946	152,575
Total	136	\$445,724	\$651,323

IDAHO

Lewiston	34	\$39,918	\$24,335
Nampa	10	18,740	18,110
Total	64	\$58,658	\$42,445

NEVADA

Reno	32	\$49,000	\$124,950
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OREGON

Albany	5	\$2,873	\$3,150
Astoria	35	47,323	6,101
Corvallis	24	6,200	8,397
La Grande	22	15,655	52,710
Marshfield	11	12,570	3,425
Portland	650	2,781,430	1,862,845
Salem	51	20,355	39,784
Total	798	\$2,866,606	\$1,976,112

Logan	4	\$6,800	\$73,200
Ogden	24	57,050	105,400
Salt Lake City	80	240,052	526,960
Total	108	\$303,902	\$705,560
WASHINGTON			
Aberdeen	40	\$30,680	\$72,220
Bellingham	69	37,585	181,470
Everett	30	20,765	113,710
Hoquiam	15	7,340	39,475
Longview	10	20,505	78,535
Olympia	21	10,800	265,350
Seattle	669	1,428,990	1,444,190
Spokane	240	183,589	272,308
Tacoma	240	243,400	231,435
Vancouver	25	15,710	39,500
Walla Walla	31	24,745	17,396
Wenatchee	22	88,245	153,775
Yakima	58	550,670	80,460
Total	1,524	\$2,663,024	\$2,990,034
Arizona	136	\$445,724	\$651,323
California	7,668	17,017,553	19,115,220
Idaho	64	58,658	42,445
Nevada	32	49,000	124,950
Oregon	793	2,866,666	1,976,112
Utah	183	303,902	705,560
Washington	1,524	2,663,024	2,990,034
Grand Total	10,330	\$23,364,467	\$25,605,644

EAST BAY ARCHITECT URGES "YES" VOTE ON AMENDMENT TO USURY LAW—BEST ON BALLOT

By A. W. Smith, Architect

Herewith is published the views of Mr. A. W. Smith, Oakland architect, on the proposed amendment to the Usury Law which will appear on the November ballot. Mr. Smith urges that the industry get behind the amendment as "It will result in a better and more responsible set of contractors; will assure an abundance of capital to finance buildings and will eliminate those settlements on a percentage for those who sell materials."

Daily Pacific Builder, in publishing comment, for or against, the proposed legislation, takes no side in the matter. Such comment is published to secure the views of those who have studied the amendment and are in a position to advise on its acceptance or rejection.

We should be pleased to hear from other readers. Space permitting, all comment received will be published.—Editor.

In your issue of October 7 you published an article by O. A. Graybeal on the proposed amendment to the Usury Law.

The stand is taken that the proposed amendment would, in effect, nullify the lien laws of the state; that the material dealers, etc., could not collect on any lien claims except subject to, and secondary to any loans whatever, on property, etc.

Suppose that this amendment carries, then what will be the result? It will be this:

No contractor who has not a satisfactory credit rating will be able to secure material unless (a) The owner or the builder furnishes the material dealer a satisfactory bond to guarantee payment; (b) The real estate is deeded to a trustee as security for the payment of material, etc., which deed must be prior to any building or other loan.

What effect will this have on the building business? It will result in this: The man now doing business on a shoestring will be wiped out. The contractor with capital and experience qualified for \$25,000 job, won't be able to step out and get a \$250,000 job, and then maybe pull through and maybe not.

It will make a legitimate business

of contracting. As it is now, with a lien law to protect the material dealer, a man with \$1,000 can and often does take on \$100,000 contracts. With the lien law umbrella withdrawn, then Mr. Material Dealer will have to be shown where the coin is coming from, and unless he is shown, the contractor will have to give up the job.

If a man is about to enter the drug or the shoe business, or is about to start a furniture factory or any kind of a factory, he must first establish a credit. This is no unmountable hardship, because, under such conditions we have become the greatest merchants and the greatest manufacturers of the world.

The building business is the only business in California in which a man without capital, knowledge, credit or experience can enter. It is the only business where the dealer, in addition to the ordinary protection of business by ordinary laws, has the added protection of a claim against the real estate of some one other than the person to whom he has sold his wares.

What a chaos it would be, if after you had bought a pair of shoes, to find out that the wholesaler who sold the retailer the shoes, had not been paid, and that therefore the wholesaler had a lien against your home. This comparison sounds silly, but it is a parallel example. It is equally silly to give a wholesaler the right of lien to protect him against poor pay. Why should he not be as the wholesale shoe dealer does and first make sure that his customer can pay.

All this lien protection has resulted in an irresponsible bunch of contractors, some scoundrels, some wholly incompetent and the results are that the totals of liens filed in amount the totals of bankrupt liabilities of all other businesses in which goods are handled. Evidently the lien does not give much protection after all.

Let us all get together and put over the proposed amendment. It will result in a better and more responsible set of contractors; It will assure abundance of capital to finance buildings; it will eliminate those settlements on a percentage for our friends who sell material will assuredly take care of themselves before any goods are delivered. Just study over this amendment—it is the best thing on the bal-

ENGINEERING SOCIETIES EMPLOYMENT SERVICE

Further information regarding positions listed in this column is obtainable from Newton D. Cook, Room 715, 57 Post Street, San Francisco. (Phone Sutter 1684).

R-3220-S ENGINEER, college graduate in mechanical, chemical or mining preferred. Must not be over 35 years and with at least five years experience designing and estimating industrial plant equipment. Salary \$250-\$275 month. Permanent. Location Bay Region, and only local applicants can be considered for interview.

R-3216-S RESEARCH CHEMIST, technical graduate with some experience in paint testing, for similar work in industrial laboratory. Salary \$175-\$200. Apply by letter with references and photo. Location, San Francisco.

R-3364-S SALES ENGINEER, electrical graduate preferred, with some ledge of motor application. Small salary to start. Permanent opportunity. Location, San Francisco
W-499-C-S CIVIL ENGINEER, graduate with experience in the design and construction of sewers and water works to purchase an interest in an engineering business. Some experience in electrical engineering desirable. Apply only by letter. Location, Kansas City.

X-7623-C-S. SALES ENGINEER, for the sale of creosoted wood products. This experience desirable but not essential. Apply by letter Headquarters, South. Traveling.

R-3358-S MECHANICAL ENGINEER with considerable experience in the design and manufacture of pressure pumps, to design same for 600 lbs. working pressure. Good opportunity for an experienced designer. Apply by letter. Location, Northern California.

R-3353-S STRUCTURAL DRAFTSMAN, about 30 years old, technical graduate, with experience covering design and layout of steel, concrete and timber structures. Salary depends upon ability. Location, San Francisco.

MAINTENANCE OF MARBLE

A booklet, "Maintenance of Marble" has been published by the National Association of Marble Dealers. The booklet was prepared by D. W. Kessler, Research Associate, of the Bureau of Standards. It contains sections on cleaning treatment for various types of stains, and special treatments such as those for the prevention of stains and for waterproofing. Copies are obtained from the American Standards Association, 29 W-39th St., New York City.

GERMAN BOILER SPECIFICATIONS

The German national standardizing body has issued two books entitled, "Specifications for Materials in the Construction of Stationary Boilers" and "Specifications for Materials in the Construction of Marine Boilers." These books reproduce a number of German standard (DIN) sheets and contain information about boilers. Copies may be purchased through the American Standards Association, 39 W-39th St., New York City.

R. M. FRANDSEN, S. F. ENGINEER, GRANTED PATENT ON STEEL JOIST

R. M. Frandsen, San Francisco structural engineer, has just been granted a patent on a new structural steel joist. The patent, Number 1776-467, is dated September 23, 1930.

Mr. Frandsen, the inventor, calls his joists, "Angle-Tee-Joists." As the name implies, it is made up of commercial shapes—angles, tee bars and flats.

The joists are light trusses, welded together by the spot-weld process. They consist of light and heavy series, in depths of 8", 10", 12", 14" and 16", and range in span widths from 4'6" to 30'6". The light series are designed for a spacing of 24" c-c and a total load capacity of 100 lbs. per sq. ft. of floor area. By means of counterbalancing diagonals the joists are furthermore designed for a variety of imposed extra loading conditions. For example, when all the live load is moved to one side of joists or when two joists are used during construction as supports for support of brick and mortar boards alongside a wall running parallel with joists.

The light series are intended for floor supports in dwellings, office and school buildings, hotels and apartment houses. The heavy series are for garages, stores, etc. A feature of the patent is the end of the joists. This consists of a bent up part of the bottom chord angles until the distance between the backs of the two chords is $2\frac{1}{2}$ " thereafter these angles are extended in a parallel position with a web plate between them, affording a multiplicity of points of support. Other trussed joists have also such an extension; but the interplay of stresses is being more directly, carefully and scientifically cared for in the design of the one single end plate, where other makes are doing the same in a round-about way with two plates, or a truss design. Some joists now in the market (not patented) are dangerously deficient in this respect, Frandsen says.

By using structural angles with the long legs horizontal and the short legs vertical, the Angle-Tee-Joists, the inventor claims, obtain a greater lever arm for the resisting forces than if round bars were used and also acquires greater lateral stiffness.

The manufacturing process is modern. By applying the latest spot-welding machines every weld will be of uniform and reliable strength.

Before proceeding to sell the joists

together the machines will be adjusted so that when the fusing temperature is just right, the electric current will be shut off by the electromechanical control, i. e., the welds will never be heated too little or too much, Frandsen says. They will be just as standardized as the rivets driven by a bull-riveter. The personal judgment of correctness is eliminated.

The cost of welding a joist together, Frandsen claims, is less than half of what it now costs by the arc-welding and puddling of surface edges as



R. M. FRANDSEN

now commonly used. Two men will now be able, by means of the most modern spot-welding machines, to make just as many joists per day as eight men now can weld with the present method.

Mr. Frandsen desires independent manufacturers in every state in the Union for making and placing his new joists. He hopes that by making an improved steel joist for less cost, he will increase the use of structural steel in preference to reinforced concrete or wooden joists. He expects the greatest sale will be in the East, where steel is cheaper and wood more expensive than on the Pacific Coast.

and foresight of the individual engineer. As no two engineers have these qualifications to the same degree, their services are not subject to a specification capable of definite measurement under competitive bidding. Competitive bidding under these circumstances immediately raises the question of the ethical status of the bidder toward his fellow engineers, his prospective client and the interest of the general public.

"When an engineer enters into competitive bidding for engineering services it is almost sure evidence that he is going to bid less than the usual fee charged by him for the services in question, otherwise he would probably not enter the competition, for he knows that the engineer submitting the lowest bid is most likely to get the work. The minute he reduces his fee he is undermining the fee schedule of his fellow engineers. Furthermore, he knows that he cannot afford to give the same degree of service to his client under the fee bid that he would were he getting his usual fee for the work. Consequently, his client will be the loser. The harm does not stop here, but reaches out to the general public. The public is indirectly most vitally interested in the type of engineer selected for public improvement work. It must through taxation raise the funds required to finance the improvement and it is, therefore, interested in seeing that the improvement work is done in the best and most economical manner. If such improvement work is not properly engineered due to a lack of proper compensation for the necessary engineering services, the public will be the loser. From no angle can we see where competitive bidding for engineering services is ethical on the part of the engineer entering into such competition or fair to the general public interested in the improvement to be done.

"It is refreshing indeed to Professional Engineering to know that the Arizona engineers have not yet fitted to repudiate the moral and professional obligations they assumed on entering the profession of engineering."

CANADIAN STANDARDS FOR STRUCTURAL STEEL

A new edition of the "Standard Specifications for Steel Structures for Buildings," published by the Canadian Engineering Standards Association, is now ready for issuance.

Among other changes noted in this second edition of the standard are those which increase permissible unit stresses; and particularly the permissible unit stress for axial tension, which is raised from 16,000 lb. (7.14 tons) per sq. in. to 18,000 lbs. (about 8 tons) per sq. in. Other notable revisions are those in the column formula and for standard allowances for snow load and for wind load on roofs.

Copies of the standard may be purchased through the American Standards Association, 20 W-39th St., New York City.

INCORPORATES

Transit Concrete, Ltd., has filed articles of incorporation with the county clerk in Oakland. Incorporators are: K. L. Kavanagh, L. Callagher, R. Green, M. D. Ehrhardt, A. Hourtane, C. F. Shaw and E. Scammon, all of San Francisco. Capital 5000 shares preferred and 75,000 shares common stock, no par value.

ETHICS VS. COMPETITIVE BIDDING AMONG ENGINEERS

"Of late there has been an increasing tendency on the part of municipal officials, the country over, to call for competitive bids for engineering services on contemplated public improvement work," says Charles J. Ulrich, engineer and lawyer, editorially in the August issue of Professional Engineer, just published.

"The latest call," continues Mr. Ulrich, "for such competitive bidding came from Phoenix, Ariz. It may, however, be said to the credit of Phoenix engineers that they not only discountenanced such a move on the part of the city officials, but also succeeded in convincing them of the unfairness and unethicness of such a procedure with a result, we are informed, that the city officials will select an engineering firm for the work contemplated and pay the usual fee charged by such firm for its en-

gineering services.

"Competitive bidding for engineering services involves the ethics of the profession. Ethics in its broad sense constitutes a code of professional obligations. It is the moral foundation of the profession. It lays down the professional rules of conduct not only as between engineers, but also as between engineers and their clients and between engineers and the general public.

"In competitive bidding for engineering services on public improvement work all three of aforesaid parties are concerned. Strictly speaking, the principle of competitive bidding is possible only under a specification that in bidding is capable of definite measurement. The extent of engineering services rendered on any project depends largely on the training, experience, judgment, initiative

RESTORE PUBLIC CONFIDENCE, SAYS HOOVER'S HOME COMMITTEE

Sound Systems for Making Appraisals—Grading Construction Merit of New Structures—Stabilizing Credit Practices—Adoption of Uniform Lien Law—Introduction of Systems for Conducting Cooperative Promotional Campaigns to Accelerate Sound Construction Projects—Recommendations of Committee.

Restoration of public confidence in home building and buying through the placing of the financing, designing and constructing of homes on a sound and practicable basis is the keynote of a comprehensive program now being considered by President Hoover and the planning committee of the White House Conference on Home Building and Home Ownership, the details of which were made public by A. E. Horst, of Philadelphia, a member of the committee and president of the Associated General Contractors of America.

Mr. Horst, who personally presented the plan two weeks ago at the White House, set forth its details in his report to the executive board of the Associated General Contractors at the opening of its three-day meeting at Rye, N. Y.

The program presented by Mr. Horst outlines definite procedure to accomplish seven different reforms which he claims have long been needed by the entire construction industry and particularly by its residential construction section. His recommendations embrace the establishment of

Sound systems for making appraisals;
Grading the construction merit of new structures;

Examining residences under construction and reporting on the merit of the construction methods;

First and second mortgage financing
Stabilizing credit practices;

Adoption of a uniform lien law;
Introduction of systems for conducting local cooperative promotional campaigns to accelerate sound construction projects.

Members of the planning committee are taking the program under advisement, Mr. Horst told the board, and if found acceptable it is thought probable that a mandate will be issued to joint committees of representatives of all business interests directly concerned and that they will be invited to fight the questions out until detailed plans sanctioned by all groups are devised, and programs for establishing the plans are worked out and put into operation. The chief function of the planning committee, under Mr. Horst's program, would be to see that its recommendations are not pigeon holed or dropped and that the joint committees conscientiously take up their tasks to the end that the reformatory measures may be put into operation.

Taking the first point in his program, Mr. Horst pointed out that the appraisal set on a contemplated building or on one already constructed is the basic factor on which all subsequent financing and construction operations rest. He stated in eleven separate indictments that the present haphazard system of appraisals is unsound, encourages irresponsibility and is a primary factor in preventing first and second mortgage and other construction paper from being acknowledged as the soundest form of security subject to banking discount.

In outlining the ways and means to establish a sound appraisal system, Mr. Horst told the President's planning committee that it could be devised through the cooperation of responsible financial agencies, responsible architects, responsible real estate firms and responsible contractors and builders and that such a system

could be placed in operation on a local, regional and national basis.

He recommended the joint establishment of appraisal and construction inspection bureaus in every city or construction center of the United States; the setting up of high professional standards to govern such bureaus; and the making of their operations independent of the expediences of all groups within the industry. The bureaus would be financed through a moderate fee charged against financing cost instead of the present sometimes exorbitant fees charged for investigation and appraisals, and copies of each appraisal report would be made available to the public upon payment of a nominal fee.

Classes of construction would be standardized under the plan on a basis of excellent, medium and poor specifications and workmanship, and each project would be graded within the class to which it belongs, such as Class A, Class B and Class C. Sound practices could then be developed among financial agencies for making first mortgage loans of high percentages of the bureaus' appraised valuation on structures rated as Class A; for moderate percentages on construction rated as Class B; and for low percentage on Class C projects, Mr. Horst said.

Provision would be made for inspecting projects underway and determining that plans and specifications were not being violated, and allowance would be made for the merit of the design and the performance record of the contractor when establishing the final appraisal valuation, he explained. If, on the other hand, it was found that specifications were being seriously violated and the structure injuriously cheapened, either the classification, appraisal valuation or both could be reduced.

The plan contemplates the development and maintenance of such standards in making appraisals that the bureaus' estimates of value would be above suspicion and would carry the weight of authority with financial agencies, the courts, investors in construction securities and with the home-building and home buying public. Agencies that refused to cooperate with the bureaus would be refused appraisals and rating reports on the projects that they finance, and competition between financial agencies would be confined to their willingness to loan on a greater or less percentage of appraised value, within certain percentage brackets established for the three classes of construction.

It is maintained by Mr. Horst and several members of the executive board of the Associated General Contractors that the establishment of such bureaus would put construction appraisals on a sound basis; would enable the prospective owner or purchaser of a structure to know within narrow limits the merit or demerit of a project; and would serve to straighten out the entire financial tangle that at present tends to put construction paper in the same class as the most spectacular of speculative investments.

The representations for establishing an economical and sound system of second mortgages are based on first setting up a sound procedure for making appraisals and for writing first lien paper. It was contended by Mr.

Horst that the operation of such appraisal and inspection bureaus would make possible the launching of well-financed, skillfully managed second mortgage corporations committed to a policy of rendering service at nominal costs to home owners and builders.

The planning committee was told, Mr. Horst reported, that the present lack of appraisal standards, makes it difficult to distinguish between sound and unsound paper and consequently all secondary paper must bear the brunt of the losses which occur thru the activities of irresponsible elements in the construction industry.

Development of local credit information bureaus now underway by the Associated General Contractors and other groups through the Allied Construction Industries of America will make it possible to supply accurate credit information and data on the personal integrity of all prospective bidders and buyers of constructed buildings and to provide such other specialized credit data as a properly organized second mortgage finance corporation would require, Mr. Horst pointed out.

The Bureau of Contract Information, Inc., a cooperative fact finding body at Washington, is now in a position to furnish information as to the performance records of several thousand contractors and builders and will soon be able to supply reports on the performance records of all contractors and builders in the United States, Mr. Horst said. The credit standing of each individual buyer of construction materials or equipment will be available to the mortgage companies and the credit structure being created will limit delinquencies and serve both second and first mortgage companies in avoiding bad risks.

The necessity for establishing the soundness of construction paper of all kinds so that it can be readily discounted at any bank and be suitable collateral for rediscount through the Federal Reserve System likewise was stressed in recommended procedure looking toward this end. Mr. Horst believes that bankers can not be blamed for their attitude toward construction paper, since the industry has provided no definite procedure for establishing its real worth, but he contends that the support of bankers and other financial agencies would expedite the establishment of a procedure which would supply it with that stability which should be an inherent quality of securities based on collateral of such permanent and essential worth.

With a sound appraisal and inspection system and with a sound credit structure operating within the construction industry, the value of any piece of construction paper ought to be readily ascertainable; should be acceptable at all banks as the soundest type of basic security; and should be provided for in the rediscount provisions of the Federal Reserve System, he said.

The plan also recommends revision of state lien acts in conformity with the principles worked out by the Standard State Mechanics Lien Act Committee of the Department of Commerce, and urges the marshalling of support for the existing provisions of the draft of the proposed uniform lien act as presented to the Conference of Commissioners of Uniform Laws, last August, at Chicago.

The planning committee which is headed by Secretary of Commerce Robert P. La Follette and of which John M. Giles, chief of the division of building and housing, Department of Commerce, is the executive secretary, has been urged, Mr. Horst reported, to investigate all of the recommendations and to work out the details of

ways and means for the launching of these much needed reforms in the construction industry.

The executive board of the Associated General Contractors unanimously approved the program as presented by Mr. Horst at the White House, and will take up for consideration a proposal to create a residence builders section within its organization.

"Reports from various quarters of the city to the Oakland Real Estate Board indicate an increasing demand for housing and floor space and we believe a gradual advance in building activity is now justified," says Fred T. Wood, president of the Oakland Real Estate Board.

"An occupancy survey now being organized will establish actual facts with regard to occupancy.

"It is to be hoped that building will not be undertaken without ample investigation, as it might result in a surplus as did the abnormal activity which culminated in 1926 and from which all builders, realtors and rental property owners have been suffering since. It seems probable that a fairly normal balance between supply and demand in many types of buildings now exists."

An appeal to the national officers of the American Federation of Labor to use their influence to prevent the employment of alien labor in the construction of the works at the Boulder Dam has been made by the Nevada State officers of the organization. The request is signed by George Townsend, president, and Lillie B. Clindinst, secretary of the Nevada Federation of Labor and was telegraphed to William Green, president of the American Federation. It requests the latter to use its efforts to obtain "national legislation to have American citizens only employed on construction work," and says that further employment of foreign labor there should be discontinued.

Replying to the wire of the Nevada Federation President Green said:

"The complaint which you make in your telegram regarding the employment of cheap foreign labor at Boulder Dam will be given our personal attention. We will do everything we can to assist you."

Nevada officers of the federation say that inasmuch as the works will be built by the government the officials of Nevada are powerless to prevent the employment of aliens and that such employment can only be stopped by national legislation.

BIDS ASKED FOR PASADENA MUNICIPAL AUDITORIUM

Bids will be considered by the Pasadena city council on November 24 to erect the proposed civic auditorium and exhibition hall. The cost is estimated at \$1,050,000. Separate bids will be considered on the general contract, plumbing, electrical work, heating and ventilating, elevators, chairs, art work and decorating and an asbestos curtain.

The structure will be of Class A construction, steel frame and concrete, with an auditorium 156 by 250 feet and exhibition hall 115 by 150 feet. Plans provide for concrete slab floors and roof, tile and composition roofing, steel and wood sash and cast stone and plaster exterior.

Associated architects Edwin Bergstrom, Los Angeles, and Bennett & Haskell, Pasadena, prepared the plans.

WILL PROTEST UNLAWFUL IMPORT OF RUSSIAN LUMBER

Although the short selling of wheat by Russian government agency in the Chicago market is the latest evidence of the unrest caused in American industry by Soviet activities, it is learned that the lumber industry is not content with what it considers a failure to enforce existing laws applicable to imports which are in unfair competition with domestic products.

The National Lumber Manufacturers Association is preparing to make a formal request that unlawful imports of lumber be rigidly prohibited in accord with the decree of Congress.

These provisions include Section 307 of the Tariff Act, which excludes the products of convict-labor; Section 363, providing for countervailing duties on imported merchandise which has had the benefit or a direct or indirect bounty or grant from a foreign government; Section 337, which authorizes penalty duties or embargo on articles distributed under unfair competitive methods; the extra, or anti-dumping, duties provision of the tariff laws (Sec. 304 of the act of 1921); and Section 304 of the 1930 act, which requires the marking of imported articles in legible English words with the name of the country of origin.

Wilson Compton, secretary and general manager of the National Lumber Manufacturers Association, has formally submitted to Seymour Lowman, assistant secretary of the treasury, the contention of the American lumber industry that sufficient evidence has already been submitted to "justify the treasury department,

in the absence of authentic counterproof, in regarding all shipments of lumber from the Russian White Sea area as having been produced in part or whole by convict labor."

In a review of the situation to the Board of Directors of the National Lumber Manufacturers Association, Dr. Compton enumerates the specific evidence that has been submitted to the Treasury department in regard to the use of convict labor in North Russian lumber operations in areas from which lumber is being shipped to the United States.

G. D. Whitfield, an English newspaper correspondent testified from personal observation that convict labor is used also in the Vladivostok area. From similar personal observation he testified that the lumber mills in the Archangel district are entirely operated by convicts, except for foreman and superintendents. He says also that convicts are employed in the logging operations. The Treasury department has the statements of a number of sailors who assert that convicts are used to load ships at Archangel, and these statements are endorsed by Whitfield from personal observation. It is further stated that four escaped prisoners now in Norway have reported to Norwegian officials that they were employed in lumbering operations in Russia. Statements have been procured from them through consular sources. There is a considerable amount of other evidence of a miscellaneous nature. Moreover, it is known that the State Department has recently secured important undisclosed information.

FACE BRICK WALLS COST MUCH LESS THAN LIMESTONE

Now that dollars are counting again the cost of very item in building construction is being scrutinized much more closely than was usually the case a year or two ago. This renewed desire to keep the costs down should work out to the advantage of face brick in the field of large buildings, as there is no question of suitability for such construction, and a recent study has shown that in general a limestone facing costs approximately three times as much as one of face brick, says the publication, Permanent Color.

This important saving, plus the growing interest in face brick on account of modern tendencies toward the unusual in color treatment, promises to bring face brick a larger share of facing business.

The comparative cost survey referred to was made in Chicago, and the figures given below apply only to that city, but it is believed that the ratio of three to one applies quite generally between the cost of the standard limestone exterior and one of face brick. This of course applies only to the four-inch facing, as the total wall costs naturally vary less than facing costs alone.

Three competent estimators for large contracting firms submit the following costs per square foot of wall on large buildings faced with brick:

4-in. exterior only (\$30 face brick) No. 1, \$.64%; No. 2, \$.65%; No. 3, \$.64.
12-in. wall (\$30.00 face brick) with common brick backing No. 1, \$1.10; No.

2, \$1.12; No. 3, \$1.08.

The same estimators submit the following cost of erecting walls of large buildings faced with limestone:

4-in. gray select limestone, only, No. 1, \$2.10; No. 2, \$2.67; No. 3, \$2.04.

12-in. wall select gray limestone with common brick backing, No. 1, \$2.72; No. 2, \$2.42; No. 3, \$2.31.

The above estimates include the cost of trim.

It is estimated that the cost of face brick walls, with common brick backing, constitutes from 4 to 4% of the total building cost whereas the wall cost in the same type of building where faced with select gray limestone will be from 8½ to 10 per cent of the total building cost. Cost of windows is taken into account in these figures.

Estimated cost per cubic foot of large buildings faced with face brick and backed with common brick are 60c, 62.5c and 58.3c, respectively, or an average of 60.3c. Estimates of cost per cubic foot of large buildings faced with limestone and with common brick backing are 62c, 65c and 61.7c, respectively, or an average of 62.9c.

Like everything else that moves to market nowadays, face brick must be intelligently and aggressively sold if it is to meet competition. Dealers' salesmen should be familiar with the comparative costs of various materials in place, and copies of the detailed report on this survey will be sent free upon request for salesmen's use.

Building News Section

APARTMENTS

Plans Being Completed.
APARTMENTS Cost, \$250,000
LOS ANGELES, Cal. SE Fifth and
Oxford Streets.
Nine-story and basement reinforced
concrete apartments.
Owner—Louis Goldfarb.
Architect—Arthur I. Rouda, Lissner
Bldg., Los Angeles.

Plans Prepared.
APARTMENTS Cost, \$200,000
LOS ANGELES, Cal. E Menlo bet.
10th and 11th.
Five-story and basement class B re-
inforced concrete apts. (178-46-ft.;
122 rooms).
Owner—Mable L. Smith.
Architect—W. D. Lee, Textile Center
Bldg., Los Angeles.

Owner Taking Segregated Bids.
APARTMENTS Cost, Approx. \$18,000
OAKLAND, Alameda Co., Cal. Park
Bld.
Two-story and basement frame and
stucco apartments.
Owner—H. E. Lansing, % Architect.
Architect—F. H. Slocombe, 62 York
Drive, Piedmont.

Plans Being Completed.
APARTMENTS Cost, \$60,000
SAN FRANCISCO. Forty-fifth Ave.
and Geary St.
Three-story and basement frame and
stucco apartments (15 3-room apts.)
Owner and Builder—M. P. Storheim,
475 Euclid Ave., San Francisco.
Plans by Lawrence Ebbets, 320 Ful-
ton St., San Francisco.
Will have steam heating system, tile
roof and elevator.

To Be Done By Day's Work.
APARTMENTS Cost, \$45,000
OAKLAND, Alameda Co., Cal. N 34th
St. E Grove.
Three-story and basement frame and
stucco apartments (42 rooms).
Owner and Builder—Edward C. Gil-
bert, 581 33rd St., Oakland.
Architect—F. H. Slocombe, 62 York
Drive, Piedmont.

Plans Being Revised.
APARTMENTS Cost, \$175,000
SAN FRANCISCO. Green Street near
Octavia Street.
Six-story Class A steel frame and
concrete apartments (112 rooms).
Owner and Builder—F. L. Hansen, 282
Seventh St., San Francisco.
Engineer—John C. Little & Co., 251
Kearny St., San Francisco.
Revised plans will be completed in
two or three weeks.

Plans Being Prepared.
APARTMENTS Cost, \$450,000
LOS ANGELES, Cal. Fourth and
Berendo Streets.
Eleven-story and basement Class A
reinforced concrete apartments
(50 apts.)
Owner—James Irvine and Grace
Harold
Architect—Walker & Eisen, Western
Pacific Bldg., Los Angeles.

Preparing Working Drawings.
APARTMENTS Cost, \$250,000
SAN MATEO, San Mateo Co., Cal.
Location Withheld.
Six-story and basement Class C steel
frame, brick and concrete apart-

ments (21 2, 3, 4, 5, 6 7, and 8-
room apts.)
Owner—Withheld.
Architect—Willis Lowe, 354 Hobart
St., Oakland.
Bids will be taken in thirty to sixty
days.

Specifications Being Written
APARTMENTS Cost, \$20,000
EMERYVILLE, Alameda Co., Cal.
One-story and basement frame and
stucco apartments (six 4-room
apts.; Spanish type.)
Owner—Mrs. O. H. Reese.
Architect—George Ellinger, 1723 Web-
ster St., Oakland.
Bids will be called for shortly.

Carpentry Contract Awarded.
APARTMENTS Cost, Approx. \$18,000
OAKLAND, Alameda Co., Cal. Park
Bld.
Two-story and basement frame and
stucco apartments.
Owner—H. E. Lansing, % Architect.
Architect—F. H. Slocombe, 62 York
Drive, Piedmont.
Carpentry—M. P. Rose, 6329 Shattuck
Ave., Berkeley.
Bids are being taken on other por-
tions of the work.

Owner Taking Figures.
APARTMENTS Cost, \$200,000
LOS ANGELES, Cal. SW Beverly
Blvd. and Gramercy Place.
Nine-story and basement Class A re-
inforced concrete apartments (52
by 114 feet).
Owner—Stanley Gawecki, 6102 Saturn
Ave., Los Angeles.
Architect—Leland A. Bryant, 6513
Hollywood Blvd., Los Angeles

Plans Being Completed.
APARTMENTS Cost, \$130,000
LOS ANGELES, Cal. Romaine St.
and Alexandria Ave.
Four-story Class C brick apartments
(123x58 feet).
Owner—Jue Everett.
Architect—E. B. Rust, Wilshire Pro-
fessional Bldg., Los Angeles.
Contractor—A. J. Showalter, 4637 W.
18th St., Los Angeles.

Sub-Contracts Awarded.
APARTMENTS Cost, \$60,000
SAN FRANCISCO. Haight & Steiner
Streets.
Five-story steel frame and concrete
apartments (22 apts.)

A Demonstration of the SKILSAW PORTABLE ELEC- TRIC HAND SAW

Will solve your cutting problems.
(Four Models, 1/2 to 1 h. p.)

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ELECTRIC DRILLS
GRINDERS, BUFFERS

PETER H. NELSON

Labor Saving Portable Electric
Tools.

1248 Mission St.
San Francisco

Underhill
7662

Owner—Mrs. L. Hagmaler, 222 Fill-
more St., San Francisco.
Architect—Bliss & Fairweather, Bal-
boa Bldg., San Francisco.
Contractor—H. S. Meisberger, 343 4th
St., San Francisco.
Structural Steel—McClintie Marshall
Co., 2350 Bryant St., San Francisco
Reinforcing Steel—Gunn, Carle & Co.,
444 Market St., San Francisco.
Other awards will be made shortly.

Sub-Bids Being Taken From Select-
ed List of Contractors.
APARTMENTS Cost, \$150,000
OAKLAND, Alameda Co., Cal. Cres-
cent Ave. near Santa Clara.
Three-story frame and stucco apart-
ments with Class C concrete gar-
rage.
Owner and Builder—R. E. Mayer, 1129
McKinley St., Oakland.
Architect—Douglas Stone, Great
Western Power Bldg., Oakland.

Completing Plans.
APARTMENTS Cost, \$—
LOS ANGELES, Cal. No. 470 N.
Rossmore Avenue.
Thirteen-story and basement Class
A reinforced concrete apartments
(150x135 feet).
Owner and Builder—Harry Feigen-
baum, Union Bank Bldg., L. A.
Architect—Max Maltzman, Union Bk.
Bldg., Los Angeles.

Sub-Contracts Awarded.
ALTERATIONS Cost, price, \$26,553
SAN FRANCISCO. Sutter and Jones
Streets.
Alterations to sixth floor of apts
Owner—University of California, Berk-
eley.
Plans by Eng. Dept. of Owner.
Contractor—D. L. Bientfeld, 334 30th
Ave., San Francisco.
Wall Beds—Marshall & Stearns Co.,
Phelan Bldg.
Wood Stairs—L. S. Peltrano, 60 13th St.
Tile—Meda Art Tile Co., 1735 San Bru-
no Avenue.
Brick Work—Harry Drake, 666 Mis-
sion Street.
Terra Cotta—Gladding, McBean & Co.,
660 Market St.
Ornamental Iron—C. J. Hillard Co.,
Inc., 19th and Minnesota Sts.
Roofing—Alta Roofing Co., 976 Indiana
Street.
Painting—Chas. Gordon, 666 Mission.
Plumbing and Heating—Herman Law-
son, 465 Tehama St.
Lumber—Sudden Lumber Co., Evans
and Quint Sts.
Electric Wiring—Frank Goodman, 350
Walker St.
Elevators—Otis Elevator Co., 1 Beach
Street.
Glass—W. P. Fuller Co., 301 Mission
Street.

Plans Being Completed
APARTMENTS Cost, \$40,000
SAN MATEO, San Mateo Co., Calif.
Bayview Heights
Two-story and basement frame and
stucco apartments.
Owner—E. I. Warren, Los Angeles.
Plans by Carl Schuetz, 1125 The High-
way, Redwood City
Segregated bids will be taken next
week.

Plans Being Revised
APARTMENTS Cost, \$10,000
BELMONT, San Mateo Co., Cal.
Two-story and basement frame and
stucco apartments.
Owner—Mrs. Talbee,
Plans by Carl Schuetz, 1125 The High-
way, Redwood City.
Bids will be taken next week.

Plastering Contract Awarded.
APARTMENTS Cost, \$175,000
 SAN FRANCISCO. NE Buena Vista Ave. and Waller St.
 Six-story class C basement and sub-basement apartments (36 two- and three room apts. and one 10-room apartment).
 Owner—Sunacal Investment Company.

Architect—Albert H. Larsen, 447 Sutter Street.
 Contractor—Mission Concrete Co., 270 Turk Street.

Plastering—Chris Berg, 719 45th Ave.
 As previously reported reinforcing steel awarded to W. S. Vetenhall, 17th and Wisconsin Sts.; steel forms to Steelform Contracting Co., Monadnock Bldg.

BONDS

SANTA CRUZ, Santa Cruz Co., Cal.
 Third election held in the Laguna School District to vote bonds of \$8,000 to finance erection of a new school, failed to carry. 38 votes being in favor and 24 against. A two-thirds majority is required. The trustees now contemplate remodeling and adding to the present structure to meet the needs of the district.

ALTURAS, Modoc Co., Cal.—Until Nov. 3 bids will be received by county supervisors for the purchase of the \$2,000 bond issue of the Willow Ranch School District; proceeds of the sale to finance school improvements.

CHURCHES

Plans Being Completed.
CHURCH Cost, \$20,000
 EUREKA, Humboldt Co., Cal.
 One-story redwood church (Colonial type).

Owner—First Methodist Church.
 Architect—Rollin S. Tuttle, Box C, Los Gatos.
 Bids will be taken next week.

Preliminary Plans Being Prepared.
CHURCH Cost, \$6500
 WILLOWS, Glenn Co., Cal.
 One-story frame and stucco church.
 Owner—First Church Christ Scientist Willows.
 Architect—Otto Deichmann, 110 Sutter St., San Francisco.

Plans Being Prepared.
CHURCH Cost, \$25,000
 ROSEVILLE, Placer Co., Cal. Jones and Main Sts.

New church (75x140-ft.; to seat 220).
 Owner—Methodist Episcopal Church, H. W. O'Kane, pastor, 109 Washington St., Roseville.

Architect—Charles D. Dean, California State Life Bldg., Sacramento.
 A drive for funds is now under way. Will contain recreational hall, stage, kitchen and pastor's study.

Plans Being Prepared.
CHURCH Cost, \$60,000 (including \$10,000 for furnishings).
 LINDSAY, Tulare Co., Cal. North Elmwood Street.

Church building.
 Owner—First Baptist Church.
 Private Plans.

Will have Spanish exterior with Gothic-Cathedral interior; L-shape; auditorium to seat 250 exclusive of gallery. An educational unit will also comprise a part of the structure.

FACTORIES AND WAREHOUSES

Sub-Bids Wanted.
ALTERATIONS Cost, \$20,000
 SAN FRANCISCO 2900 Mariposa Ave.
 Alterations and additions to warehouse.
 Owner—Western Paper Stock Co., 2710 16th Street.

Architect—Eng. Dept. of Owner.
 Contractor—Spivock & Spivock, Hobart Bldg.

Sub-bids are wanted on all portions of the work excepting linoleum, which is furnished by owners, and the painting, which will be done by general contractor.

Plans Being Figured—Bids Close Nov. 15, 2:30 P. M.
WAREHOUSE Cost, \$—
 SAN FRANCISCO. Fifteenth and Harrison Streets.

First unit of 2-story reinforced concrete central storage warehouse (flat sla beam construction).

Owner—City and County of San Francisco.

Architect—Dodge Riedy, Pacific Bldg.

Bids are wanted for:
 (a) General contract, estimate cost \$75,000; bond of \$18,750 required of successful bidder. Deposit of \$15 required for plans.

(b) electric work, estimated cost \$7,500; bond \$1,875; deposit for plans \$10.

(c) Plumbing, estimate cost \$4,500; bond \$1,125; deposit for plans \$10.
 Plans are obtainable from the Bureau of Architecture, 2nd floor, City Hall.

Owner Taking Bids.
FACTORY Cost, Approx. \$14,000
 SAUSALITO, Marin Co., Cal.

One-story reinforced concrete boat and motor factory.

Owner—Italian American Motors Co., Inc., 604 Montgomery St., San Francisco.

Plans by McFarland & Moore, 126 Otis St., San Francisco. (Market 5400)

Owner Will Erect By Day's Work.
FACTORY Cost, \$—
 STOCWTON, San Joaquin Co., Cal.

North Wilson Way.

Fireproof factory.
 Owner—La Tournneau Mfg. Co., Moss St., Stockton.

Plans by Eng. Dept. of Owner.
 The La Tournneau Mfg. Co. manufactures road building equipment. Construction will be started within ninety days. The company will employ its own shop forces in construction.

Plans Completed.
ALTERATIONS Cost, \$—
 SAN FRANCISCO. Courtland Ave. and Bradford St.

Remodel building for mattress factory.
 Owner—Rutherford & Hood, 2760 Army St., San Francisco.

Architect—Withheld.
 Contractor—Withheld.

Eids Opened—Held Under Advertisement
FACTORY Cost approx. \$50,000
 SAN FRANCISCO. 11th and Howard Streets.

Three-story and basement reinforced concrete factory.

Owner—Stella Bros., 1470 Howard St.
 Architect—Louis Mastropasqua, 550 Washington St.

Plans Being Figured.
ADDITION Cost, \$25,000
 EMERYVILLE, Alameda Co., Calif.
 Peladeau and Powell Sts.

One-story brick and steel addition to present factory.

Owner—Westinghouse Electric Co. premises.

Plans by Eng. Dept. of Owner.

GARBerville, Humboldt Co., Cal.
 —McCarthy & Johanns, 1363 14th Ave., San Francisco, at \$10,648 submitted low bid to F. W. Haselwood, district engineer, State Highway Commission, Eureka, to erect maintenance station at Garberville, to consist of a superintendent's cottage, office and store house, bunk house, combination woodshed and garage,

gasoline and oil house, septic tank and station sign. Taken under advisement.

IDLEWILD, Del Norte Co., Cal.—Oliver S. Almie, 709 North Fifth St., Grants Pass, Oregon, at \$13,868 submitted low bid to F. W. Haselwood, district engineer, State Highway Commission, Eureka, to erect maintenance station at Idlewild, consisting of a superintendent's cottage, bunk house, truck shed, combination woodshed and garage, gasoline and oil house, septic tank and station sign. Taken under advisement.

Structural Iron Contract Awarded.
INDUSTRIAL BLDG. Cost, \$15,000
 SAN FRANCISCO. SE Fifth and Folsom Streets.

One-story and mezzanine floor reinforced concrete industrial bldg.
 Owner—Louis Lurie, 513 Montgomery St., San Francisco.

Architect—S. Helman, 57 Post St., and O'Brien Bros. & W. D. Peugh, 2015 Montgomery St., S. F.

Contractor—Louis J. Cohn, 1 De Haro St., San Francisco.

Structural Iron—Schradner Iron Wks., 1247 Harrison St., San Francisco

As previously reported, electrical work awarded to W. H. Morgan, 2241 15th St., S. F.; plumbing to Thomas Skelly, 1344 9th Ave.; reinforcing steel and steel sash to Truscon Steel Co., Call Bldg., San Francisco.

Other awards will be made shortly.

Bids Opened.
SHOP BLDG. Cost, \$6000
 BERKELEY, Alameda Co., Cal. Allison Way and West Street.
 Shop building for Corporation Yard.
 Owner—City of Berkeley, Florence E. Turner, city clerk.

Architect—Not Given.
 Following is a complete list of bids:
 George A. Scott, 47 Oakvale, \$11,276
 Chas. D. Vezev & Son, Oakland 11,351
 Connor & Connor, Oakland 11,748
 T. D. Courtright, Oakland 11,850
 F. C. Stoltz, Oakland 11,980
 George Swanstrom, Oakland 12,155
 Thos. F. L. Furlong, Oakland 12,776
 Bids held under advisement.

Construction Under Way By Day's Labor By Owners.
MILL Cost, \$100,000
 FRESNO, Fresno Co., Cal. Industrial section bet. Fresno and Calwa.
 Sulphur mill.
 Owner—Sunland Sulphur Co., 2148 Inyo St., Fresno.

Plans by J. H. Wright, plant superintendent, 2148 Inyo St., Fresno.
 Officers of the company are: T. L. Harper president and principal owner; E. D. Erink, vice-president; B. H. Jones, secretary-treasurer, and J. H. Wright, superintendent and mill manager.

Site Purchased—Plans To Be Prepared.
WAREHOUSE Cost, \$—
 WATSONVILLE, Santa Cruz Co., Cal. Beach Road.
 Warehouse and distributing plant.
 Owner—Western Oil Refining Co. (Jos. L. Castor, Pacific Coast representative, 555 Berry St., S. F.)
 Architect Not Selected.

Bids Opened.
STATION Cost, \$—
 MARIPOSA, Mariposa Co., Cal. At Bear Creek, 9 miles east of Mariposa.

Highway maintenance station, comprising superintendent's cottage; truckshed, blacksmith shop, gasoline and oil house, septic tank, combination wood shed and garage and sewer line.

Owner—State of California.
 Plans by State Department of Public Works.

Following bids were received:
 Irwin & Hopkins, Fresno \$13,200
 Limer & Allen, Merced 13,929
 Biltrite Constr. Co., Berkeley 14,200

ROSEVILLE, Placer Co., Cal.—Following is a complete list of the bids received by the district engineer, Dist. III, State Highway Commission, 502 State Office Building, Sacramento, to erect truck shed and gasoline and oil house at Roseville:

Yoho & Dauker, Sacramento.....	\$3,900
Campbell Const. Co., Sacto.....	4,168
W. E. Truesdale, Sacramento.....	4,669
C. J. Hopkinson, Sacramento.....	4,697
Wilke Topper, Roseville.....	4,794
Henry Dewlin, Walnut Grove.....	5,000
G. E. McDaniels, Marysville.....	5,932

Bids held under advisement.

Contracts Awarded.
INDUSTRIAL BLDG. Cost, \$—
SAN FRANCISCO. SE Russ St. and Howard St.

Three-story reinforced concrete industrial building.
Owner—Eng-Skell Co., 203 Mission St. San Francisco

Engineer—A. C. Griewank, 203 Mission St., San Francisco.

Electrical Work—B. J. Doherty, 1725 Church St., San Francisco.

Reinforcing Steel—Concrete Engineering Co., 1280 Indiana St., San Francisco.

Bids are being taken on all other portions of the work.

As previously reported, plans may be figured by contractors at the office of Mr. Griewank.

Bids Opened.
STATION Cost, \$—

MARICOPA, Kern Co., Cal
Highway maintenance station comprising truck shed, combination wood shed and garage, gasoline and oil house, septic tank and station sign (move present superintendent's cottage to new location).

Owner—State of California.
Plans by State Department of Public Works.

Bids received were:
Peterson & Eissler, Bakersfield.....\$5990
Currie & Dulgar, Bakersfield..... 7045

Bids In.

WAREHOUSE Cost, \$50,000
SAN FRANCISCO. NW Carroll and Newhall Streets.
One-story steel frame and concrete warehouse (south side crane and runway).

Owner—Truscon Steel Co., Cal Bldg. Architect—Eng. Dept. of Owner.

Bids were received today by the San Francisco office and referred to their Eastern office to be opened and awarded. Announcement will probably not be made for about two weeks.

GARAGES AND SERVICE STATIONS

Plans To Be Prepared.
STATION Cost, \$—

SAN FRANCISCO. Twenty-second & Howard Sts. (100x100 ft).

Service station.
Owner—General Petroleum Co., 319 Sansome St., San Francisco.

Architect—Eng. Dept. of Owner.

Final Plans Approved.

GARAGE Cost Approx. \$30,000
BERKELEY, Alameda Co., Cal. Oxford Street.

Class C concrete garage and service station.

Owner—Regents of University of California, Berkeley.

Architect—W. H. Ratcliff Jr., Chamber of Commerce Bldg., Berkeley.

Lessee—Richfield Oil Company.

Bids will probably be advertised October 14, next Regents Meeting.

GOVERNMENT WORK AND SUPPLIES

SAN FERNANDO, Cal.—Until November 14, 11 A. M., bids will be received by Supervising Superintendent of Construction, U. S. Veterans' Hospital, Palo Alto, for installing quarry tile floors and base in Buildings Nos. 1, 2, 5 and 6 at U. S. Veterans' Hospital at San Fernando. This project involves removal of cement floor topping and base, equipment, etc., and prepare floors and walls to receive new quarry tile floors and base in kitchens, preparation rooms, store rooms, etc. Specifications obtainable from above.

PALO ALTO, Santa Clara Co., Cal.—Until November 5, 11 A. M., bids will be received by William H. Radcliffe, Supervising Superintendent of Construction, U. S. Veterans' Hospital, Palo Alto, to construct and finish complete rest room addition to Laundry Building No. 219 at Veterans' Hospital, Palo Alto. Plans obtainable from above.

RICHMOND, Contra Costa Co., Cal.—Until November 13, 3 P. M., bids will be received by U. S. Engineer Office, Customhouse, San Francisco, for dredging in Richmond Harbor. Project involves approximately 94,340 cu. yds. Specifications obtainable from above office.

Plans Being Figured—Bids Close Oct. 27, 10 A. M.

LAORATORY Cost, \$—
SEATTLE, Wash. On Lake Union at old canal right-of-way.

Two-story and basement brick and steel Fisheries Laboratory (45x125)

Owner—U. S. Government (Bureau of Fisheries).

Architect—Plans by Bureau.

Plans obtainable from Bureau of Fisheries, 832 Exchange Bldg., Seattle.

Sub-Bids Being Taken.
ADDITION Cont. price, \$12,217
SAN FRANCISCO. Letterman General Hospital.

One-story and basement reinforced concrete additions to nurses' dormitory.

Owner—United States Government.

Architect—Constructing Quartermaster, Fort Mason.

Contractor—Western Hardwood Floor Co., 21 Capistrano St.

As previously reported, plumbing heating and ventilating awarded to McCarthy & Johanns, 1363 14th St.

BOULDER DAM—See "Power Plants," this issue. Contract awarded for furnishing power in connection with Boulder Dam project. Awarded to Southern Sierras Power Company.

RICHMOND, Contra Costa Co., Cal.—Until November 13, 3 P. M., bids will be received by U. S. Engineer Office, Customhouse, San Francisco, for furnishing sand for making fill in Richmond Harbor. Project involves approximately 195,000 cu. yds. fill. Specifications obtainable from above office.

SAN DIEGO, Cal.—Robt T. Dawson, San Diego, at \$14,951 awarded contract by Bureau of Yards & Docks, Navy Department, Washington, D. C., to construct quay wall at Naval Base.

AMERICAN LAKE, Wash.—Until November 10, 11 A. M., bids will be received by Supervising Superintendent of Construction, U. S. Veterans' Hospital, Palo Alto, Calif., to install tile floors, base and wainscoting in

Buildings Nos. 2, 3, 4, 5, 6, 7, 16 and 17 at the U. S. Veterans' Hospital at American Lake. This work consists of preparing drawings to erect tile and installing non-skid vitrified tile floors and base for both showers and toilet rooms in the above buildings including the wainscoting in rooms 39 and 43 in building No. 2, and doing all cutting, patching, etc. Plans obtainable from above.

WEST LOCH, Oahu, T. H.—Proposal of the Bureau of Yards & Docks, Navy Department, Washington, D. C., to ask bids in the immediate future to construct a reinforced concrete wharf at West Loch, under Specification No. 0359, has been cancelled. The work will not be undertaken until some future date.

SAN FRANCISCO—Until October 24 10 A. M., under Schedule No. 928-31-94, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver 250 bronze or brass case padlocks, tumbler type, 200 1½-in. and 50 2½-inch.

SAN FRANCISCO—Until October 24 10 A. M., under Schedule No. 928-31-94, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver 8 step ladders, 10-ft., made of clear spruce lumber.

SACRAMENTO, Cal.—Until October 29, 3 P. M., under Circular Proposal No. 31-97, Specifications No. 2470, bids will be received by U. S. Engineer Office, California Fruit Bldg., for raising existing levee along the westerly side of Yolo By-Pass, beginning at a point about 0.9 mile southeasterly of "Yolano" station on the Sacramento Northern Railroad, and extending to the Pump House at the southeast corner of Reclamation District No. 2068. Plans obtainable from above.

PALO ALTO, Santa Clara Co., Cal.—Following bids received by Supervising Superintendent of Construction U. S. Veterans' Hospital, Palo Alto, for porch additions to Buildings Nos. 101, 102, 103, 111 and 113 at the Veterans' Hospital, Palo Alto. This work will include excavating and backfilling, re-seeding lawns, mass and reinforced concrete, reinforcing steel, cast iron vents, W. I. railings, woven wire grilles, built-up roofing, sheet metal work, cement plaster and stucco, carpentry and mill work, painting, glazing, hardware, electrical work.

George B. Moore, 531 Stanford	
Palo Alto.....	\$11,970
Carl N. Swensen, San Jose.....	12,400
F. C. Peake, San Francisco.....	12,400
David Nordstrom, Oakland.....	12,400
The Minton Co., Palo Alto.....	13,072
A. F. Anderson, Oakland.....	13,662
G. W. Williams Co., Ltd., Burlingame.....	14,192
Young & Horstmeier, S. F.....	14,900
Vogt & Davidson, S. F.....	15,433
Leonard Dioguardi, San Mateo.....	17,000

The San Francisco Wire and Iron Works, 53 Colton St., San Francisco, submitted the only bid on wire and iron at \$3,075

Bids held under advisement

STOCKTON San Joaquin Co., Cal.—Until October 20, 3 P. M., under Proposal No. 31-96, Specifications No. 2305, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, for clearing brush and trees from the area of Item 316 along the west bank of the San Joaquin River, on McDonald trail between Spud Island and McDonald pump, a distance of about 12 miles below Stockton. Specifications obtainable from above

PHOENIX, Ariz.—See "Machinery and Equipment," this issue. Bids wanted by U. S. Indian Service to furnish $\frac{1}{2}$ -ton motor truck with steel body.

SAN FRANCISCO—Until October 24, under Circular No. 11, bids will be received by Contracting Officer, Medical Section, Fort Mason, to furnish and deliver 100 square yards of rubber matting. Specifications obtainable from above.

MARYSVILLE, Yuba Co., Cal.—Hemstreet & Bell, Marysville, sublets contract to LeTourneau Manufacturing Co., 122 Moss Ave., Stockton, to construct 8700 lin. ft. levee on the Feather river. (This work for U. S. Engineer Office, California Fruit Bldg., Sacramento).

October 14, 1930
Plans Being Figured—Bids Close Oct. 21, 11 A. M.

REPAIRS Cost, \$—
SAN FRANCISCO. Fort McDowell. Repairs to dock.
Owner—U. S. Government.
Architect—Constructing Quartermaster, Fort Mason.

HAWTHORNE, Nevada—Bids will be asked in December by the Bureau of Yards and Docks, Navy Department, Washington, D. C., to construct mine filling structures in the magazine area of the Naval Ammunition Depot, now in course of construction. There will be nine structures in the group.

SACRAMENTO, Cal.—Until October 21, 3 P. M., under Order No. 2521-1711, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver Rio Vista, Solano County, 1000 C ft. wire rope, Warrington construction, regular lay, plow steel, type (1) U. S. Army Specs. No. 48-16, $\frac{1}{2}$ -inch dia., hemp center, 6 strands, 19 wires to strand. Rope in one piece on individual reel. Min. breaking strength 17,900 lbs.

SACRAMENTO, Cal.—Until October 20, 3 P. M., under Order No. 2520-1714, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver Rio Vista, Solano County, 5000 lbs. welding rods, $\frac{1}{4}$ -inch by 14-inches long in 50 lb. bundles. Further information obtainable from above.

Bids Opened.
REPAIRS Cost, \$—
SAN FRANCISCO. Ft. Winfield Scott. Repairs to Torpedo Wharf.
Owner—U. S. Government.
Plans by Constructing Quartermaster, Fort Mason.
Low Bidder—Healy-Tibbitts Const. Co., 64 Pine St., \$1,160.
Only other bids was submitted by Duncanson-Harrelson Co., at \$1,576. Bids under advisement.

SACRAMENTO, Cal.—Until October 20, 3 P. M., under Order No. 2514-1705, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver: 36 twist drills, straight shank; 12 half-round and 12 square bastard files; 2 sets of dies for Nat'l. Bolt Threading Machine; 1 Toledo Pipe Threading Device complete with dies, etc. Further information obtainable from above.

SAN FRANCISCO—Until November 5, 11 A. M., under Spec. No. 6252, bids will be received by Public Works Officer, 12th Naval District, 160 Harrison St., for repairs and replacements to Piers No. 1, 2 and 3 at U. S. Naval Receiving Ship, San Francisco, at Yerba Buena Island. Plans obtainable from above office on deposit of \$10,

returnable, checks for same to be made payable to Chief of the Bureau of Yards and Docks.

WASHINGTON, D. C.—Bids are being received by Bureau of Supplies & Accounts, Navy Department, Washington, D. C., to furnish and deliver miscellaneous supplies and equipment as noted in the following schedules, further information being available from the Navy Department Officer, 100 Harrison St., San Francisco:
Bids Open Oct. 28

Western yards, discharge horn for carbon-dioxide fire extinguishers, sch. 4237.

San Diego, 24 electric drills, sch. 4240.

Puget Sound, telephone talking motor generators and spares, sch. 4249.

Mare Island, 10 40-gal. capacity aluminum steam jacketed kettles, sch. 4259.

Mare Island, 160 dish-washing machine basket, sch. 4258.

Western yards, snap switches and attachment plugs, sch. 4261.

Mare Island, sets portable electric pumps and spares, sch. 4223.

San Diego, 1 automatic screw machine, sch. 4279.

San Diego, 4 tool grinders, sch. 4294
Puget Sound, steel shapers, sch. 4268.

Mare Island, 20,000 lbs. steel angles, sch. 4266.

San Diego, 1 planer and joiner, sch. 4291.

Plans To Be Prepared.
ADDITION Cost, \$150,000
SAN FRANCISCO.

One-story addition and remodel present Appraisers' Building.
Owner—U. S. Government.
Architect Not Determined.

Funds to finance this work are yet to be appropriated. It has not been determined whether the plans will be prepared by the Supervising Architect, Treasury Department, at Washington, or by the Pacific Coast representative for that office, Mr. Arthur Newman, Postoffice Bldg., San Francisco.

HALLS AND SOCIETY BUILDINGS

To Be Done By Day's Work.
HALL Cost, \$8500
SAN FRANCISCO. SW Oakdale and Lane Sts.
One-story and basement frame and stucco hall.
Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St.
Architect—J. J. Foley, 770 5th Ave.

LINCOLN, Placer Co., Cal.—County Supervisors have provided \$10,000 to finance erection of a clubhouse for the American Legion. The city of Lincoln has donated a site for the structure.

Plans To Be Prepared.
MEMORIAL Cost, Approx. \$20,000
VACAVILLE, Solano Co., Cal.
One-story and basement Veterans' Memorial Building.
Owner—County of Solano.
Architect—Not Selected.

Bids To Be taken Next Week.
RECREATION BLDG.

Cost Approx. \$50,000
SAN JOSE, Santa Clara Co., Cal. W Santa Clara St.
One and one-half-story steel frame and brick recreation building.
Owner—C. H. Kamm.
Architect—W. H. Weeks, 111 Sutter St., San Francisco; 1736 Franklin St., Oakland, and Bank of Italy Bldg., San Jose.
Lessee—O. J. Forman, San Jose.

Plans Being Figured—Bids Close

Nov. 5, 10 A. M.
MEMORIAL BLDG. Cost, \$60,000
LIVERMORE, Alameda Co., Cal. SE Fifth and L Sts.

One-story reinforced concrete Veterans' Memorial Building (Spanish type).

Owner—County of Alameda.
Architect—H. H. Meyers, Kohl Bldg., San Francisco.
Auditorium will seat approximately 600.

Sub-Bids Wanted.
HALL Cost, \$8500
SAN FRANCISCO. SW Oakdale and Lane Sts.

One-story and basement frame and stucco hall.

Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.

Architect—J. J. Foley, 770 5th Ave., San Francisco.

Rev. T. Caschia, Pastor, is in charge of the contracts on premises.

Contract Awarded.
FURNISHINGS Cost, \$4173.47
ARCATA, Humboldt Co., Cal.
Furnishings for American Legion Memorial (floor coverings, drapes, etc.)

Owner—County of Humboldt.
Architect—Newton Ackerman, Fourth and Commercial Sts., Eureka.
Contractor—Brizard's of Arcata.

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Contract Awarded.

FURNISHINGS Cost, \$4180.20
FORTUNA, Humboldt Co., Cal.
 Furnishings for American Legion Memorial (floor coverings, drapes, etc.)

Owner—County of Humboldt.

Architect—Newton Ackerman, Fourth and Commercial Sts., Eureka.
 Contractor—Hunter-Hansen Co., Fortuna.

HOSPITALS

LOS ANGELES, Cal.—Until 2 P. M., Oct. 27, bids will be received by the county supervisors for furnishing special equipment for communicable diseases building at Los Angeles General Hospital. Specifications are on file at the office of the clerk of the board, Miss Mame B. Beatty, 303 Hall of Records. Karl Muck, county architect.

Contract Awarded.

ALTERATIONS Cost, \$6000
MODESTO, Stanislaus Co., Cal. No. 1005 L Street.

Alterations and additions to hospital (add several rooms, etc.)

Owner—McPeeters Hospital, 1005 L St., Modesto.

Architect—G. N. Hilburn, Elks Bldg., Modesto.

Contractor—H. J. Sorensen, Maze Rd., Modesto.

Kitchen Equipment Contract Awarded EQUIPMENT Cont. Price, \$18,114.65
PALO ALTO, Santa Clara Co., Cal. Stanford University Campus.

Furnish and install kitchen equipment in hospital.

Owner—City of Palo Alto, E. L. Beach, City Clerk.

Architects and Engineers—Reed & Corlett, 1301 Oakland Park Bldg., Oakland.

Kitchen Equipment—Dohrmann Hotel Supply Co., 972 Mission St., San Francisco.

Preliminary Working Drawings Being Prepared.

HOSPITAL Cost, \$250,000
COLUMBIA, Colusa Co., Calif. County Hospital Grounds.

One- and two-story reinforced concrete hospital (1-story wing and 2-story administration building).

Owner—County of Colusa.

Architect—Otto Deichmann, 110 Sutter St., San Francisco.

Only the first unit, having a 24-bed capacity, will be undertaken at this time. The structure, when completed, will have a capacity of 100 beds.

Construction Indefinitely Postponed.

SANITARIUM Cost, \$150,000
CALISTOGA, Napa Co., Cal. Slope of Mt. St. Helena.

Modern tubercular sanatorium (accommodations for 200 patients).

Owner—Calistoga Sanatorium.

Architect—E. E. Young, 2002 California St., San Francisco.

The purpose of this institution is the treatment of persons suffering from tuberculosis with a medicne compounded from the formula of E. T. Fowler, Ph. D., chemist and bacteriologist, who is president of the company. Other directors are: C. Howson, M. D., 3007 38th Ave., Oakland, medical director, and A. E. Hawkins, secretary.

Plans Being Completed.

SERVICE BLDG. Cost, \$100,000
SAN JOSE, Santa Clara Co., Cal.

Two-story reinforced concrete service building.

Owner—County of Santa Clara.

Architect—Binder & Curtis, 35 W. San Carlos St., San Jose.

Bids will be taken in three weeks.

Sub-Contracts Awarded.

HOME Cost, Approx. \$90,000
OAKLAND, Alameda Co., Cal. E Twenty-ninth St.

Two-story Class C concrete home for aged.

Owner—Salem Lutheran Benevolent Assn., Oakland.

Architect—Henry H. Gutterston, 526 Powell St., San Francisco.

Contractor—F. J. Westlund, 354 Hobart St., Oakland.

Grading—J. Catucci, 1212 18th Ave., Oakland.

Steel—McGrath Steel Co., 354 Hobart St., Oakland.

Bids are now being taken on concrete work.

TALMADGE, Mendocino Co., Cal.—Contemplate destruction at the State Home at Talmadge under the 1931 budget provides for a ward building costing \$32,500; custodial building, \$260,000; boiler, \$17,500; physicians' cottage, \$14,000; 1933—ward building, \$82,500; group for infirm male patients, \$60,000; apartment for clerks, \$60,000; laundry building, \$65,000; moving ward and razing old ward, \$6000; bakery, \$22,500; cottage for assistant physician, \$14,000. Plans for these improvements will be prepared by the State Department of Public Works, Division of Architecture, Public Works Bldg., Sacramento.

WEIMAR, Placer Co., Cal.—Yoho & Dager, Sacramento, at \$9700 awarded contract by Weimar Joint Sanatorium, Courthouse, Sacramento, to erect one story frame cottage for children at Weimar. Harry J. Devine, architect, 1400 California State Life Bldg., Sacramento.

Complete list of bids will be published shortly.

Low Bidder.
HOME Cont. price, \$34,100
SAN LUIS OBISPO, San Luis Obispo Co., Cal. Johnson Avenue.

Erick Detention Home (frontage 132-ft. with central section forward, 28-ft. with rear wing 36x36-ft., tile on sloping roof; asbestos shingles on flat roofs) and one-story frame health cottage (ten rooms, separate dining room).

Owner—County of San Luis Obispo.

Architect—Wm. Mosser, Monadnock Bldg., San Francisco.

Low Bidder—H. H. Larsen, 64 South Park, San Francisco.

Complete list of the bids received will be published shortly.

Contract Awarded. Cost, \$35,000
REMOLD OAKLAND, Alameda Co., Cal. Highland Hospital Grounds.

Remodel entrance to hospital.

Owner—County of Alameda.

Architect—H. H. Meyers, Kohl Bldg., San Francisco.

Contractor—J. J. Groden & Co., 1028 San Antonio Ave., Alameda.

Alterations are to provide a new en-

trance for receiving and discharging patients. Under the new arrangement the first floor of the "A" building will be used as a receiving ward and a corridor will connect the present receiving ward with the new one.

Following is a complete list of bids:
 J. J. Groden & Co., Alameda, \$34,985
 E. T. Lesure, Berkeley, 35,428
 Niles W. Place, Oakland, 38,872
 N. H. Sjolander, San Francisco, 39,993
 Geo. J. Staurer, Oakland, 40,989
 Geo. Swanson, Oakland, 41,461
 E. J. Westlund, Oakland, 43,840
 Schuler & McDonald, Oakland, 44,000
 E. T. Letter & Sons, Oakland, 45,737

WEIMAR, Placer Co., Cal.—As previously reported, Yoho & Dager, 2911 W St., Sacramento, at \$9,671 awarded contract by Weimar Joint Sanatorium, Courthouse, Sacramento, to erect one story frame cottage for children at Weimar. Harry J. Devine, architect, 1400 California State Life Bldg., Sacramento.

Following is a complete list of bids:
 Yoho & Dager, Sacramento, \$9,677
 W. L. Chatterton, 10,120
 S. H. Bell, 10,275
 Harry J. Robertson, 10,870
 L. H. Martin, 10,950
 Azevedo & Sarmento, Sacto., 11,000
 Lindgren & Swinerton, Inc., Sacramento, 11,226
 Wilke & Tropper, 11,378
 Chas. F. Unger, Sacramento, 11,729
 Wm. C. Keating, Sacramento, 12,390
 C. J. Hopkins, Sacramento, 12,397

HOTELS

Owner Taking Bids.
HOTEL Cost, \$40,000
REDWOOD CITY, San Mateo Co., Cal. Galnes Street.

Two-story brick hotel (30 rooms).

Owner—Sol Morris, NW Brewer and Hopkins Sts., Redwood City.

Plans by Carl Schuetz, 1125 The Highway, Redwood City.

Will have composition and tile roof, oil burning system.

SACRAMENTO, Cal.—Frank J. Casey, 1230 44th St., has purchased a one-half interest in the Travelers Hotel at Fifth and J Streets. The other owner is J. L. Flanagan. Under the new ownership it is proposed to remodel and renovate the interior of the hotel, install some new furniture and equipment. The structure contains 200 guest rooms, in addition to sample rooms, banquet hall, coffee shop, dining room, laundry and nine stores on the ground floor.

Contract To Be Awarded.
HOTEL Cost, \$175,000
OAKLAND, Alameda Co., Cal. San Pablo Ave. near 40th St.

Six-story steel frame and concrete hotel.

Owner—Name Withheld.

Plans by Clay N. Burrell, American Bank Bldg., Oakland.

Contractor—Dyer Const. Co., Ray Bldg., Oakland.

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Sub-Contracts Awarded.

ALTERATIONS Cost, \$26,685
SANTA ROSA, Sonoma Co., Calif. B
 St. bet. 4th and 5th Sts.

Alterations and additions to concrete hotel.

Owner—Leonard Howarth Estate, Hendsburg Highway, Santa Rosa.
 Architect—A. S. Bugbee, 462 Lombard St., San Francisco.

Contractor—W. L. Proctor, 12 W 10th St., Santa Rosa.

Plumbing—Geo. Mitchell, Santa Rosa.
Electrical Work—K. Stolling, Santa Rosa.

Reinforcing Steel—Soule Steel Co., Rialto Bldg., San Francisco.

Roofing—Walter Wooden, Santa Rosa.
Plastering—C. Valencia, Santa Rosa.

Completing Plans.

HOTEL Cost, \$50,000
SALINAS, Monterey Co., Cal. Main Street.

Three-story and basement reinforced concrete hotel and restaurant.

Owner—J. Tregonis, 102 Central Ave., Salinas.

Architect—A. W. Story, Pajaro Valley Bank Bldg., Watsonville.

Bids will be taken about October 17.

Plans Being Figured—Bids Close Oct. 20.

HOTEL Cost, \$25,000
SALINAS, Monterey Co., Cal.

Three-story reinforced concrete hotel and stores (23 rooms, 2 stores) (50 x 50 feet).

Owner—B. R. Losaca and A. Alcantara 29 Sausal St., Salinas.

Architect—Guy Koepf & M. S. Campbell, Associated, McDougall Bldg., Salinas.

Plans Being Prepared.

HOTEL Cost, \$150,000
HOLTVILLE, Imperial Co., Cal.

Five-story Class B steel frame and plaster hotel, theatre and office building (110x150 feet).

Owner—Holtville Income Properties, Inc.

Architect—Perrine & Renfro, Lincoln Bldg., Los Angeles.

Theatre will seat 1000 and hotel will contain 65 rooms.

ICE AND COLD STORAGE PLANTS

Additional Sub-Contracts Awarded.
OFFICES Cost, \$75,000
SAN FRANCISCO, Third and Arthur Streets.

Two-story and basement reinforced concrete and steel offices and cold storage building.

Owner—H. Moffatt & Co., 3rd and Arthur Streets.

Engineer—Ellison and Russell, Pacific Building.

Contractor—Barrett & Hilp, 918 Harrison Street.

Miscellaneous Iron—Fair Mfg. Co., 617 Bryant St.

Mill Work—Anderson Bros. Planing Mill, Quint and Custer Sts.

Plumbing and Heating—The Turner Co., 329 Tehama St.

As previously reported, form lumber awarded to Rolando Lumber Co., 301 Berry St.; electric wiring to Erayer Elec. Co., 7 Front St.; excavating to Sibley Grading & Teaming Co., 165 Landers St.

POWER PLANTS

PITTSBURG, Contra Costa Co., Cal.—Pacific Gas & Electric Co., 245 Market St., San Francisco, has authorized construction of a 6000-K.W. sub-station at the Shell Chemical Plant in the Ambrose District, between Pittsburg and Nichols. Plant will be so designed as to permit additional units as required.

BOULDER DAM—Southern Sierras Power Co. awarded contract by U. S. Interior Department for furnishing power for construction of the Hoover Dam (Boulder Project) and for incidental work in connection therewith, under Spec. 486-D. Bids were taken on the following items:

- days required for beginning delivery of power;
- total generating capacity of bidder's power system, exclusive of units of less than 1000 kilowatts capacity-kw;
- capacity of interconnections between bidder's power system and other power systems-kw;
- present peak load of bidder's power system-kw;
- point or points from which bidder proposes to construct transmission lines;
- additional generating capacity which bidder will provide-kw;
- location of additional generating capacity;
- estimated cost of construction and dismantling of any transmission line or lines, sub-station, telephone line, and/or generating facilities which bidder proposes to provide.

The bid of the Southern Sierras Power Co. follows:

Item 1 (2 lines): readiness-to-serve charge of \$29,342 per month plus an energy charge of \$.006 per kilowatt hour: (a) 1st line 240, 2nd line 420; (b) 66,575; (c) 52,000; (d) 51,400; (e) San Bernardino or Victorville, Calif., depending upon securing right of way; (f) 0; (h) \$2,828,425 exclusive of salvage value. Item No. 2 (one line): readiness-to-serve charge of \$17,106 per month plus an energy charge of \$.006 per kilowatt hour: (a) 240; (b) 66,575; (c) 52,000; (d) 51,400; (e) San Bernardino or Victorville, Calif., depending upon security right of way; (f) 0; (g) —; (h) \$1,525,390, exclusive of salvage value.

A complete list of the bids received on this project were published in the issue of October 13.

Plans Being Completed.

POWER HOUSE Cost, \$40,000
SAN FRANCISCO, Third Avenue and Parnassus Street.

One-story steel frame and concrete power house.

Owner—University of California.

Architect—Wm. C. Hays, Crocker 1st National Bank Bldg.

Specifications will be written immediately and bids called for upon their completion.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS**Plans To Be Prepared.**

LIBRARY Cost, \$—
SPARKS, Nevada. Location to be selected.

Fireproof library.

Owner—City of Sparks.

Architect—To Be Selected.

A committee has been appointed by the city council to select a site for the proposed structure which will replace the present Carnegie Library quarters.

Plans Being Figured—Bids Close Nov. 24, 2 P. M.

AUDITORIUM Cost, \$1,050,000
PASADENA, Los Angeles Co., Cal. Green St. and Garfield Avenue.

Three-story Class A concrete and brick municipal auditorium (2000 300 feet).

Owner—Pasadena Board of Education

Architect—Edwin Bergstrom and Bennett & Haskell, Associated, First Trust Bldg., Pasadena.

SANTA BARBARA, Cal.—State budget will include an item of \$35,000 for the erection of a National Guard armory in Santa Barbara.

ALAMEDA, Alameda Co., Cal.—City council proposes to purchase the Mazzini property on the west side of Oak Street near Lincoln avenue for future expansion of the city hall. City Manager Clifton E. Hickok has been instructed to devise ways and means whereby the city may purchase the land.

Preparing Working Drawings.

LIBRARY Cost, \$40,000
FAIRFIELD, Solano Co., Cal.

Two-story concrete public library.

Owner—County of Solano.

Architect—Coffman, Sahlgren & Stafford, Ford Bldg., Sacramento.

Bids will be advertised for about October 17.

RIVERSIDE, Cal.—Until 10 A. M. Nov. 3 (date of opening postponed from Oct. 27), bids will be received by Riverside county supervisors for furnishing and installing jail equipment in new county building under construction in Riverside. Provisions will be made for 120 prisoners. Bids will be taken on cell floors and partitions, plumbing, terrazzo work, etc. G. S. Wilson, architect, 3646 W 9th Street, Riverside.

Low Bidders.

JAIL Cost, \$—
LOS ANGELES, Cal. Avenue 19.

Five-story and basement Class A reinforced concrete and hollow tile jail (front portion, 200x45 ft.); (rear, 110x45 ft.) (accommodate 625).

Owner—City of Los Angeles.

Architect—Los Angeles City Constr. Department.

General Work—Schuck Constr. Co., 1937 W. 62nd St., Los Angeles, \$129,455.

Plumbing, Heating and Ventilation—F. C. Schilling, 3215 Beverly Blvd. Los Angeles, \$31,637.

Electrical Work—Electric Lighting Supply Co., 214 W. 3rd St., Los Angeles, \$4100.

Painting—Pohl Brown Co., 793 E. 17th St., Los Angeles, \$5180.

Elevators—Consolidated Steel Corp., 1200 Main St., Los Angeles, \$13,100.

Steel Cell Work—Brombacher Iron Works, 5555 Magnolia Ave., Vernon, \$24,730.

Complete list of bids received available from this office.

YREKA, Siskiyou Co., Cal.—I. N. Scammel, Yreka, at \$581.80, awarded contract by county supervisors to furnish and install oil burner in court-house. Complete list of bids follows:

S. H. Gillette Co., Gearhart automatic electric burner, \$550.

I. N. Scammel, No. 3 1/2 Johnson oil burner, install for \$581.80.

Provost Bros., Ashland, Ore., century burner, \$555.

Electric Supply Co., automatic Ray burner, \$637.

Seavey Electric Hdwe. Co., Johnson burner No. 3 1/2, \$649.50.

Campbell Sheet Metal Works, Medford, Ore., Oil-O-Matic burner, \$745.

Dinkins & Churchill, No. 3 1/2 Johnson oil burner, \$885.

Plans Being Figured—Bids Close Nov. 6.

REMODELING Cost, \$10,000
SAN CARLOS, San Mateo Co., Cal.

Remodel City Hall (frame and stucco construction).

Owner—City of San Carlos.

Architect—E. L. Norberg, 580 Market St., San Francisco.

The work will include the installation of a fireproof vault for the city assessor and tax collector; an auditorium, 33 by 35 ft., seating 300 persons; heating and ventilating will also be included in the changes.

Commissioned To Prepare Plans.
CITY HALL, Cost, \$—
BEVERLY HILLS, Los Angeles Co.,
New City Hall.
Owner—City of Beverly Hills.
Architect—Koerner & Gage, 468 N.
Camden Drive, Beverly Hills, and
J. C. Austin and F. M. Ashley,
Chamber of Commerce Bldg., L. A.

YUBA CITY, Sutter Co., Cal.—
County Grand Jury, in annual report,
recommends erection of a new structure
to house county free library now
quartered in Mission Hall.

RESIDENCE

Plans Being Completed.
PARISH HOUSE, Cost, \$10,600
OAKLAND, Alameda Co., Cal. Emer-
son and Excelsior Aves.
Two-story frame and stucco parish
house.
Owner—Roman Catholic Archbishop of
San Francisco, 1100 Franklin St.,
San Francisco.

Architect—W. E. Schirmer, 700 21st
St., Oakland.
Bids will be taken in about one
week.

Completing Plans.
RESIDENCE, Cost, \$—
BERKELEY, Alameda Co., Cal. Mont-
rose Road.
Two-story and basement brick veneer
frame and stucco residence (8
rooms and 3 baths).

Owner—Neville Lee, 1060 Cragmont
Ave., Berkeley.
Architect—E. L. Snyder, 2101 Shat-
tuck Ave., Berkeley.
Bids will be taken in about one
week.

Sub-Bids Being Taken.
RESIDENCE, Cost, \$7500
SAN FRANCISCO. W Funston Ave.
near Taraval Street.
One-story and basement frame and
stucco residence (5 rooms).
Owner and Builder—J. Kennedy.
Plans by D. E. Jaekle, Call Bldg., San
Francisco.

Tile and composition roof, gas heat-
ing system.

Sub-Bids Being Taken
RESIDENCES Cost, \$6000 to \$8000 ea
SAN MATEO, San Mateo Co., Cal.
Casa Mateo.
Six one-story and basement frame
and stucco residences (5 rooms
each).

Owner—Castle Building Co., 830 Mar-
ket St., San Francisco.
Plans by D. E. Jaekle, Call Bldg., San
Francisco.

Contractor—G. W. Morris, 95 Pine-
hurst St., San Francisco.
Part tile and composition roof, gas
heating system, colored tile baths and
kitchens.

Plans Being Figured.
RESIDENCE, Cost, \$15,000
P I E D M O N T, Alameda Co., Cal.
Crocker Highlands.
Two-story and basement frame and
stucco residence.

Owner—Dr. Hobart Rogers, 400 29th
St., Oakland.
Architect—W. E. Schirmer, 700 21st
St., Oakland.

Plans Completed.
RESIDENCE, Cost, \$—
SAN FRANCISCO. Camino Del Mar
and Lake St.
Large residence.

Architect—Chas. J. Carter.
Architect—Ed. M. Sharpe, 525 Mar-
ket Street.
Agent—Allen & Co., 163 Sutter St.
Building permit has been applied
for.

Low Bidders.
RESIDENCE, Cost, \$12,500
SONORA, Tuolumne Co., Cal.
Two-story and basement frame and
stucco residence (9 rooms, 2
baths).

Owner—C. H. Grayson, Sonora.
Architect—G. N. Hilburn, Elks Bldg.,
Modesto.
H. Tennyson, 125 Poplar St., Mo-
desto low at \$7000.

J. Harley, Sonora, second low at
\$7500.

Bids did not include painting, heat-
ing or plumbing.

Contract Awarded—Sub - Bids Being
Taken.
RESIDENCE, Cont. price \$50,670
ATHERTON, San Mateo Co., Cal.
Two-story and basement brick veneer
residence.
Owner—Clarence Walter, Russ Bldg.,
San Francisco.
Architect—H. H. Gutterson, 526 Powell
St., San Francisco.
Contractor—G. P. W. Jensen, 320 Mar-
ket St., San Francisco.

Bids Opened—Held Under Advice
RESIDENCE, Cost, \$11,000
HILLSBOROUGH OAKS, San Mateo
Co., Cal.
Two-story and basement frame and
stucco residence (8 rooms).
Owner—Thomas Davis.
Architect—Harold Stoner, 220 Third
Ave., San Mateo.

Contract Awarded.
RESIDENCE, Cost, \$35,000
BERKELEY, Alameda Co., Cal.
North Cragmont District.
Two-story and basement frame and
stucco residence.
Owner—Mrs. Nash, % Weldon Nichols
Attorney, Mercantile Trust Bldg.,
Berkeley.

Architect—Mark Daniels, Riviera.
Santa Monica.
Whether bids will be called for or
not is indefinite at this time, but it
is expected to start construction
around November 1st.

Contract Awarded.
RESIDENCE, Cost, \$10,000
RED BLUFF, Tehama Co., Cal.
Two-story frame and stucco residence
Owner—Lawrence Kennedy.
Architect—Chester Cole, Chico, Cal.
Contractor—J. P. Brennan, Redding.

RESIDENCE, Cost, \$60,000
ATHERTON, San Mateo Co., Cal.
Two-story and basement brick veneer
residence.
Owner—Clarence Walter, Russ Bldg.,
San Francisco.
Architect—H. H. Gutterson, 526 Powell
St., San Francisco.

Following is a complete list of bids:
G. P. W. Jensen, 320 Market
St., San Francisco..... \$50,850
A. F. and C. W. Mattock, S. F. 50,376
Clinton Stephenson Const. Co.,
San Francisco..... 51,783
Meese & Briggs, Burlingame..... 52,896
D. B. Gladstone, San Francisco 53,000
E. J. Schmeling, Palo Alto..... 54,350
L. N. Pollard, Redwood City..... 56,032
Moore & Madsen, San Francisco 57,725
P. S. Marshall San Francisco..... 69,000

Bids held under advisement.
Painting bids are still being taken.

Preparing Working Drawings.
RESIDENCE, Cost, \$—
SEATTLE, Washington.
Three-story reinforced concrete resi-
dence.
Owner—D. E. Frederick, Seattle.
Architect—Lewis P. Hobart, Crocker
Bldg., San Francisco.
In all probability bids will not be
called for. Work will be done by a
Seattle contractor.

Contract Awarded.
RESIDENCE, Cost, \$12,000
SONORA, Tuolumne Co., Cal.
Two-story and basement frame and
stucco residence (7 rooms, 2 baths)
Owner—Andrew M. Haynes, Sonora.
Architect—G. N. Hilburn, Elks Bldg.,
Modesto.
Contractor—Ecker & Stedmler, 1658
S. San Joaquin St., Stockton.

Preparing Working Drawings.
RESIDENCE, Cost, Approx. \$25,000
SAN FRANCISCO. Junipero Serra
Blvd. and Mercedes St.
Two-story and basement frame and
stucco residence (10 rooms and 3
baths) the roof.
Owner—Howard E. Mohr, 140 San Le-
andro Ave., San Francisco.
Architect—Marlin Sheldon, Monad-
nock Bldg., San Francisco.
Bids will be taken in two or three
weeks.

Sub-Bids Being Taken By Owner.
RESIDENCE, Cost, \$16,000
SAN MATEO, San Mateo Co., Cal.
San Mateo Park
Two-story and basement frame and
stucco residence (11 rooms).
Owner and Builder—A. W. Stickney,
1629 Howard St., Burlingame.
Architect—Harold Stoner, 220 Third
Ave., San Mateo.

Planned.
RESIDENCES, Total Cost, \$125,000
SAN FRANCISCO. N Judah St., bet.
21st and 22nd Aves.
Twenty one-story and basement frame
and stucco residences.
Owner and Builder—Herman Chris-
tenson, 1422 27th Ave., S. F.
Architect—None.

Sub-Bids Being Taken.
RESIDENCE, Cost, \$6500
OAKLAND, Alameda Co., Cal. Fern-
side Tract.
Two-story frame and stucco residence
(6 rooms)
Owner & Builder—C. L. Reynolds, 6221
Floris St., Oakland.
Plans by L. F. Hyde, 372 Hanover St.,
Oakland.

Revised Plans Being Completed.
RESIDENCE, Cost, \$20,000
SAN FRANCISCO. Miraloma Drive.
Two-story and basement frame and
stucco residence.
Owner—E. B. Ward, Tenth and How-
ard Streets.
Architect—Clarence Smale, Los Ange-
les.
New bids will be taken upon com-
pletion of plans.

Contract Awarded.
RESIDENCE, Cost, \$—
ST HELENA, Napa Co., Cal. Ty-
chson Hill (2 miles northwest of
St. Helena).
One-story frame and stucco residence
46x59 feet.
Owner—Mrs. M. E. Schofield, St.
Helena.

Plans by Contractor.
Contractor—G. O. Jursch, St. Helena.

Contract Awarded.
RESIDENCE, Cost, \$11,000
PIEDMONT, Alameda Co., Cal. No.
271 Sandringham Drive.
Two-story and basement frame and
stucco residence (8 rooms and ga-
rage).
Owner—Pendleton & Frank, 19 Dow-
ney Place, Oakland.
Architect—F. H. Slocombe, 62 York
Drive, Piedmont.
Contractor—H. C. Pendleton, 76 Lake
View, Piedmont.

Site To Be Selected.

MANSSION Cost, \$—
SACRAMENTO, Sacramento Co., Cal.
Governor's Mansion.
Owner—State of California.

Architect—State Department of Public Works, Division of Architecture, Public Works Bldg., Sacramento.
Bert B. Meek, state director of public works, is conferring with local real estate operators regarding a site for the proposed structure. The 1929 legislature authorized and directed the State Department of Public Works to "investigate available sites in the City of Sacramento for the erection of a new residence for the governor of the State."

Plans Being Completed.

RESIDENCE Cont. Approx. \$20,000
SANTA CRUZ, Santa Cruz Co., Cal.
Two-story and basement frame and stucco residence.
Owner—Dr. Percy Phillips, 256 Walnut St., Santa Cruz.
Architect—W. H. Weeks, 111 Sutter St., San Francisco.

Bids will be taken within one week.

Contract To Be Awarded.

RESIDENCE Cont. Price \$15,987
SAN JOSE, Santa Clara Co., Cal.
Two-story and basement frame and stucco residence.
Owner—T. W. MacQuarrie, 309 S-8th St., San Jose.
Architect—Binder & Curtis, 35 W-San Carlos St., San Jose.
Contractor—The Minton Co., Mt. View

Plans Being Completed.

RESIDENCE Cost, \$12,500
OAKLAND, Alameda Co., Cal. Lakeshore Highlands.
Two-story and basement frame and stucco residence (11 rooms and 3 baths).

Owner—A. R. Lapham, 947 Hillcroft Circle, Oakland.
Plans by Irwin Johnson, 2215 Seventh Ave., Oakland.

Plans will be completed in one week.

Plans Being Revised.

RESIDENCE Cost, \$17,500
SAN FRANCISCO, St. Francis Wood.
Two-story and basement frame and stucco residence (12 rooms, three baths).

Owner—T. Trevorrow (Allen and Co.), 163 Sutter St.
Plans by D. E. Jaekle, Call Bldg.
Contractor—A. J. Herzog, 1945 Ocean Avenue.

Oil burning system, full tile roof, all colored tile kitchens and bath rooms. oak floors throughout, hardwood trim, electric refrigeration, sweep chutes, etc.

SCHOOLS

SAN JOSE, Santa Clara Co., Cal.—McKenley Glans, 88 E. Santa Clara St., San Jose, at \$1182 awarded contract by Board of Education, to furnish and install window shades in the Herbert Hoover Junior High School.

L. Lion & Sons, San Jose, submitted the only other bid at \$1224

Bids In—Held Under Advertisment.

SCHOOL Cost, Approx. \$20,000
OAKLAND, Alameda Co., Cal. Tenth St., bet. Brush and West Sts.
Two-story Class C brick school (auditorium).

Owner—Oakland Japanese Methodist Church.

Architect—Louis M. Upton, 110 Sutter St., San Francisco.

Announcement will be made shortly

CHICO, Butte Co., Cal.—Board of Education plans to install pressure system at Paradise School for water supply; estimated cost \$200.

Plans Being Figured.

ADDITION Cost, Approx. \$10,000
MOSS LANDING, Monterey Co., Cal.
One-story frame addition to present school (2 classrooms).
Owner—Moss Landing School District
Architect—W. H. Weeks, Hunter-Dulin Bldg., San Francisco; 1736 Franklin St., Oakland, and Bank of Italy Bldg., San Jose.

Contract Awarded.

LIBRARY Cost, \$100,000
SANTA CLARA, Santa Clara Co., Cal.
University of Santa Clara.
Two-story reinforced library.
Owner—University of Santa Clara, Santa Clara.

Architect—J. J. Donovan, 1916 Broadway, Oakland.

Contractor—H. C. Miller, Santa Clara. Construction will start early in January.

Plans Being Figured.

AUDITORIUM Cost, \$125,000
LOS ANGELES, Cal. John Muir Technical High School.

Reinforced concrete high school auditorium (to seat 1200; 120x180-ft.).
Owner—Pasadena Board of Education
Architect—Bennett and Haskell, First Trust Bldg., Pasadena.

Plans Being Completed.

SCHOOL Cost, \$650,000
SAN FRANCISCO, Noe and 25th Sts.
Class A junior high school building (3-story and basement concrete; Travertine exterior, tar and gravel roof; to accommodate approx. 800 students).

Owner—City and County of San Francisco.

Architect—Crim, Resing and McGuinness, 488 Pine St.
Plans will be completed in 1 week.

EL CENTRO, Imperial Co., Cal.—Until 7:30 P. M., Oct. 21, bids will be received by the Central Union high school for furnishing 16 Giant Mogul projectors to be installed on the school athletic field.

COALINGA, Fresno Co., Cal.—Fred E. Turner Co., Stockton, at \$1,345 awarded contract by Coalinga Union High School District to furnish 526 lin. ft. of Pennsylvania Split Slate Blackboard, 4-ft. wide, for high school. Complete list of bids follows:
John Norman, L. A. (Italian).....\$1,178.00
Webber & Co., Fresno (Penn.).....\$1,325.00
alternate bid.....1,350.00
F. E. Turner, Stockton (Pa.).....1,345.00
Pacific Coast Blackboard Co., Los Angeles (Pa.).....1,472.00
H. S. Crocker Co., San Francisco (Italian).....1,472.50

COALINGA, Fresno Co., Cal.—Robinson Electric Co., 141 College, Fresno, at \$2,050 awarded contract by Coalinga Union High School District to furnish and install electrical stage equipment. Bids were taken on the following items:

- (1) One stage panel board provided with 22 circuits and nine dimmers;
- (2) One 27 foot section of footlight containing 14 200-watt reflectors;
- (3) Eight 6-ft. sections of standard borderlights;
- (4) Install and wire board, footlights border lights, stage pockets, base plugs, work lights and all equipment included in specifications.

Complete list of bids follows:
Robinson Electric Co.....\$2,050
Davis Elec. Co., Coalinga.....2,329
Pineab & Howe Elec. Co., Los Angeles (partial equip.).....940
National Theatre Co., San Francisco (equipment only).....1,771

CHICO, Butte Co., Calif.—Board of Education, Chas. H. Camper, secretary, has authorized the purchase of thirty chairs for assembly room. The money will be provided from the student body fund.

Plans Being Figured—Bids Close

Nov 1, 2 P. M.
SCHOOL Cost, \$35,000
UPPER LAKE, Lake Co., Cal.
One-story reinforced concrete high school (5 classrooms and auditorium).

Owner—Upper Lake Union High School District.

Architect—Wm. Herbert, Rosenberg Bldg., Santa Rosa.

Will have tile roof, steam heating system.

Bids will be opened at Upper Lake.

Plans Being Figured—Bids Close

Oct 24, 7 P. M.
CLOCK SYSTEM, ETC. Cost, \$—
MARTINEZ, Contra Costa Co., Cal.
Furnish and install window shades, program clock system, intercommunicating telephone system, opera chairs for auditorium, balcony and oral English room for high school.

Owner—Alhambra Union High School District, F. D. Butcher, clerk.

Architect—W. H. Weeks, 111 Sutter St., San Francisco.

Previous bids on these units were rejected. Certified check 5% payable to district required with bid. Specifications obtainable from architect and on file in office of clerk at Martinez.

See call for bids under official proposal section in this issue.

Plans Being Figured—Bids Close

October 14, 1930
October 25 8 A. M.
ADDITION Cost, \$—
CORNING, Tehama Co., Cal.
One-room addition to grammar school
Owner—Corning Grammar School District, Mrs. L. J. Lawrence, Pres.
Architect—Starks & Flanders, 714 Forum Bldg., Sacramento.

Certified check 10% payable to President of District required with bid. Plans obtainable from architects on deposit of \$10, returnable.

Plans Being Figured—Bids Close

November 3, 8 P. M.
ADDITION Cost, \$2500
HOLLISTER, San Benito Co., Cal.
Frame and stucco addition to shop room of Agricultural Unit
Owner—San Benito County High School District, Jas. P. Davis, Clerk.

Plans by Mr. Griffen, Hollister.

Segregated bids are wanted for:

- (A) Excavation and concrete (excluding main floor).
- (B) Carpenter work and painting.
- (C) Sheet metal.
- (D) Plastering.
- (E) Plumbing.

Certified check 5% payable to President of Bd. of Trustees of district must be in with bid. Plans obtainable from clerk.

ANTIOCH, Contra Costa Co., Cal.—The Minton Co., 243 Hamilton St., Palo Alto, and Mt. View, desire sub-bids on all portions of work in connection with the construction of a brick high school to be erected in Antioch for the Antioch Live Oak High School District. Plans were prepared by Architects Davis-Pearce Co., Grant and Weber Sts., Stockton. Cost, \$150,000. All sub-bids must be in by October 20 and must cover all of the alternate bids correctly. Bids are to be opened by Clerk of the District on October 22, 1:30 P. M.

Contract Awarded.
SCHOOL. Cont. Price, \$7900
HAYWARD, Alameda Co., Cal.
 School building.
 Owner—Independent School District.
 B. R. Manter, Clerk, Route 3,
 Box 290, Hayward.
 Architect—Not Given.
 Contractor—A. Holyoke, East Ave.,
 Hayward.

Plans Being Prepared.
SWIMMING POOL. Approx. \$20,000
MONTEREY, Monterey Co., Cal.
 Reinforced concrete and tile swim-
 ming pool.
 Owner—Monterey Union High School
 District.
 Architect—Swartz & Ryland, Spazier
 Bldg., Monterey.
 Bids will be advertised for at a
 later date.

Plans To Be Prepared.
COLLEGE BLDGS. Cost, \$6,000,000
SAN FRANCISCO. Vicinity of present
 Masonic Cemetery.
 Group of college buildings.
 Owner—St. Ignatius College.
 Architect—Edward A. Eames, 353 Sacra-
 mento St., San Francisco.
 Structures will include quarters for
 the following studies: Science, \$300,000;
 law, \$250,000; library, \$200,000;
 gymnasium, \$230,000; auditorium,
 \$100,000; medical unit, \$250,000; stadium
 (cost not determined); purchase
 of athletic equipment, \$690,000 and
 students' union building, \$100,000.

Bids Rejected.
BASKET BALL COURT. Cost \$—
COURTLAND, Sacramento Co., Cal.
 Construct basket ball court.
 Owner—Bates Joint Union School Dis-
 trict, L. C. Peck, clerk.
 Architect—W. E. Coffman, 437 Forum
 Bldg., Sacramento.
 Whether new bids will be called for
 or not is indefinite at this time.

MADERA, Madera Co., Cal.—Trustees
 of the Madera High School Dis-
 trict will consider preliminary plans
 of architects for a new school to re-
 lieve the congestion in the present
 high school plant. The plans will be
 considered at the November meet-
 ing, when a selection will probably
 be made.

BERKELEY, Alameda Co., Cal.—
 Until October 27, 8 P. M., bids will
 be received by Clara F. Andrews, sec-
 retary, Board of Education, 2325 Mil-
 via St., to furnish and install gym-
 nasium apparatus in Berkeley High
 School. Specifications obtainable from
 secretary.

BANKS, STORES & OFFICES

Sub-Bids Being Taken.
CAPRIS, SAN FRANCISCO. Cost, \$60,000
N. Columbus Ave.
 from Chestnut St. to Houston.
 Frame and concrete cals.
 Owner—Frank Martinelli, 3743 Scott
 St., San Francisco.
 Architect—Miller & Pfueger, 550 Mar-
 ket St., San Francisco.
 Contractor—J. Martinelli, 1355 Fran-
 cisco St., San Francisco.
 Will contain dining room, 60x120 ft.,
 large lobby, ladies' lounge, men's
 smoking room, private dining rooms,
 special illuminating features on in-
 terior and exterior. The exterior is
 to be faced with glazed tile with an
 entrance of illuminated glass.

Sub-bids are wanted on all portions
 of the work.

Sub-Bids Wanted.
STORE. Cost, \$12,000
WOODLAND, Yolo Co., Cal.
 One-story frame jewelry store (15x60
 feet).

Owner—Mrs. Frankie Payne, Wood-
 land.
 Architect—W. H. Weeks, 111 Sutter
 St., San Francisco.
 Contractor—J. Matroni, Woodland.
 Sub-bids are wanted on roofing, tile
 work, glass and glazing and iron
 work.

Sub-Figures Being Taken.
STORE. Cost, \$8000
SAN FRANCISCO. E Mission St. N
 14th Street.
 Two-story and basement frame and
 stucco store.
 Owner and Builder—A. R. Larson, 4020
 24th Street.
 Architect—F. W. Dakin, 625 Market
 Street.

Preparing Working Drawings.
BANK. Cost, \$60,000
LOS GATOS, Santa Clara Co., Cal.
 Main St. and Santa Cruz Ave.
 (52x100 feet).
 One-story reinforced concrete bank
 with the roof (ornamental stone
 and acoustical plaster).
 Owner—Bank of Italy.
 Architect—H. A. Minton, Bank of
 Italy Bldg., San Francisco.
 Bids will be taken in about thirty
 days.
 There will be two stores, 20x72 ft.
 in connection with building.

Sub-Contracts Awarded.
RESTAURANT. Cost, \$6875
SACRAMENTO, Sacramento Co., Cal.
 H Street, bet. 6th and 7th Sts.
 One-story brick, frame and stucco
 restaurant and service station.
 Owner—Dan A. Stanich, 619 H St.,
 Sacramento.
 Plans by George Scollan, % Contrac-
 tor.
 Contractor—Lindgren & Swinerton,
 Inc., California State Life Bldg.,
 Sacramento.
Mill Work.—Frank Terry, Second and
 S Sts., Sacramento.
Plastering.—Frank Scollan, 2919 T St.,
 Sacramento.
Miscellaneous iron.—Palm Iron Works
 15th and S Sts., Sacramento.

Contract Awarded.
ANNEX. Cost, \$1,500,000
SAN FRANCISCO Bush Street near
 Montgomery (50x137 feet).
 Twenty-two-story Class A reinforced
 concrete annex to building.
 Owner—Mills Estate, Inc. (Curtis D.
 O'Sullivan, president), Mills Bldg.,
 San Francisco.
 Architect—Lewis P. Hobart, Crocker
 Bldg., San Francisco.
 Contractor—Lindgren & Swinerton,
 Inc., 225 Bush St., San Francisco.
 Will be known as Mills Tower.

Contract Awarded.
LABORATORY. Cost, \$300,000
LOS ANGELES, Cal. Second St., bet.
 San Pedro and Central Ave.
 Five-story and basement Class A steel
 frame, concrete and brick labora-
 tory (hollow tile partitions) (250
 by 177 feet).
 Owner—Brunzweig Drug Co.
 Architect—Albert C. Martin, Higgins
 Bldg., Los Angeles.
 Contractor—Macdonald & Driver,
 Board of Trade Bldg., Los Angeles

Contract Awarded.
OFFICES. Cost, \$2,000,000
LOS ANGELES, Cal. Sixth and Olive
 Streets.
 Thirteen-story and basement Class
 A steel frame and terra cotta of-
 fices (132x150 feet).
 Owner—Western National Co.
 Architect—Rudolph Falkenrath, Cham-
 ber of Commerce Bldg., L. A.
 Contractor—Mitty Bros. Constr. Co.,
 Dewiler Bldg., Los Angeles.

Contractor Selected.
ALTERATIONS. Cost, \$100,000
SAN FRANCISCO. St. Francis Hotel
 (Powell, Geary and Post Sts.)
 Alter mural room for restaurant and
 sweet shop.
 Owner—St. Francis Hotel.
 Architect—W. B. Saville, Crocker lat
 National Bank Bldg., S. F.
 Lessee—Pig'n Whistle Corp.
 Contractor—Jacks & Irvine, 74 New
 Montgomery St., San Francisco.

Plans Being Completed.
STORE. Cost, \$—
RICHMOND, Contra Costa Co., Calif.
 Twenty-third St. and Macdonald
 Ave. (140x123-ft.)
 One-story brick store (Spanish type;
 24,000 sq. ft.)
 Owner—Los Angeles Syndicate (Names
 Withheld).
 Architect—Hamilton Murdock, Syndi-
 cate Bldg., Oakland.
 Bids will be called for shortly.

Preparing Working Drawings.
STORES. Cost approx. \$75,000
OAKLAND, Alameda Co., Calif. SW
 19th and Broadway.
 Group of one-story steel frame and
 terra cotta shops and stores.
 Owner—Twentieth & Broadway Realty
 Co., Oakland.
 Architect—Albert J. Evers, 525 Market
 St., San Francisco.
 Bids will be taken in about 3 weeks.

Plans Being Completed.
ALTERATIONS. Cost, \$15,000
SAN FRANCISCO. Geary Street near
 Eighteenth Ave.
 Alterations and additions to present
 building for confectionery store.
 Owner—Withheld.
 Plans by Lawrence Ebbs, 320 Ful-
 ton St., San Francisco.
 Bids will be taken in one week.

LOS ANGELES, Cal.—American
 Medical Buildings, Ltd., Dr. F. E.
 Morgan, vice-president, 911 Oviatt
 Bldg., announce that work will be
 started about January 1, 1931, on the
 construction of two professional of-
 fice buildings, one on Wilshire Blvd
 and the other in Hollywood, the sites
 to be announced later. They will be
 12-story, Class A structures, and the
 offices will be equipped for the use
 of doctors and dentists. Architect
 George H. Wiemeyer, 911 Oviatt
 Bldg., will prepare plans for the
 buildings and the Orndorff Construc-
 tion Co., 437 S. Hill St., will proba-
 bly be the contractors.

Sub-Contracts Awarded
REMODELING. Cost, \$15,000
SAN FRANCISCO. No. 111 O'Farrell
 Street.
 Remodel present store.
 Owner—Kohler & Chase, Premises.
 Architect—F. H. Meyer, 525 Market
 St., San Francisco.
 Contractor—Clinton-Stephenson Con-
 struction Co., Monadnock Bldg.,
 San Francisco.
Steam Heating System.—Fred Snook
 Co., 596 Clay St., San Francisco.
Lumber.—J. H. McCallum, 743 Bryant
 St., San Francisco.

Firtex Insulation.—McCormick Lum-
 ber Co., 1401 Army St., S. F.
Masonite WallBoard.—E. K. Wood
 Lumber Co., Frederick and King
 Sts., Oakland.
Mill Work.—Empire Planing Mill, 750
 Bryant St., San Francisco.
Electrical Work.—Armstrong Electric
 Co., 2900 Howard St., S. F.
Glass.—W. P. Fuller Co., 301 Mission
 St., San Francisco.

Contract Awarded.
ALTERATIONS Cost, \$6500
SAN FRANCISCO. NW Montgomery
and Post Sts.
Alterations to bank.
Owner—Crocker First National Bank,
Montgomery and Post Sts.
Engineer—J. D. Galloway, 1302 Crocker
first National Bank Bldg.
Contractor—California Art Stone and
Granite Works, Railroad and Mag-
nolia Ave., South San Francisco.

Bids Opened—Held Under Advertisment
ANNEX Cost, \$2,000,000
SAN FRANCISCO. Bush Street near
Montgomery (50x137 ft.)
Twenty-two-story Class A reinforced
concrete annex to building.
Owner—Mills Estate, Inc. (Curtis D.
O'Sullivan, president, Mills Bldg.,
San Francisco.
Architect—Louis P. Hobart, Crocker
Bldg., San Francisco.

Low Bidder.
BANK Cost, Approx. \$20,000
CASTROVILLE, Monterey Co., Cal.
One-story brick bank.
Owner—Monterey County Trust &
Savings Bank, Salinas.
Architect—H. H. Winner Co., 580 Mar-
ket St., San Francisco.
Low Bidder—N. H. Sjoberg & Sons,
Call Bldg., San Francisco.

THEATRES

Contract Awarded.
THEATRE Cost, \$200,000
WEST LOS ANGELES, Cal. West-
wood Village.
Class A reinforced concrete theatre
(to seat 2000).
Owner—Fox West Coast Theatre, Inc.
Architect—P. P. Lewis, 1063 West-
wood Blvd., West Los Angeles.
Contractor—Henry I. Beller Constr.
Co., 6513 Hollywood Blvd., Los
Angeles.

Contract Awarded.
THEATRE Cost, \$80,000
LOS ANGELES, Cal. No. 1553 N.
Vermont Avenue.
One-story and mezzanine floor Class
C concrete and brick theatre
(170x200 ft.) (to seat 900).
Owner—Jacob Stern & Sons, Haas
Bldg., Los Angeles.
Architect—Morgan Walls & Clements
Van Nuys Bldg., Los Angeles.
Contractor—Henry I. Beller Constr.
Co., 6513 Hollywood Bldg., Los An-
geles.

Plans Being Completed.
THEATRE Cost, \$—
OAKLAND. Alameda Co., Cal. Broad-
way, Franklin and 20th Sts.
Class A theatre (seating 3500).
Owner—Albert Kearne, Samuel Han-
burger, et al.
Architect—B. Albert Lansburgh, 140
Montgomery St., San Francisco.
Lessee—Warner Brothers.
Structural Engineer—W. Adrian, 417
Market St., San Francisco.
Heating, Plumbing & Ventilating En-
gineer—Leland & Haley, 58 Sutter
St., San Francisco.
Electrical Engineer—R. L. St. John
Co., 541 Market St., San Francisco
Bids will be called for shortly. A 30-
year lease has been taken on the
property.

WHARVES AND DOCKS

WEST LOCH, Oahu, T. H.—Propo-
sal of the Bureau of Yards & Docks,
Navy Department, Washington, D. C.,
to ask bids in the immediate future
to construct a reinforced concrete
wharf at West Loch, under Specifi-
cation No. 6159, has been cancelled. The
work will not be undertaken until
some future date.

MISCELLANEOUS CONSTRUCTION

MARYSVILLE, Yuba Co., Cal.—En-
gineers of the General Electric Co.
have submitted tentative plans to the
city council for night lighting the
Chelan Municipal Airport. The total
cost of the installation is estimated
at \$1280.

STOCKTON, San Joaquin Co., Cal.
—Until November 3, 11 A. M., bids
will be received by Eugene D. Gram-
ham, county clerk, to construct fence
on the J. R. Russell plot in Road Dis-
trict No. 3. Will be about 3 miles in
length. Certified check 10% payable
to Chairman of the Board of Super-
visors required with bid. Specifica-
tions obtainable from Julius Manthey,
county surveyor.

Completing Plans.
HOSPITAL Cost, \$10,000
BERESFORD, San Mateo Co., Cal.
One- and two-story frame and stucco
animal hospital.
Owner—Dr. Harold H. Groth, El Ca-
mino, Beresford.
Architect—Harold Stoner, 220 Third
Ave., San Mateo.

REDWOOD CITY, San Mateo Co.,
Cal.—Until October 20, 3 P. M., bids
will be received by P. E. Myers, city
clerk, to furnish materials and con-
struct fence at City Corporation Yard
in Chestnut St. to be "Page Protec-
tion Fence Style CTP" and "Cyclone
Safeguard Fence," or the equivalent
of either, height of fence 6-ft. Cert.
check 10% payable to city required
with bid. Spec. obtainable from Chas.
L. Dimmitt, city engineer.

COLUMBIA COUNTY, Cal.—George
McDaniel, Marysville, at \$7343 award-
ed contract by State Highway Com-
mission to construct 9 miles of
property fence on state highway be-
tween Bear Creek and 8 miles west of
Williams.

HANFORD, Kings Co., Cal.—Kam-
lan Fence Co., 351 Ryant Street, San
Francisco, at \$720 submitted low bid
to city council to furnish materials
and erect chain link fence, 4-ft. high
and 1,000-ft. long, at the Municipal
Airport. To furnish materials only.
Kamlan Fence Co. was low at \$520.
Bids taken under advisement until Oc-
tober 13. Following is a complete list
of the bids received:

Furnish and Erect	
Kamlan Fence Co., S. F.	\$720.00
Anchor Post Fence Co., S. F.	831.44
Standard Fence Co., Oakland	940.56
Calif. Wire Cloth Co., Oakland	975.00
Michel & Pfeffer, S. F.	977.60
Pacific Fence Co., Los Angeles	997.00
Furnish Materials Only	
Kamlan Fence Co.	\$520.00
Anchor Post Fence Co.	631.44
Standard Fence Co.	700.56
Michel & Pfeffer Iron Works	727.60
California Wire Cloth Co.	935.00

Plans To Be Made.
STAGE DEPOT Cost, \$60,000
VALLEJO, Solano Co., Cal. Several
sites being considered.
Fireproof stage depot.
Owner—Pacific Greyhound Lines, 9
Main St., San Francisco.
Architect—To Be Selected.

Segregated Bids Being Taken.
MORTUARY Cost, \$85,000
LOS ANGELES, Calif. Santa Monica
Blvd. and Tamarind St.
Three-story class C reinforced con-
crete mortuary (100x30-ft.)
Owner—Leroy Bagley.
Architect—Walter R. Hagedorn, 5514
Wilshire Blvd., Los Angeles.

MONTEREY, Monterey Co., Calif.—
Until October 28, 7 P. M., bids will be
received by Clyde A. Dorsey, city
clerk, to lay brick paths and construct
brick pavement in and over the re-
creational area in the Friendly Plaza,
adjoining Colton Hall. City will pay
75% of the contract price upon com-
pletion of the work and the remain-
ing 25% 35 days thereafter. Certified
check 10% payable to city required
with bid. Plans on file in office of the
clerk.

Plans Being	Figured—Bids	Close
October 27,	11 A. M.	
STATION	Cost, \$—	
BAKERSFIELD	Kern Co., Cal.	
Kern River Park.		
Comfort station and sulphur water		
fountain.		
Owner—County of Kern, F. E. Smith,		
County Clerk.		
Architect—Edwin J. Symmes, Haber-		
felde Bldg., Bakersfield.		
Certified check 10% payable to		
Chairman of the Board of Super-		
visors required with bid. Plans ob-		
tainable from architect.		

BUSINESS OPPORTUNITIES

Oakland Branch Tractor Division,
Allis-Chalmers Mfg. Co., 4053 Harlan
St., Emeryville, Calif., (Mr. Val
Peterson), desires to contact with
parties or firms familiar with ma-
chine equipment and capable of ren-
dering aggressive representation in
San Francisco. The Division manu-
factures tractors, industrial and agri-
cultural equipment and has national
distribution.

Grobet File Corp. of America, 3
Park Place, New York, N. Y., desires
to secure a manufacturers' agent in
San Francisco for a line of precision
and machinist files. Does not wish to
deal with hardware stores and mill
supply houses, ONLY with manufactur-
ers' agent.

O. W. M. Miller Coal Co., 302 New
England Bldg., Kansas City, Mo.,
offers full or part time sales represen-
tation of your line in local or South-
west territory.

The Whitehead & Hoag Co., New-
ark, N. J. (Mr. W. L. Heath), New-
ark, N. J., desires a man to handle
their line in San Francisco territory,
of high-grade advertising specialties.
R. G. Givson, Blackwell, Oklahoma,
wishes a specialty selling proposition
on commission basis. References, bond
and financial statement will be fur-
nished on request.

H. R. Gillingham Co. (Mr. H. R.
Gillingham), 611 South La Brea Ave.,
Los Angeles, wishes to secure agency
or distributorship for one or more
lines of merchandise on the Pacific
Coast.

P. W. Runyan, Secretary, McSav-
aney Corp., Springfield, Ohio, is in-
terested in contacting with individual
or firm prepared to take up the sale
and distribution of a new type of com-
mercial illuminated display. Arrange-
ments can be made to manufacture
the sign in San Francisco or at
Springfield, Ohio, purchasing the lens
from the home company.

Rough lumber is a manufactured
product and as such would be exempt
from taxation for twelve months if it
remained in the hands of the pro-
ducer, the Attorney General's Office
has advised the tax assessor of Wash-
ington County, Alabama.

The assessor asked, the opinion ex-
plained, whether lumber was subject
to taxation when sawed and stacked
in lumber yards or sheds by the
owner of a sawmill.

Engineering News Section

BRIDGES

SAN DIEGO, Cal.—Plans for the proposed bridge to carry First St. through to Mission Hills have been filed with City Clerk Allen H. Wright. The total estimated cost is \$146,235.51. Thomas J. Allen and R. Robinson Rowe, engineers, prepared the plans. The proposed bridge will be 463 feet 5 inches in length, with a 36-ft. roadway and two 6-ft. walks. The central span is 200 ft. in a three-hinged spandrel braced parabolic arch. Two 80-ft. trusses are on the north side of bridge and one 80-ft. truss and one 20-ft. stringer span on the south. The maximum height of the deck above the lowest point of the canyon is approximately 102 ft. An 8-in. reinforced concrete floor is provided. Plans call for an assessment district. The project has been approved by John C. Shaw, as consulting engineer.

CHICO, Butte Co., Cal.—City council petitioned to construct bridge over Little Chico Creek in Normal Ave. Taken under advisement.

LOS ANGELES, Cal.—Until October 27, 2 P. M., bids will be received by county supervisors to construct reinforced concrete bridge in Pomona Boulevard over Alhambra Wash; will consist of one reinforced concrete arch span, 100 ft. in length and an overall width of 100 ft. Roadway will be 74 ft. wide. Plans on file in office of clerk.

LOS ANGELES COUNTY, Cal.—W. F. Teschke, Hollywood, at \$39,544 awarded contract by State Highway Commission to construct bridge over Alamitos Bay near Long Beach consisting of fifteen 19 ft. timber spans with concrete deck and one 41 ft. 4 in. steel beam removable span.

YUBA CITY, Sutter Co., Cal.—County Grand Jury, in annual report, recommends to the county supervisors the replacement of Mawson bridge, the Tisdale weir bridge and the Butte Slough bridge, with modern structures.

SANTA ANA, Orange Co., Cal.—Until 11 A. M., October 14, bids will be received by county supervisors to construct protection work along Santa Ana River, bet. Chapman Ave. bridge and the Santa Fe Ry. bridge, west of the city of Orange, involving iron pipe posts with Elwood wire fencing and earth dyke. Estimated cost \$18,000, including pipe furnished by the county. Nat H. Neff, county road commissioner.

PLACERVILLE, El Dorado Co., Cal.—Until November 5, 2 P. M., bids will be received by Arthur J. Koletzke, county clerk, to construct reinforced concrete culvert over Brandon Creek near Latrobe and for a reinforced concrete girder bridge over Travers Creek, near Spanish Flat. Separate bids are wanted for each structure. Certified check 10% payable to clerk required with bid. Plans obtainable from county surveyor on deposit of \$10, returnable.

SAN LUIS OBISPO, Cal.—William Lane, Paso Robles, submitted low bid

to State Highway Commission at \$4998 to construct a timber bridge consisting of six 19-ft. spans and two 18-ft. spans on pile bents to bridge a gap in the existing structure across the Santa Maria River.

SOLANO Co., Cal.—Following bids received October 15 by State Highway Commission to widen to a clear roadway width of 28 feet, five concrete bridges between Vacaville and Dixon: G. J. Uulrich Const. Co., Modesto \$11,462
P. F. Bender, North Sacto. 12,614
Ralph Hunter, Sacramento. 18,413
Bids held under advisement.

DREDGING, HARBOR WORKS & EXCAVATIONS

SAN DIEGO, Cal.—Robt. T. Dawson, San Diego, at \$14,951 awarded contract by Bureau of Yards & Docks, Navy Department, Washington, D. C., to construct quay wall at Naval Base.

STOCKTON, San Joaquin Co., Cal.—Until October 20, 3 P. M., under Proposal No. 31-96, Specifications No. 2505, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, for clearing brush and trees from the area of Item 316, along the west bank of the San Joaquin river, on McDonald tract, between Spud Island and McDonald ramp, a distance of about 12 miles below Stockton. Specifications obtainable from above.

SACRAMENTO, Cal.—Until October 29, 3 P. M., under Circular Proposal No. 31-97, Specifications No. 2470, bids will be received by U. S. Engineer Office, California Fruit Bldg., for raising existing levee along the westerly side of Yolo By-Pass, beginning at a point about 0.9 mile southeasterly of "Yolano" station on the Sacramento Northern Railroad, and extending to the Pump House at the southeast corner of Reclamation District No. 2068. Plans obtainable from above.

MARYSVILLE, Yuba Co., Cal.—Hemstreet & Bell, Marysville, sublets contract to LeTourneau Manufacturing Co., 122 Moss Ave., Stockton, to construct 8700 lin. ft. levee on the Feather river. (This work for U. S. Engineer Office, California Fruit Bldg., Sacramento).

LOS ANGELES, Cal.—Plans are being prepared in the office of the United States District Engineer, 751 S. Figueroa St., for the construction of a concrete caisson type extension to the present breakwater between Los Angeles and Long Beach harbor.

Plans call for the erection of concrete boxes, 100 feet long, 50 to 60 feet high, and 35 feet wide at the top sloping up from a 60-foot base. These receptacles will be filled with rock, sand, and clay, and sunk to the bottom. A superstructure will be constructed on top to permit the jetty to protrude fourteen feet from the mean low tide line. It will take approximately 125 of the caissons to form the entire 12,500-foot extension.

RICHMOND, Contra Costa Co., Cal.—Until November 13, 3 P. M., bids will be received by U. S. Engineer Office, Customhouse, San Francisco, for furnishing sand for making fill in Richmond Harbor. Project involves approximately 195,000 cu. yds. fill. Specifications obtainable from above office.

HALF MOON BAY, San Mateo Co., Calif.—Tentative sketches were submitted at a meeting of the Coastside Civic Union at Half Moon Bay last Tuesday night for the proposed shipping and yacht harbor project for Half Moon Bay. R. Guy Smith, secretary of the organization, presented Government charts and data calling for a breakwater and other improvements in a bay space for shipping of 640 acres with an average depth of 35 ft., the total cost of the work being placed at \$2,000,000.

RICHMOND, Contra Costa Co., Cal.—Until November 13, 3 P. M., bids will be received by U. S. Engineer Office, Customhouse, San Francisco, for dredging in Richmond Harbor. Project involves approximately 94,340 cu. yds. Specifications obtainable from above office.

OAKLAND, Cal.—American Dredging Co., 255 California St., San Francisco, at \$445 cu. yd. submitted low bid to City Port Commission for clam shell dredging fronting the Ninth Ave. Pier. Pacific Coast Dredging Co., at \$4625 cu. yd., only other bidder. Taken under advisement.

IRRIGATION PROJECTS

PARADISE, Butte Co., Calif.—Until November 4, 10 A. M., bids will be received by J. E. Alley, secretary, Paradise Irrigation District, for the following work, to be let as one contract or in part:

- Item (1) furnishing:
 - 80 ft. 30-in. 10-gauge riveted steel slip-joint pipe;
 - 40 bbls. Portland cement;
 - 20 cu. yds. sand, 40 cu. yds. gravel;
 - 220 ft. 4-inch standard screw-joint pipe;
 - 1 30-in. P. Heavy-Duty Gate, Calco Model or similar, pedestal lift rod;
 - 5,000 lb. b.m. dimension lumber
- Item (2) haul all materials from Magalia station to the job.
- Item (3) damming water from tunnel, installing 30-in. pipe, wading 30-in. gate to pipe, filling tunnel with conc. over pipe and balance with loose rock, construct bulkhead, intake and screen support, etc.
- Item (4) building operating trestle and installing pedestal lift

STREET LIGHTING SYSTEMS

SANTA ANA, Orange Co., Cal.—City council declares intention (2235) to install lighting system in Flower St., bet. Santa Clara Ave. and 1150 ft. north, and portions of other streets, involving King Feronite standards, walks, repairs to curbs, walks, culverts, and pavements. 1911 and 1915 Acts. Protest hearing Oct. 13. E. L. Vegely, city clerk.

ALAMEDA, Alameda Co., Cal.—Proceedings have been started by the city council to widen Central Ave., an additional 8 ft. and install new electric lights with an underground system. Property owners petitioned for the work. The type of lighting standard has not been selected but a two-light standard conforming in design to those in the north end of Webster street as suggested. Burnett Hamilton is city engineer.

ALHAMBRA, Orange Co., Cal.—Osborn Co., 455 California Terrace, Pasadena, awarded contract by the city commission at \$15,991 to install ornamental lighting system with posts, conduits, wires, etc., in San Marino Ave., from Sixth St. to Garfield Ave., etc.

LONG BEACH, Cal.—Proceedings will be started by city shortly for an ornamental lighting system in Long Beach Blvd., between Bixby Rd. and 48th St., involving 77 standards.

MACHINERY AND EQUIPMENT

WHITTIER, Los Angeles Co., Cal.—Western Enterprise Engine Co., 1000 Alhambra Ave., Whittier, at \$21,925 awarded contract by city council to furnish five 120-h. p. gas engines, with pulleys, mufflers, idlers, etc.

OAKLAND, Cal.—Guy K. Harrington, 2841 Castro Way, Sacramento, at \$643 submitted only bid to city council to furnish and deliver one traffic-line marking machine for City Street Department. Taken under advisement.

PHOENIX, Ariz.—Until October 27, 2 P. M., bids will be received by John B. Brown, superintendent, U. S. Indian Field Service, to furnish f. o. b. shipping point specified by bidder or f. o. b. Phoenix, Arizona, one new latest improved model lightweight auto truck, ½-ton capacity, with open cab for driver, permanently equipped with steel "pick-up" body, 60-in. long, 10-in. in depth, together with tires, tools, etc. Delivery to be made 15 days after award of contract.

STRATFORD, Kings Co., Cal.—Until October 27, 8 P. M., bids will be received by E. B. Hoey, clerk, Stratford Union Elementary School District, to furnish and deliver one school bus completely equipped with capacity of 40 to 46 pupils, ages between 6 and 16 years; total cost not to exceed \$2700. Allowance to be made for 1924 T model Ford school bus, capacity 20 to 25 pupils, no longer required by the district. Further information obtainable from clerk.

PASADENA, Los Angeles Co., Cal.—Judson-Pacific Co., 60 Mission St., San Francisco, submitted low bid to the city directors to furnish electrically operated crane. Bids were taken on (1) delivered and installed, (2) without installation:

Judson-Pacific Co.—(1) \$22,300; (2) \$20,950.

Consolidated Steel Corp.—(1) \$22,510; (2) \$21,540.

Harnischfeger Corp'tion—(1) \$22,510; (2) \$21,950.

Cleveland Crane Co.—(1) \$23,338; (2) \$22,588.

Bedford Foundry—(1) \$24,400; (2) \$23,200.

Herbert's Machinery Corp.—(1) \$24,450; (2) \$23,650.

Taken under advisement.

BEVERLY HILLS, Los Angeles Co., Cal.—Until 8 P. M., Nov. 5, bids will be received by the city council for one police ambulance. B. J. Firminger, city clerk.

COALINGA, Fresno Co., Cal.—Until October 27, 7:30 P. M., bids will be received by F. J. McCollum, secretary, Coalinga Union High School District, to furnish one 5-passenger school bus for transportation of pupils; motor to be not less than six nor more than eight cylinders, and the price not to exceed \$1800. Certified check or bidder's bond in total amount bid required. Further information obtainable from secretary.

LONG BEACH, Cal.—Gardner-Denver Co., 939 Santa Fe Ave., Los Angeles, submitted low bid to city manager at \$1425 to furnish one portable air compressor; spec. C-489 Alt. 1, \$1395 less running gear, fender, tool boxes, etc.

SAN FRANCISCO — Until October 27, 3 P. M., under Proposal No. 651, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish and deliver one concrete mixer for Department of Public Works. Specifications obtainable from above.

RAILROADS

SAN FRANCISCO—The Western Pacific Railroad Co. authorized by the bonds to be sold to the highest bidder interstate commerce commission to issue \$5,000,000 of first mortgage 5% at not less than 97.5% of par and accrued interest. Proceeds will be used for construction purposes.

FIRE EQUIPMENT

BEVERLY HILLS, Los Angeles Co., Cal.—Until 8 P. M., Nov. 5, bids will be received by the city council for

furnishing one booster pump and hydro-pressure tank. B. J. Firminger, city clerk.

VENTURA, Ventura Co., Cal.—The city council will probably authorize the purchase of a 1000-gallon fire engine pumper as equipment for the new suburban fire station located in the east part of the city.

RESERVOIRS AND DAMS

LAKEPORT, Lake Co., Calif.—As previously reported, Smith Bros. Co., Eureka, at \$2,932 awarded contract by city council to construct reinforced concrete reservoir (excavation completed) in connection with municipal water system. Following is complete list of bids received:

Smith Bros. Co., Eureka.....	\$2,932
F. R. Phillips, Lakeport.....	3,066
N. Peach, Lakeport.....	3,140
Petaluma Const. Co.....	3,150
C. H. Gildersleeve, Felton.....	3,650
P. L. Burr, San Francisco.....	2,869

Reservoir will be circular type, 70-ft. diameter, 12-ft. deep, with capacity of 336,500 gallons.

PLACERVILLE, El Dorado Co., Cal.—Until November 5, 2:30 P. M., bids will be received by R. W. Browne, secretary, El Dorado Irrigation District, 685 Main St., for clearing Webster Creek Reservoir Site. Plans obtainable from secretary on deposit of \$5, returnable.

PIPE LINES, WELLS, ETC.

VENTURA, Ventura County, Cal.—Southern California Gas Co., 950 South Broadway, Los Angeles, will let contract shortly to construct 5½ miles of gas main from the company's compressor plant in Ventura Ave. to join with the present 12-inch main running through the city. Total estimated cost, \$100,000.

ORLAND, Glenn Co., Cal.—Natural Gas Corp., a subsidiary of the Standard Oil Co., will expend \$60,000 in the construction of a gas plant and installation of distributing mains. Franchise has already been granted by the city council.

SEATTLE, Wash.—Queen City Construction Co., 603 18th Avenue, South, Seattle, at \$1,207,116 submitted low bid to the Board of Public Works on lock bar steel pipe and George Nelson, 231 Summit Avenue North, Seattle, on riveted steel pipe, in connection with the Cedar River Pipe Line Project No. 1 in addition to a connection with the city's main supply lines in Beacon Ave. The bids were taken under advisement until the works board can determine alternate propositions on paint coating. Following is a complete list of the bids received:

Lockbar Steel	
Queen City Const. Co.....	\$1,207,116
Western Pipe & Steel Co.....	1,260,182
Puget Sound Bridge & Dredg- ing Co.....	1,318,518
Goetz & Brennan.....	1,332,652
L. Coluccio Co.....	1,385,027
Morrison-Knudsen.....	1,399,191
George Nelson.....	1,404,091
Riveted Steel Pipe	
George Nelson.....	\$1,313,527
Queen City Const. Co.....	1,348,582
Western Pipe & Steel Co.....	1,396,725
L. Coluccio Co.....	1,460,567
Puget Sound Bridge & Dredg- ing Co.....	1,469,627
Commercial Boiler Works.....	1,470,362
Morrison-Knudsen.....	1,548,680

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Ten Years of Uniformly Satisfactory Experience in High

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SEWERS AND SEWAGE DISPOSAL PLANTS

HILLSBOROUGH, San Mateo Co., Cal.—City council has authorized formation of a district to handle drainage of storm waters from Brewer Tract No. 2 into Bromfield and Fulton Roads, Hillsborough; estimated cost, \$9,000.

GILROY, Santa Clara Co., Cal.—City council orders extension of sewer system west of Hamlin and First Sts., a distance of several hundred feet.

SAN FRANCISCO—Until October 29 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to construct Army St. sewer between Pennsylvania Ave. and Mississippi Sts.; estimated cost, \$15,000. Project involves:

- 363 lin. ft. 2-ft. 6-in. x 3-ft. 9-in. reinforced concrete sewer;
- 464 lin. ft. 2-ft. 6-in. x 3-ft. 9-in. reinforced concrete sewer exclusive of piles;
- 827 lin. ft. 6-in. V. C. P. under-drain covered with concrete or embedded in broken rock;
- 1 reinforced concrete special struc. exclusive of piles;
- 2 brick or concrete manholes;
- 1,300 lin. ft. wood piles, below cut-off in place.

Certified check 10% payable to clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall, on deposit of \$10, returnable.

RIVERSIDE, Riverside Co., Calif.—Until Oct. 21, bids will be received by the city council to construct storm drain from the Riverside Water Co.'s canal to Tequesquite Arroyo. Est. cost, \$20,000. Bid will range from 36-in. to 54-in. R. E. Brown, city engineer.

NEWPORT, Orange Co., Cal.—Currie Eng. Co. has completed a preliminary survey and has announced the probable cost for a sewage disposal system for Newport and Balboa. The work, which would be carried out under the Mattoon Act, is estimated to cost \$185,000.

WESTMORELAND, Imperial Co., Cal.—Until 7:30 P. M., October 23, new bids will be received by the Westmoreland Sanitary District to construct Inhoff Tank and Main outfall sewer, in accordance with plans which may be obtained from the Currie Engineering Co., 219 Anderson Bldg., San Bernardino, on deposit of \$5 of which \$2.50 is returnable. The approximate quantities are:

- (1) Inhoff tank;
- (2) 3000 ft. 12-in. vit. sewer.

O. U. Miracle of San Diego was previous low bidder at \$13,966 (Sept. 4) but failed to sign the contract after award had been made to him.

MOUNT VERNON, Wash.—Joe Colucia, 1425 Hanford St., Seattle, at \$92,840 submitted low bid to the city council for approx 4 miles of clay pipe sewers, including pump houses, sewer pumps, manholes and catch-basins. Sam Macri, 511 21st Ave. North, Seattle, at \$92,727 low on concrete pipe. Bids taken under advisement. C. E. Orisy, engineer, Republic Bldg., Seattle.

WATER WORKS

UKIAH, Mendocino Co., Cal.—Until October 22, 8 P. M., bids will be received by Fred L. Bosworth, city clerk, to furnish and deliver: Two 4-in. No. 400 Screwed gate valves;

Three single wharf hydrants, 4-inch pipe inlet with 2½-inch Pacific Coast thread outlet with caps and chains and with nuts instead of wheels;

Four 4-in. black mall, tees—dipped; Three 4-inch black mall elbows—dipped; 1600 feet 4-inch National Standard Black Dipped Pipe;

Two 4-in. nipples dipped;

Two 2x4 bushing;

Twenty-four saddles to fit 4-inch pipe tapped for ¾-inch outlet;

One saddle to fit 4-inch pipe tapped for 2-inch outlet;

Two bundles ¾-inch black dipped National Pipe;

250 ft. 2-inch black dipped National Pipe.

Certified check 10% payable to city required with bid.

TERRA BELLA, Tulare Co., Cal.—Universal Air Brush Co. at \$653c ft. (\$11,000) awarded contract by Terra Bella Irrigation District to clean and paint main pipe line between Valley Station and the main pumping station north of Terra Bella, a distance of approx. 4 miles; also at \$430 to clean and paint steel reservoir at Station No. 4.

DENVER, Colo.—Pacific States Cast Iron Pipe Co. submitted lowest regular bid to the U. S. Bureau of Reclamation at \$2173.92 and will be awarded the contract for furnishing of cast iron pipe and fittings for a water pipe line to be installed at Coalville, Utah, involving:

- (a) 1566 ft. 8-in. inside diameter cast iron bell and spigot pipe;
- (b) 8-in. inside diameter cast iron bell and spigot pipe bends as follows:

- 2 2½ degree
- 4 1½ degree
- (c) 1 8-in. flanged wedged gate valve, rising stem, bronze mounted, faced and drilled, for 125 lbs. water pressure with 2-ring gaskets and 2 sets flanged bolts.
- (d) 1 8-in. flanged fish-trap, Trident or equal, with 1 ring gasket and 1 set flange bolts;
- (e) 2 8-in. diameter x 20-in. length cast iron pipe, one end with standard A. S. M. E. flange, faced and drilled, one end with spigot;
- (f) 2 8-in. inside diameter cast iron adapters, one bell end to fit 8-in. C. I. bell and spigot pipe, one end to fit 8-in. inside diameter wood stave pipe.

The other bids were: American Cast Iron Pipe Co., \$1632.87 f. o. b. Birmingham, Ala.; Crane O'Fallon Co., \$1693.26, pipe and fittings f. o. b. Birmingham; valves, etc. f. o. b. Chicago; National Cast Iron Pipe Co., \$2352 f. o. b. Coalville, Utah.

SAN JOSE, Santa Clara Co., Cal.—Hearing on the petition seeking reclamation of Santa Clara County Waterworks District No. 1 (near Palo Alto), will be considered by the Board of Supervisors on November 3. After formation the district proposes to vote bonds of \$30,630 to finance construction of a domestic water distributing system.

WILLOWS, Glenn Co., Cal.—State Reclamation Board has completed purchase of land for the Moulton weir in the Sacramento river, 8 miles above Colusa and construction is expected to be started January 1. The weir, to be financed jointly by the Federal and State governments, will become part of the Sutter By-Pass project and, with flowage rights, will cost about \$600,000.

RED BLUFF, Tehama Co., Calif.—Pacific States C. I. Pipe Co., 111 Sutter St., San Francisco, at \$18 ft., awarded contract by city council to furnish 1,000 ft. 4-in. c. i. pipe, class 100. Bid also submitted by C. Clausen Co., Grinnell Co. of the Pacific, American C. I. Pipe Co., all of San Francisco, and Crane Co. of Sacramento.

EUREKA, Humboldt Co., Cal.—John Griffith, city superintendent of public works, will ask bids at once to furnish 1,800-ft. of 16-in. cast iron pipe for water department.

SAN MATEO, San Mateo Co., Cal.—Until October 20, 8 P. M., bids will be received by E. W. Foster, City Clerk, to construct pumping plant in San Mateo City Park. Certified check 10% required with bid. Plans on file in office of clerk.

MILBRAE, San Mateo Co., Cal.—Election will be held shortly in Milbrae Utility District to vote bonds of \$6000 to finance construction of water system. Geo. A. Kneese, Courthouse, Redwood City, engineer for district.

EUREKA, Humboldt Co., Cal.—Mercer-Fraser Co., Eureka, at \$16,000 awarded contract by Pacific Gas & Electric Co., 245 Market St., San Francisco, to construct extension to salt water intake in the south line of Whipple street west of Railroad Avenue.

SAN FRANCISCO—Until October 20 3 P. M., under Proposal No. 648, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish standard weight galvanized steel pipe for the Municipal Water Department; pipe to be made in the U. S. A., treated and coupled for mill shipment in random lengths, f.o.b. 639 Bryant St., San Francisco as follows:

- 15,000 feet ¾-inch.
- 2,000 feet 1-inch.
- 15,000 feet 2-inch.

Specifications obtainable from city purchasing agent.

BEVERLY HILLS, Los Angeles Co., Cal.—Until 8 P. M., Nov. 5, bids will be received by the city council for 6320 ft. 3-in., 4-in. and 6-in. water mains. Salisbury, Bradshaw & Taylor consulting engineers.

EUREKA, Humboldt Co., Cal.—Until October 21, 8 P. M., bids will be received by John Griffith, city superintendent of public works, to furnish 1,800 lineal feet of 16-inch class B cast iron water pipe or its equal with bell and spigot joint, f.o.b. wharf, Eureka, delivery to be made not sooner than 5 days after no more than 60 days after award of contract.

CHANDLER, Ariz.—Election will be held October 27 in South Chandler Water Conservation District to vote bonds of \$480,000 to finance water system improvements. W. C. Adams, secretary of district.

SAN FRANCISCO—American Cast Iron Pipe Co., Balboa Bldg., at \$1.298 lin. ft. awarded contract by City Purchasing Agent to furnish and deliver 2,500-ft. 12-in. cast iron pipe for Water Department; to be centrifugally cast iron pipe, bell and spigot type in 16-ft. lengths, Class 150, tar-coated.

PLAYGROUNDS & PARKS

BEVERLY HILLS, Los Angeles Co., Cal.—Until 8 P. M., Nov. 5, bids will be received by the city council for landscape work in the city park. B. J. Firminger, city clerk.

COLUSA, Colusa Co., Cal.—Chamber of Commerce has started movement to secure lands occupied by the old high school in the east residential section of the city on which it is proposed to establish a municipal park. L. E. Starkweather, president of the Colusa Rotary Club is in charge of the move.

STREETS AND HIGHWAYS

SEBASTOPOL, Sonoma Co., Cal.—City Council declares intention (1935-A) to improve one block of Burnett St., involving grading; 5-inch concrete pavement; concrete curbs. 1911 Act. Bond Act 1915. Hearing Nov. 3. F. G. McFarlane, city clerk.

SAN FRANCISCO.—Bureau of Engineering, Department of Public Works, 3rd floor, City Hall, completes specifications to improve crossing of Oxford and Silliman Sts.; estimated cost \$1660. Project involves:

- 63 lin. ft. armored concrete curb;
- 3 brick catchbasins, complete;
- 90 lin. ft. 10-in. V. C. P. culverts;
- 284 sq. ft. 1-course conc. sidewalks;
- 3,286 sq. ft. asph. conc. pave., 2-inch asph. conc. surface with 6-in. class F concrete base.

MENLO PARK, San Mateo Co., Cal.—Until October 21, 8 P. M., bids will be received by Fannie L. Kurtz, city clerk, (30-2) to improve Hoover St., for its entire length and Oak Grove Ave., from point 45 ft. s. w. of Hoover St. to pt. 45 ft. s. e., and Valparaiso Ave. from pt. 45 ft. s. w. of Hoover St. to pt. 45 ft. n. e., involving grading; cem. conc. curbs and walks; part circle galv. iron culverts; 4-in. water-bound rock macadam base pavement with 1½-inch Colas surface; vit. salt glazed pipe sewer laterals. 1911 Act. Bond Act 1915. Certified check 10% payable to city required with bid. Plans on file in office of clerk.

MONTREY, Monterey Co., Cal.—City Council declares intention (3023) to construct cement concrete sidewalks in portions of Pacific St., between Martin and Decatur Sts. 1911 Act. Bond Act 1915. Hearing Oct. 28. Clyde A. Dorsey, city clerk.

SAN FRANCISCO.—Bureau of Engineering, Department of Public Works, 3rd floor, City Hall, completes specifications to improve De Haro Street bet. Alameda and Division Sts.; estimated cost \$6350. Project involves:

- 630 lin. ft. armored concrete curb;
- 150 lin. ft. V. C. P. side sewers;
- 50 lin. ft. 10-in. V. C. P. culvert;
- 2 brick catchbasins;
- 17,450 sq. ft. asph. conc. pavement, 2-in. asph. conc. surface, 6-in. class F concrete base.

KERN COUNTY, Cal.—As previously reported, bids will be received Nov. 5, by State Highway Commission to grade and pave with cement concrete, 0.2 mile near Wasco. Project involves:

- (1) 18,950 cu. yds. rdwy. excav. without class;
- (2) 210 cu. yds. struc. excavation;
- (3) 3000 sq. yds. subgrade for pave.;
- (4) 610 cu. yds. class A Portland cement concrete (pavement).
- (5) 10 cu. yds. class A Portland cement concrete (structures).
- (6) 15,00 lbs. bar reinf. steel (pavement and structures).
- (7) 27 lin. ft. 12-in. std. reinf. conc. pipe;
- (8) 32 lin. ft. 18-in. do.;
- (9) 61 lin. ft. 36-in. do.;
- (10) 60 lin. ft. part circle corr. metal culvert;
- (11) 370 tons crushed gravel or stone (borders);
- (12) 85 bbls. fuel oil (borders);
- (13) 50 cu. yds. remove and dispose of existing pavement;
- (14) 0.5 mi., move and reset property fences;
- (15) 520 lin. ft. laminated timber guard rail;
- (16) 13 stations finishing roadway;
- (17) 10 each, monuments, complete in place.

The State will furnish part circle corru. metal culvert and cast steel frames and covers for drop inlets.

CRESCENT CITY, Del Norte Co., Cal.—Pacific States Construction Co., Call Bldg., San Francisco, awarded contract by county supervisors to rock and oil highway up the coast from Fifth and Wendel streets to Pacific Ave., and thence down Pacific Ave. to connect with H street, a block above the high school; rock on road, \$2.45; grading, \$300, lump sum; Bitumuls application, 28½¢ yd.; header boards, 5¢ lin. ft.

SANTA CRUZ, Santa Cruz Co., Cal.—County supervisors declare intention to improve Palm Ave. from Lake Ave. to Watsonville city limits, including crossings, involving asphaltic macadam surface on 4-in. waterbound macadam base, cement concrete curbs and gutters. County Improvement Act 1921. Bond Act 1915. County will pay \$2,000 of cost from Pajaro Road Section 1 fund. Hearing November 7. H. E. Miller, county clerk. Lloyd Bowman, county surveyor.

SAN FRANCISCO.—Until October 29 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to improve:

Alameda St. bet. Potrero Ave. and York St. and west line of York Street including intersection of Hampshire St., involving grading. Est. cost, \$7,200.

Crossing of Kirkwood Avenue and Mendall St., involving grading, armored conc. curbs, one-course cement sidewalks, brick catchbasins, 2-inch asph. conc. pave. with 6-in. class F conc. base. Est. cost, \$2,000.

Crossing of Delano Ave. and Mount Vernon Ave., involving armored conc.

curbs, two-course cement conc. sidewalks; 8-in. and 12-in. vit. clay pipe sewers, brick manholes, brick catchbasins, 2-in. asph. conc. pave. on 6-in. class F conc. base.

Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall.

SAN FRANCISCO.—Until October 29 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to improve:

North half of Green St. from point 62-ft. 7-in. from east line of Polk St. to point 87-ft. 6-in. east of Polk St., involving removal of sand from roadway and sidewalk and construction of bulkhead. Est. cost \$400.

Uncompleted portions of 26th Ave. bet. Ortega and Pacheco Sts.; 41st Ave. bet. Noriega and Ortega Sts., etc., involving armored concrete curbs, side sewers, 6-in. conc. base pavement with 1½-in. asph. conc. surface. Est. cost, \$6,000.

44th Ave. bet. Moraga and Noriega Sts. (where not) involving armored concrete curbs, vit. clay pipe sewers, 2-in. asph. conc. surface with 6-in. class F concrete base. Est. cost \$1600. Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall.

SAN FRANCISCO.—Until October 29 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to improve:

Cayuga Ave. from Onedia Ave. to Seneca Ave., and Seneca Ave. from Onedia Ave. to Alameda Blvd., etc., involving grading, armored concrete curbs, 1-course concrete sidewalks, 8-in. and 12-in. vitrified clay pipe sewers, side sewers, brick catchbasins, 2-in. asph. conc. surface pavement on 6-in. class F concrete base. Est. cost \$26,000.

Portions of Saturn St., 15th St. Ordway, etc., involving construction of artificial stone sidewalks. Est. cost \$800.

Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall.

COLUSA COUNTY, Cal.—George McDaniel, Marysville, at \$743 awarded contract by State Highway Commission to construct 9 miles of property fence on state highway between Bear Creek and 8 miles west of Williams.

KERN COUNTY, Cal.—Until November 5, 2 P. M., bids will be received by State Highway Commission to grade and pave with Portland cement concrete, 0.2 mile near Wasco.

See call for bids under official proposal section in this issue.

HILLSBOROUGH, San Mateo Co., Cal.—City council has ordered bids called to pave Arden Road and roads in Brewer Tract No. 3.

HILLSBOROUGH, San Mateo Co., Cal.—H. E. Casey Co., B. St., and Third Ave., San Mateo, at \$12,550 submitted low bid to city council to widen shoulders of Crystal Springs road within city limits. San Mateo Feed & Fuel Co. only other bidder at \$1507. Taken under advisement.

HILLSBOROUGH, San Mateo Co., Cal.—McCarthy Co., San Mateo, at \$580.50 submitted low bid to city council to repair Forest View Road. C. L. Jordan at \$666.50, only other bidder. Taken under advisement.

ALAMEDA, Alameda Co., Cal.—City has started proceedings to widen Central Ave., by an additional 8 ft. involving construction of curbs, gutters and replacement of pavement. Burnett Hamilton is city engineer.

CONTRACTORS' MACHINE WORKS

SPECIALISTS ON REPAIRING AND REBUILDING OF

Bunkers, Hoppers, Chuting, Conveyors, Rollers, Mixers, Hoists, Shovels, Tractors, Pavers, Crushers, Drag Lines, Elevators, Car Unloaders, and other Road and Building Equipments;

BLACKSMITHING AND WELDING

Builders of Rosenberg Portable Car Unloaders

CREAR & BATES

57 Zoe St., bet. 3rd and 4th, off Brannan St.

Phone GA4field 4374

San Francisco

HILLSBOOUGH, San Mateo Co., Cal.—City council plans immediate paving of the Ranchlagh and Ericson Roads.

PITTSBURG, Contra Costa Co., Cal.—Hutchinson Co., 1450 Harrison St., Oakland, at \$6000 awarded contract by California Water Service Co. to construct rock road from county highway near West Pittsburg to company's Mallard pumping station.

VENTURA, Ventura Co., Cal.—Southwest Paving Co., 801 Washington Bldg., Los Angeles, at \$2,300 ton, submitted low bid to county supervisors to surface shoulders on Huenehne Rd., Saviers Rd., etc., involving 14,000 tons asphaltic surfacing mixtures. V. R. Dennis Construction Co. next low at \$2.48 ton. Taken under advisement.

ALAMEDA, Alameda Co., Cal.—City Council has started proceedings to open and pave Third street north of Pacific Avenue. An assessment district will be organized to finance the improvements. Burnett Hamilton, city engineer.

SAN FRANCISCO, Fay Imp. Co., Phelan Bldg., at \$2,996 awarded contract by Board of Public Works to improve Kirkham St. bet. 16th and 17th Avenues.

SEBASTOPOL, Sonoma Co., Cal.—S. M. McGaw, San Rafael, at \$12,705.86 awarded contract by city council (S.S.-a) to improve High street, bet. Calder and Maple Aves., and bet. Maple and Palm Aves., and Palm and McFarland Aves., involving grading; 5-inch cement concrete pavement; cement curbs.

WATSONVILLE, Santa Cruz Co., Cal.—City council declares intention (1930) to improve Roosevelt St. from California to Stanford St., involving grading, macadamized and oiled with asphaltic oil, concrete curbs and gutters. M. M. Swisher, city clerk. H. B. Kitchen, city engineer.

REDWOOD CITY, San Mateo Co., Cal.—Until November 3, 10 A. M., bids will be received by Elizabeth M. Kneese, county clerk, to repair and pave a portion of Hillside Boulevard, formerly known as San Bruno Ave., in First Supervisorial District. Bond of 25% of contract required of successful bidder. Specifications obtainable from George A. Kneese, county surveyor.

SAN JOSE, Santa Clara Co., Cal.—City Council has started proceedings to improve Morlan Ave., bet. Santa Clara and Thirtieth Sts., and Vermont St., bet. Myrtle and Elm Sts., also for Chapman and Morse Sts., bet. Singletary and Fremont Aves., involving paving, curbs, gutters, etc. Wm. Popp, city engineer.

ORMSBY - LYON COUNTIES, Nev.—Dodge Bros., Fallon, Nev., at \$43,842.13 awarded contract by State Highway Commission for 7.68 miles of highway from Carson City two miles east of Mound House, involving 54,800 cu. yds. excav. unclass.; 79,906 yards sta. overhaul; 7.63 miles prepare subgrade and shoulders; 1450 cu. yds. selected borrow excavation in place; 99 lin. ft. remove corr. metal pipe culverts; 22,600 cu. yds. crushed rock or crushed gravel surface in place; 400 cubic yards crushed rock or crushed gravel in stockpile; 6 cu. yds. class A and 58 cu. yds. class B conc.; install 892 lin. ft. 18-in., 754 lin. ft. 24-in., 90 lin. ft. 30-in. and 226 lin. ft. 36-in. corr. metal pipe; 34 monuments; lump

sum, remove rubbish from right of way; 5621 lin. ft. construct fence; 2436 lin. ft. remove fence; 2 furnish and install posts or Federal aid markers. Flankan Warehouse Co., Reno, at \$2,381.92 awarded contract to furnish and deliver culverts in connection with this project.

OAKLAND, Cal.—Heafey-Moore Co., 314 High St., Oakland, at \$6.45 per ton submitted low bid to City Port Commission to pave with asphalt concrete A St., between Warehouses A and B on the Outer Harbor Terminal. Complete list of bids, all taken under advisement, follows:

	Per Ton
Heafey-Moore Co.,	\$ 6.54
Central-Calif. Roads Co.,	8.50
Hutchinson Co.,	10.42

SAN FRANCISCO.—Until October 29 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to improve Section C of Alameda Boulevard; estimated cost \$25,000. Project involves:

1,520 lin. ft. 6-in. open tile drain in broken rock;
50 lin. ft. 6-in. V. C. P. drain connections to manholes;
4,620 lin. ft. 8-in. V. C. P. sewer;
5,700 lin. ft. 12-in. do;
900 lin. ft. 15-in. do;
550 lin. ft. 18-in. do;
120 lin. ft. 21-in. do;
165 8x6-in. Y or T branches;
172 12x6-in. do;
30 15x6-in. do;
17 18x6-in. do;
4 21x6-in. do;
62 brick manholes;
54,000 gals. fuel oil for oiling boulevard sundruid in place;
400 lbs. seed barley for slope planting in place.

Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall.

HUMBOLDT CO., Calif.—Following bids received Oct. 15 by State Highway Commission to grade and surface with untreated crushed gravel or stone, 0.4 mile at High Rock Hill: Chiegrist & Sutros, S. F.,

Hemstreet & Bell, Marysville,

Englehart Paving & Const. Co.,

Eureka,

J. B. Galbraith, Petaluma,

Bids held under advisement.

LOS ANGELES Co., Cal.—Carpenter Bros., Inc., Beverly Hills, at \$50,545 awarded contract by State Highway Commission to grade and pave with Portland cement concrete, 1 mile at Castaic Creek.

SAN MATEO COUNTY, Cal.—Frederickson & Watson and Frederickson Bros., 354 Hobart St., Oakland, at \$129,819 awarded contract by State Highway Commission to surface with bituminous treated crusher run base 7.3 miles, between San Mateo and Redwood City.

SAN FRANCISCO.—California Construction Co., Standard Oil Bldg., at \$174 awarded contract by Board of Public Works to improve San Mateo Ave. between San Diego and Niantic Ave. (where not), involving armored concrete curbs; 6-inch vit. clay pipe side sewers; 2-in. asph. conc. surface pave, on 6-in. class F conc. base.

ORMSBY - LYON COUNTIES, Nev.—Dodge Bros., Fallon, Nev., at \$43,842.13 submitted low bid to State Highway Commission for 7.68 miles of highway from Carson City two miles east of Mound House, involving 54,800 cu. yds. excav. unclass.; 79,906 yds. sta. overhaul; 7.63 miles prepare sub-

grade and shoulders, 1450 cu. yds. selected borrow excavation in place; 99 lin. ft. remove corr. metal pipe culverts; 22,600 cu. yds. crushed rock or crushed gravel surface in place; 400 cu. yds. crushed rock or crushed gravel in stockpile; 6 cu. yds. class A and 58 cu. yds. class B conc.; install 892 lin. ft. 18-in., 754 lin. ft. 24-in., 90 lin. ft. 30-in. and 226 lin. ft. 36-in. corr. metal pipe; 34 monuments; lump sum, remove rubbish from right of way; 5621 lin. ft. construct fence; 2436 lin. ft. remove fence; 2 furnish and install posts or Federal aid markers. State will furnish corr. metal pipe culverts and hand couplings f.o.b. cars Carson City. Other bids, all taken under advisement, are: Ishell Const. Co., Carson City, \$41,137.75; Nevada Rock and Sand Co., Reno, \$44,367.63.

SAN FRANCISCO.—E. J. Treacy, Call Bldg., at \$3,962 awarded contract by Board of Public Works to construct sidewalks and walls in Grand View Ave. bet. north and south intersections with Market St.

MONTEREY, Monterey Co., Calif.—Until October 28, 7 P. M., bids will be received by Clyde A. Dorsey, city clerk, to lay brick paths and construct brick pavement in and over the recreational area in the Friendly Plaza, adjoining Colton Hall. City will pay 75% of the contract price upon completion of the work and the remaining 25% 35 days thereafter. Certified check 10% payable to city required with bid. Plans on file in office of the clerk.

MONTEREY, Monterey Co., Cal.—City council declares intention (3020) to construct 4-inch cement concrete sidewalks in Lighthouse Ave., between north line of U. S. Military Reservation and common boundary line between the city of Pacific Grove and the city of Monterey. 1911 Act Bond Act 1915. Hearing October 28. Clyde A. Dorsey, city clerk.

OFFICIAL PROPOSALS

October 10, 1930

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received at the office of the State Highway Engineer, Public Works Building, Sacramento, California, until 2 o'clock P. M., on November 5, 1930, at which time they will be publicly opened and read, for construction in accordance with the specifications therefor, to which special reference is made, of portions of State Highway, as follows:

Kern County, near Wasco (VI-Ker-33-D), about two-tenths (0.2) mile in length, to be graded and paved with Portland cement concrete.

Proposal forms will be issued only to those contractors who have furnished a verified statement of experience and financial condition in accordance with the provisions of Chapter 641, Statutes of 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Bids will not be accepted from a contractor to whom a proposal form has not been issued by the Department of Public Works.

Plans may be seen, and forms of proposal, bonds, contract and specifications may be obtained at the said office, and they may be seen at the offices of the District Engineers at

Los Angeles and San Francisco, and at the office of the District Engineer of the district in which the work is situated. The District Engineers' offices are located at Eureka, Redding, Sacramento, San Francisco, San Luis Obispo, Fresno, Los Angeles, San Bernardino and Bishop.

A representative from the district office will be available to accompany prospective bidders for an inspection of the work herein contemplated, and Contractors are urged to investigate the location, character and quantity of work to be done, with a representative of the Division of Highways. It is requested that arrangements for joint field inspection be made as far in advance as possible. Detailed information concerning the proposed work may be obtained from the district office.

No bid will be received unless it is made on a blank form furnished by the State Highway Engineer. The special attention to prospective bidders is called to the "Proposal Requirements and Conditions" annexed to the blank form of proposal, for full directions as to bidding, etc.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS.

C. H. PURCELL,
State Highway Engineer.

Dated October 8, 1930.

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received at the office of the State Highway Engineer, Public Works Building, Sacramento, California, until 2 o'clock P. M. on November 12, 1930, at which time they will be publicly opened and read, for construction in accordance with the specifications therefor, to which special reference is made, of portions of State Highway, as follows:

Kern County, four timber bridges from seventeen to twenty-one miles west of Wasco (VI-Ker-33-C), one composed of twelve 19-foot spans, one composed of four 19-foot spans, and two composed of two 19-foot spans each, all on framed bents with concrete footings.

Proposal forms will be issued only to those Contractors who have furnished a verified statement of experience and financial condition in accordance with the provisions of Chapter 644, Statutes of 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Bids will not be accepted from a Contractor to whom a proposal form has not been issued by the Department of Public Works.

Plans may be seen, and forms of proposal, bonds, contract and specifications may be obtained at the said office, and they may be seen at the offices of the District Engineers at Los Angeles and San Francisco, and at the office of the District Engineer of the district in which the work is situated. The District Engineers' offices are located at Eureka, Redding, Sacramento, San Francisco, San Luis Obispo, Fresno, Los Angeles, San Bernardino and Bishop.

A representative from the district office will be available to accompany prospective bidders for an inspection of the work herein contemplated, and Contractors are urged to investigate the location, character and quantity of work to be done, with a representa-

UNIT BID TABULATION

SAN MATEO COUNTY, Cal.—As previously reported, Fredrickson and Watson and Fredrickson Eros., 354 Hobart St., Oakland, were awarded contract by the State Highway Commission to surface with bituminous treated crusher run base, 7.3 miles between San Mateo and Redwood City. A complete tabulation of the unit bids received on this project follows:

- | | |
|--|--|
| (1) 73,800 tons crusher run base; | (5) 325 cu. yds. structure excavation; |
| (2) 9350 tons screenings (surf. treat.); | (6) 748 each, timber guide posts; |
| (3) 600 tons emulsified asph. (surface treatment); | (7) 76 each, culvert markers; |
| (4) 2100 bids, light fuel oil; | (8) 386 stations finishing roadway; |
- The bids follow:
- | | |
|-----------------------------|--------------------------------|
| (A) Fredrickson & Watson. | (H) Jack Casson. |
| (B) Clyde W. Wood. | (I) V. R. Dennis Const. Co. |
| (C) N. M. Ball. | (J) C. Markel. |
| (D) Esasch Bros. Const. Co. | (K) Granite Const. Co. |
| (E) M. J. Bevanda. | (L) W. A. Dontanville. |
| (F) Peninsula Paving Co. | (M) Healy-Thibbitts Const. Co. |
| (G) Hemstreet & Bell. | (N) Fred W. Nighbert. |

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	Totals
(A)	\$1.12	\$2.00	\$21.00	\$2.00	\$7.75	\$2.00	\$2.00	\$2.00	\$120,819.75
(B)	1.25	2.25	19.00	1.50	1.00	1.00	1.00	4.00	130,530.50
(C)	1.25	2.85	25.00	2.00	1.00	2.40	2.50	5.00	142,337.70
(D)	1.35	2.44	53.00	1.65	.50	2.40	2.00	3.50	143,169.70
(E)	1.42	2.40	22.75	1.76	1.50	2.50	2.50	3.00	144,421.50
(F)	1.37	2.70	25.00	2.00	1.10	4.50	5.00	6.00	151,970.50
(G)	1.44	2.65	23.00	1.72	1.00	2.40	1.90	2.50	151,691.10
(H)	1.65	2.40	21.00	1.50	1.50	1.50	1.00	4.00	163,189.50
(I)	1.46	3.50	23.00	1.80	1.50	3.00	3.00	6.00	163,328.50
(J)	1.69	2.77	24.00	1.76	1.50	2.55	2.28	5.00	173,215.63
(K)	1.80	2.45	23.50	1.80	1.00	2.75	3.00	8.75	179,615.00
(L)	1.83	2.55	23.00	1.85	2.00	2.75	2.55	5.00	181,389.59
(M)	1.85	2.25	22.90	1.75	1.00	3.00	3.00	10.00	181,639.50
(N)	2.14	3.00	25.10	2.10	1.50	2.35	2.18	5.00	208,792.98

SANTA BARBARA COUNTY, Cal.—As previously reported, Cornwall Construction Co., Santa Barbara, at \$22,362 submitted low bid to State Highway Commission October 8 to grade and pave with Portland cement concrete 0.6 mile, about ½ mile north of Santa Maria. Following is a complete list of the unit bids received:

	(1)	(2)	(3)
(1) Cornwall Construction Co., Santa Barbara.....	\$22,362		
(2) Santa Maria Construction Co., Santa Maria.....	26,227		
(3) Macco Construction Co., Clearwater.....	33,764		
4,000 cu. yds. roadway excav. (unclss.).....	\$.40	\$.45	\$.30
11,000 sta. yds. overhaul.....	.01	.02	.02
450 cu. yds. structure excavation.....	1.00	1.00	.75
160 cu. yds. remove and dispose of exist. pave.....	1.50	3.25	4.00
6,800 sq. yds. subgrade for pavement.....	.10	.10	.20
1,520 cu. yds. C.I. A. P. C. conc. (pave. & struc.).....	11.00	12.40	17.60
34,000 lbs. bar reinf. steel (pave. & struc.).....	.05	.05	.06
88 lin. ft. 30-in. corr. metal pipe.....	1.00	1.00	1.50
100 lin. ft. solid trim guard rail.....	1.50	1.50	1.00
44 tons cut dock asph. road oil.....	1.25	30.00	25.90
0.55 miles new property fence.....	700.00	500.00	500.00
32 stations finish roadway.....	5.00	4.50	15.00
8 each monuments.....	3.00	4.00	5.00

tive of the Division of Highways. It is requested that arrangements for joint field inspection be made as far in advance as possible. Detailed information concerning the proposed work may be obtained from the district office.

No bid will be received unless it is made on a blank form furnished by the State Highway Engineer. The special attention of prospective bidders is called to the "Proposal Requirements and Conditions" annexed to the blank form of proposal, for full directions as to bidding, etc.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS.

C. H. PURCELL,
State Highway Engineer.
Dated October 15, 1930.

PACIFIC ELECTRIC FILLING BIG TEXAS ORDER

During the past week the largest single shipment yet made by the Pacific Electric Manufacturing Company, consisting of six carloads of oil

circuit breakers manufactured in San Francisco, was shipped to Trinidad, Texas. Larger orders than this have been received by this fast growing San Francisco concern, but this 6-car load shipment is the largest made under any one order, according to Joseph Thompson, President, The Trinidad power house, which serves such cities as Dallas and Fort Worth, already had in use some of the San Francisco-made oil circuit breakers, and this large order confirms the satisfaction already given by this product.

ELECTRICAL INSPECTORS WILL MEET IN SACRAMENTO

The Southwestern Section, International Association of Electrical Inspectors, will hold its 1931 convention in Sacramento in October. It is expected that 200 delegates will attend the meeting.

Sacramento won the 1931 convention largely through the efforts of Carl Beaton, city electrician of Sacramento, who attended this year's convlave in Pasadena.

Contracts Awarded

Liens, Acceptances, Etc.

BUILDING PERMITS

San Francisco County

1314	Besio	Owner	4000
1315	Bernstein's	Mullen	2700
1316	Dilks	Owner	3250
1317	Morris	Owner	1000
1318	Crocker	California	4000
1319	Johnson	Owner	3000
1320	Morris	Owner	4000
1321	Levy	Childress	1000
1322	Kennedy	Erickson	4000
1323	Donnelly	Owner	15000
1324	Carter	Owner	10000
1325	McCullough	Owner	3878
1326	Meyer	Owner	20000
1327	Meyer	Owner	5000
1328	Kennedy	Owner	4000
1329	Leask	Owner	4000
1330	Parker	Atwell	5000
1331	Gordon	Owner	4000
1332	Gall	Owner	8000
1333	Swiss	Novelty	2400
1334	Larson	Owner	4000
1335	Ohlson	Owner	3500
1336	Horn	Owner	3500
1341	Samidt	Owner	6500
1338	Sabatelli	Amatore	4500
1339	Arnott	Owner	8000
1340	Tiscornia	Owner	3500
1341	Samidt	Owner	1900
1342	Walker	Thulin	3700
1343	Erwinschaff	Owner	2000
1344	Aronson	Owner	1000
1345	Eggers	Erickson	4000
1346	Mirsky	Standard	3000
1347	Fireman	Owner	2000
1348	Terish	Owner	1000
1349	Mirsky	Standard	3000
1350	Standard	Owner	1200
1351	Hancock	Owner	3500
1352	Leib	Elvin	1000
1353	White	Owner	4000
1354	Holden	Owner	1500
1355	Johns	Owner	7000
1356	Swensen	Owner	3000
1357	Larner	Owner	1500

DWELLING

(1314) S CAYUGA 25 Rousseau; one-story and basement frame dwelling.
Owner—L. Besio, 439 Lisbon St.
Architect—None. \$4000

ALTERATIONS

(1315) 127 POWELL ST.; alterations for drug store.
Owner—Bernstein's Fish Grotto, 123 Powell St.
Architect—None.
Contractor—Mullen Manufacturing Co., 60 Rausch St. \$2700

DWELLING

(1316) W FAXON bet. Lakeview & Grafton; one-story and basement frame dwelling.
Owner—H. A. Dilks, 255 Faxon Ave.
Plans by B. K. Dobkowitz, 25 Montecrey Blvd. \$3250

ALTERATIONS

(1317) E WEST PORTAL 50 S 14th Ave.; alterations to miniature golf course.
Owner—C. A. Morris, 130 Turk St.
Architect—None. \$1000

ALTERATIONS

(1318) NW MONTGOMERY & Post; alterations to bank building.
Owner—Crocker First National Bank, Montgomery and Post Sts.
Engineer—J. D. Galloway, 1302 Crocker 1st National Bank Bldg.
Contractor—California Art Stone and Granite Works, Railroad and Magnolia Ave., South San Francisco. \$4000

DWELLING

(1319) W 44th AVE. 175 N Judah St.; one-story and basement frame dwelling.
Owner—P. Johnsen, 225 Lincoln Way.
Architect—None. \$3000

DWELLING

(1320) NW MANOR 33 SW Kenwood; one-story and basement frame dwelling.
Owner—G. W. Morris, 95 Pinehurst Way.
Plans by D. E. Jaekle, 744 Call Bldg. \$4000

ALTERATIONS

(1321) 2298 GREEN ST.; alterations to dwelling.
Owner—I. Levy, 2298 Green St.
Architect—None.
Contractor—H. K. Childress, 854 Shradler St. \$1000

DWELLING

(1322) W FUNSTON 192 S Santiago; one-story and basement frame dwelling.
Owner—Mr. Kennedy, 3270 21st Ave.
Architect—None.
Contractor—H. Erickson, 972 Chenery. \$4000

ALTERATIONS

(1323) SE OCEAN AVE. and Ortega; alterations to raise dwelling for store.
Owner—J. Donnelly, 200 Ocean Ave.
Architect—None. \$1500

RESIDENCE

(1324) W LAKE at junction of Cammino Del Mar and Sea Cliff; 3-story and basement frame residence.
Owner—C. J. Carter, 531 Hyde St.
Architect—E. M. Sharpe, 525 Market. \$10,000

ALTERATIONS

(1325) 2670 PIERCE ST.; alterations to residence.
Owner—Captain Richard McCullough, 2670 Pierce St.
Plans by A. D. Dorr, 650 Laguna Honda Blvd. \$3375

DWELLINGS

(1326) N ROCKDALE 185 E Isola; five 1-story and basement frame dwellings.
Owner and Builders—Meyer Bros., 727 Portola Drive.
Plans by D. T. Burke, 727 Portola Dr. each \$4000

DWELLING

(1327) N ROCKDALE 340 E Isola; one-story and basement frame dwelling.

Owner and Builders—Meyer Bros., 727 Portola Drive.
Plans by D. T. Burke, 727 Portola Dr. \$5000

DWELLING

(1328) W SANCHEZ 50 S Twentieth St. One-story and basement frame dwelling.
Owner—J. F. Kennedy, 760 Church St., San Francisco.
Plans by B. K. Dobkowitz. \$4000

DWELLING

(1329) W TWENTY-FIRST AVE 225 S Moraga. One-story and basement frame dwelling.
Owner—G. Leask, 197 Parker Ave., San Francisco.
Architect—None. \$4000

(1330) SW NINETEENTH ST. and Sanchez. Two-story and basement frame (2) flats
Owner—Mrs. A. Parker, 3911 19th Ave., San Francisco.
Architect—None.
Contractor—H. Atwell, 599 Noe St., San Francisco. \$5000

DWELLING

(1331) W ALEMANY 50 N Santa Rosa One-story and basement frame dwelling.
Owner—H. Gordon, 312 Hanover St., San Francisco.
Architect—None. \$4000

DWELLINGS

(1332) W THIRTY-THIRD AVE 150 S Judah. Two 1-story and basement frame dwellings.
Owner—R. F. Galli, 1574 28th Ave., San Francisco.
Architect—None. \$8000

SIGNS

(1333) NO. 2122 MISSION ST. Three electric signs.
Owner—Swiss Diamond Palace, Prem. Architect—None.
Contractor—Novelty Elec. Sign Co., 292 7th St., San Francisco. \$2400

STORE

(1334) E MISSION 390 N Italy; two-story and basement frame store.
Owner and Builder—A. R. Larson, 4020 24th Street.
Architect—F. W. Dakin, 625 Market Street. \$4000

DWELLING

(1335) S MONTEREY 175 E Forester; one-story and basement frame dwelling.
Owner—H. J. Ohlsen, 2869 Harrison.
Architect—None. \$3500

DWELLING

(1336) N CAYUGA 25 E Badger; 1-story and basement frame dwelling.
Owner—J. Horn, 5044 Mission St.
Architect—None. \$3500

HALL

(1337) SW OAKDALE and Lane; 1-story and basement frame hall.
Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St.
Architect—J. J. Foley, 770 5th Ave. \$6500

DWELLING

(1338) W 26th ST 50 S Florida; one-story and basement frame dwelling.
Owner—J. B. Sabatelli, 361 Greenwich St.
Architect—None.
Contractor—F. Amatore, 1392A Hampshire St. \$4500

CAPITAL CITY TILE COMPANY

J. C. PALEN

Manager

914 Seventh Street

Sacramento - - - California

DWELLINGS
(1339) SW 16th AVE. and Rivera; two 1-story and basement frame dwellings.
Owner—J. A. Arnott, 633 Taraval St.
Architect—None. \$8000

DWELLING
(1340) E VIENNA 200 S Russia; one-story and basement frame dwelling.
Owner—J. A. Tiscornia, 31 Natick St.
Architect—None. \$3500

ALTERATIONS
(1341) NW 26th and Alabama; alterations to dwelling (roof and store front, etc.)
Owner—W. J. Schmidt, 1335 Hampshire St.
Architect—None.
Contractor—Schmidt Brothers, 1295 Hampshire St. \$1000

REPAIRS
(1342) 867 40th AVE.; repair fire damage.
Owner—W. H. Walker, 60 Brady St.
Architect—None.
Contractor—A. L. Thulin, 60 Brady St. \$5700

ALTERATIONS
(1343) 1230 MASON ST.; alter stucco front of dwelling and interior.
Owner—G. Erwinscharf, 60 Montgomery Street.
Architect—None. \$2000

ALTERATIONS
(1344) THIRD and Mission Sts.; alterations to store fronts.
Owner—A. Aronson, 518 Merchants' Exchange Bldg.
Architect—None. \$1000

DWELLING
(1345) E 31st AVE. 100 N Taraval; one-story and basement frame dwelling.
Owner—Eggers & Goldstein Realty Co. 530 Divisadero St.
Architect—None.
Contractor—H. Erickson, 972 Chenery. \$4000

DWELLING
(1346) S RIVERA 82 W 27th Avenue; one-story and basement frame dwelling.
Owner—S. Mirsky, 218 Castaneda.
Architect—None.
Contractor—Standard Bldg. Co., 218 Castaneda. \$3900

DWELLING
(1347) 764 FOERSTER; 1-story and basement frame dwelling.
Owner—B. Fireman, 780 Hayes St.
Plans by J. C. Hladik. \$2000

ALTERATIONS
(1348) 19 HENDERSON AVE.; alterations for roof.
Owner—W. Terish, 57 Post St.
Architect—None. \$1000

DWELLING
(1349) W 27th AVENUE 75 S Rivera; one-story and basement frame dwelling.
Owner—S. Mirsky, 218 Castaneda.
Architect—None.
Contractor—Standard Bldg. Co., 218 Castaneda. \$3000

ALTERATIONS
(1350) NW 19th AVE. and Noriega; alterations for steel sash canopy.
Owner—Standard Oil Co. of California, 225 Bush St.
Architect—None. \$1200

DWELLING
(1351) E 23rd AVE. 150 S Moraga; one-story and basement frame dwelling.
Owner—R. W. Hancock, 1291 5th Ave.
Architect—None. \$3500

ALTERATIONS
(1352) 100 ALMA ST.; alterations for garage.
Owner—M. Lieb, 2872 Folsom St.
Architect—None.
Contractor—A. Elvin. \$1000

DWELLING
(1353) S THOMAS AVE. 125 E Jennings; two-story and basement frame dwelling.

Owner—R. B. White, 1370 Thomas Avenue.
Architect—None. \$4000

ADDITION
(1354) S FILBERT 100 E Divisadero; addition of apartment.
Owner—St. George Holden, 2901 Russ Building.
Architect—C. F. Strothoff, 2274 15th Street. \$1500

FLATS
(1355) W BAKER 25 N Sacramento; two-story and basement frame (2) flats.
Owner—F. W. Johns, 1728 11th Ave.
Designer—Johns Bros., 1728 11th Ave. \$7000

DWELLING
(1356) E 23rd AVE. 125 S Vicente; 1-story and basement frame dwelling.
Owner—O. Swanson, 3539 Market St.
Architect—None. \$3000

GOLF SCHOOL
(1357) GEARY ST. bet. Emerson and Josephine; golf school.
Owner—Mrs. J. Lerner, 130 Lake St.
Architect—None. \$1500

BUILDING CONTRACTS

San Francisco County

No.	Owner	Contractor	Amt.
211	Hagmaier	Meinberger	65407
212	Regents	Bienfeld	26553

APARTMENTS
(211) SW STEINER and Haight 31-3x100; all work for apartment building.
Owner—Louisa Hagmaier, 222 Fillmore St.
Architect—Bliss & Fairweather, Balboa Bldg.
Contractor—Herman S. Meinberger, 342 Fourth St.
Filed Oct. 10, '30. Dated Oct. 6, '30.
Monthly payments of.....75%
Usual 35 days.....25%
TOTAL COST, \$65,407
Bond, \$32,703.50. Sureties, Charles H. Shipman, Val Meinberger, L. M. I., June 1, 1931. Plans and Spec. filed.

ALTERATIONS
(212) SUTTER and JONES STS. alterations to apartments.
Owner—Regents of the University of California.
Plans by W. P. Stephenson, University of California.
Contractor—D. L. Bienfeld, 334 30th Ave., San Francisco.
Filed Oct. 11, '30. Dated Sept. 30, '30.
Monthly payments of.....75%
Usual 35 days.....25%
TOTAL COST, \$26,558
Bond, \$13,500. Labor Materials, \$13,500. Sureties, Maryland Casualty Co. Forfeit, \$25 per day. Limit, 65 days. Plans and Spec. filed.

COMPLETION NOTICES

San Francisco County

Recorded	Accepted
Oct. 8, 1930—E 14th AVE 150 N Vicente 37-6 x 87-6. G J Elkington & Sons to whom it may concern. October 8, 1930	
Oct. 9, 1930—S SACRAMENTO ST 100 W Franklin St 39-6x137. L D Stott, Inc to whom it may concern. October 9, 1930	
Oct. 9, 1930—W SEVENTH 275 S Howard St 47-6 x W 165. A F Eickel to R Harms. October 7, 1930	
Oct. 9, 1930—S DUBOCE AVE 100 E Noe E 25 x S 105. Mary A Dempsey to J Baker. Oct. 1, 1930	
Oct. 9, 1930—E PARKER AVE 666-6 N Euclid Ave E 106 N 74-873 W 106-553 S 64-03. H O Lindeman to W R Lindeman. October 8, 1930	

Oct. 11, 1930—S NEWCOMB AVE 125 W Newhall, 25x100. J A and K J Sperow to J H Verner. October 11, 1930	
Oct. 11, 1930—N HOWARD ST. 125 E Ninth St, 50x165. Nierman & Lefkovitz and J and H Lefkovitz to J M Sommer & Co. Oct. 6, 1930	
Oct. 11, 1930—NE LOMBARD AND Steiner. Associated Oil Co to Auston Co. Oct. 2, 1930	
Oct. 14, 1930—SE ROOSEVELT Way 172-24 S Levant St 30x60. N Haggmark to Sorensen & Haggmark. Oct. 14, 1930	
Oct. 14, 1930—W THIRD AVE 225 S Irving St 25x120. L G Cock to J Callaghan. October 14, 1930	
Oct. 14, 1930—N CHESTNUT ST and E Larkin St E 53-14 N 66 E 1-104 N 71-6 W 60 S 137-6. 1090 Chestnut St Inc to Shulman-Conroy Painting Co. October 8, 1930	
Oct. 14, 1930—E DIVISADERO AND Glen Gate Ave 25x125. F Terheyden, R Allison & J Beck to F Terheyden (two completions). October 11, 1930	
Oct. 14, 1930—W 22nd AVE 150 N Lawton 25x120. A and Mrs A Holm to F Fiske. October 14, 1930	
Oct. 14, 1930—NE HAMILTON 175 NW Silliman NW 25 x NE 120, blk 37 University. Ma Tr. Thomas F and Evelyn I Barneale to whom it may concern. October 14, 1930	
Oct. 14, 1930—E CUIVIER 175 North Bosworth 25x100. Thos and M McCaffrey to Thos Cuddie. October 14, 1930	
Oct. 14, 1930—E 25th AVE 225 S Union St 25 x 120. Nils E Johnson to whom it may concern. October 14, 1930	
Oct. 14, 1930—W 28th AVE 125 N Santiago, S 21st Ave 225 S Rivera 25x120. John W and Gertrude Rogers to whom it may concern. October 10, 1930	

LIENS FILED

San Francisco County

Recorded	Amount
Oct. 7, 1930—E NINTH AVE 125 N Noriega N 25x120. H Donahue vs H S and E Klingspor. \$130	
Oct. 8, 1930—N HALE 150 W Barneveld Lot 7 Blk 8 Map Tract A, Peoples Hd Assn-2 Hayes & Carrick vs Louis R Stenman and J F Thorne. \$100	
Oct. 9, 1930—SW PACIFIC and Buchanan W 62-6 x S 127-4. Patent Scolding Co vs J Shay and J G Epp. \$297.50	
Oct. 10, 1930—S FULTON ST and W Divisadero St S 137-6 x W 137-6. Thos Skelly vs E J Brown, Thos T Cox, Shell Oil Co, L H and A Moise. \$1118.50	
Oct. 10, 1930—W ANDOVER 73-14 S Newman S 26-04 W 12-24 N 26 E 12-14 E F Thyle J Harder Jr and Thos J Martin. \$44	
Oct. 10, 1930—SW NEWMAN and Andover W 69-24 x S 26 E 70-54 N 26-04. E F Thyle vs J Harder Jr and Thos J Martin. \$44	
Oct. 11, 1930—W GUERRERO 160 S 25th S 50xW 125. Lynford & Griffin vs R Pigott Estate and Chas Henderson. \$225	
Oct. 14, 1930—S FULTON ST and W Divisadero St S 137-6 x W 137-6. C Tanner as Tanner Electric Co vs L H and H Moise, Shell Oil Co, Thos T Cox and E J Brown. \$583.71	
Oct. 14, 1930—S FULTON ST and W Divisadero St S 137-6 W 92 N 48-6 W 92 N 89. L Bosch vs L H and H Moise, Shell Oil Co and E J Brown. \$2476.60	
Oct. 14, 1930—S FULTON ST and W Divisadero St S 137-6 W 92 N 48-6 W 45 N 89 E 137-6. J A Hart as J A Hart Mill & Lbr Co vs E J Brown, Thos T Cox, Shell Oil Co, L H and H Moise. \$696.21	
Oct. 14, 1930—E THIRD AVE 75 S Cornwall S 25 x E 82-6. H Epstein	

& Son vs Frank E and Emily L Thompson \$305
Oct 14, 1930—S BESSIE ST and Shotwell St S 44 W 9-6 S 3 E 35 N 47 W 45-6. The Greater City Lbr Co vs M C Mize and N C Kocour. \$55.20
Oct 14, 1930—S FULTON AND Divisadero St S 137-6 W 92 N 48-6 W 45-6 N 89 E 137-6. J H Severtice vs L H and H Moise, Shell Oil Co, Thos Cox Service Station and E J Brown. \$530.95
Oct 14, 1930—S FULTON AND Divisadero St S 137-6 W 92 N 48-6 W 45-6 N 89 E 137-6. John Cassaretto vs L H and H Moise and E J Brown. \$443.73
Oct 14, 1930—S FULTON AND Divisadero St S 137-6 W 92 N 48-6 W 45-6 N 89 E 137-6. Alta Roofing Co vs E J Brown, L H and H Moise, Shell Oil Co and Thos T Cox. \$181
Oct 14, 1930—S FULTON AND Divisadero St S 137-6 W 92 N 48-6 W 45-6 N 89 E 137-6. Thos J Guilfoyle and J A Guilfoyle as Guilfoyle Cornice Works vs L H and H Moise, Shell Oil Co and E J Brown. \$176.43
Oct 14, 1930—S FULTON AND Divisadero St S 137-6 W 92 N 48-6 W 45-6 N 89 E 137-6. Patterson & Koster Iron Works vs E J Brown, T T Cox, Shell Oil Co. \$348.79
Oct 14, 1930—SW DIVISADERO and Fulton S 137-6 W 137-6. J S Gulliver Co, \$710.60; Rolando Lbr Co, \$1274.18; vs E J Brown, L H and H Moise, Shell Oil Co, T T

RELEASE OF LIENS

San Francisco County

Recorded	Amount
Oct 9, 1930—E STANYAN ST 100 S Oak SE 100 E 100 N 100 W 100. J Mills as Haight Plbg Co to C Anderson, A and J Hinkelmann.	
Oct 8, 1930—E STANYAN 100 S Oak 100x100, 424 Stanyan St. E Anderson to Adolf and Josephine Hinkelmann and Chris Anderson	

BUILDING PERMITS

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
1275	Nistron	Pearson	2500
1276	Ness	Owner	2500
1277	Garin	Owner	3200
1278	Loft	Nylander	5000
1279	Dienger	Owner	9750
1280	Street	Short	200
1281	Ensign	Williamson	5100
1282	Pendleton	Owner	8000
1283	Winegardner	Windsor	4800
1284	Fridrick	Dyer	2900
1285	Gilbert	Owner	36500
1286	Simi	Fox	5500
1287	Standard	Owner	1000
1288	Standard	Owner	6000
1289	Albin	Owner	3000
1290	Howard	Owner	1000
1291	Rosa	Taylor	3000
1292	Penasso	Icardi	3900
1293	Everding	Owner	1000
1294	Howard	Owner	3500
1295	Howard	Owner	3500
1296	Cirmelli	Owner	1000
1297	Howard	Owner	3500
1298	Justice	Owner	5000
1299	St Johns	Maston	1100
1300	Votelli	Owner	2500
1301	Abbott	Owner	4000
1302	Curado	Owner	2500
1303	Pfrang	Owner	6000
1304	Standard	Independent	1220
1305	Jensen	Cedarborg	26170
1306	Rider	Broderick	6250
1307	Cabral	Reimers	1600
1308	Bickett	Prentice	1650

RESIDENCE
(1275) 3211 SACRAMENTO STREET. **BERKELEY**; one-story 4-room 1-family frame residence.
Owner—Mrs. Nistron, Berkeley.
Architect—G. H. Vose, Oakland
Contractor—G. A. Pearson, 1906 Berryman St., Berkeley. \$2500

DWELLING
(1276) E FOREST HILL AVE. 500 N White, **OAKLAND**; one-story 5-room dwelling.
Owner and Builder—Joh Ness, 3590 Forest Hill Ave., Oakland.
Architect—None. \$2500

DWELLING
(1277) NO. 1300 SAN JOSE AVE., **SAN LEANDRO**. Five-room frame and stucco dwelling.
Owner—H. P. Garin, 1075 Annerly Park, San Leandro
Plans by W. W. Dixon, 1844 Fifth Ave., Oakland. \$3200

DWELLING
(1278) NO. 149 BROADMOOR, **SAN LEANDRO**. One and one-half-story 6-room frame and stucco dwelling.
Owner—E. G. Hoyt, 9910 E-14th St., Oakland.
Plans by F. T. Wood and L. H. Cox. Contractor—Nylander Bros., 633 Montclair Ave., San Leandro. \$5000

RESIDENCE
(1279) NO. 113 WILDWOOD AVE., **PIEDMONT**. One-story 7-room residence and garage.
Owner—Theo. R. Dienger, 1236 First Ave., Oakland.
Architect — Ray Keefer, 3281 Lakeshore Ave., Oakland. \$9750

ALTERATIONS
(1280) NO. 582 BOULEVARD WAY, **PIEDMONT**. Alterations.
Owner—E. C. Street, Premises.
Architect—None.
Contractor—C. W. Short, 574 Rosal Ave., Oakland. \$1200

RESIDENCE
(1281) NO. 59 SYLVAN WAY, **PIEDMONT**. One-story 5-room frame residence and garage.
Owner—E. L. Ensign, 5933 Chabot Rd., Oakland.
Architect—None.
Contractor—E. M. Williamson, 3761 Allendale Ave., Oakland. \$5100

RESIDENCE
(1282) NO. 271 SANDRINGHAM Drive., **PIEDMONT**. Two-story 8-room frame residence & garage
Owner—Pendleton & Frank, 19 Downey Place, Oakland.
Architect—P. R. Slocombe, 62 York Drive, Piedmont.
Contractor—H. C. Pendleton, 76 Lake View, Piedmont. \$5000

DWELLING
(1283) NE COR. AMY DRIVE and Masonic Ave., **OAKLAND**; one-story 5-room dwelling and 1-story garage.
Owner—J. H. Winegardner, 83 Glenn Ave., Oakland.
Architect—None.
Contractor—Geo. Windsor, 928 Kingston Ave., Oakland. \$4800

SERVICE STATION
(1284) SW COR. JONES and Encinal Aves., **OAKLAND**; one-story brick service station.
Owner—George Fridrick.

Architect—Keefer & Herberger, 3281 Lakeshore Blvd., Oakland.
Contractor—Dyer Const. Co., 701 Ray Bldg., Oakland. \$2000

APARTMENTS
(1285) N 34th St 60 E Grove Street, **OAKLAND**; three-story 42-room apartments.
Owner and Builder—Edward C. Gilbert, 581 33rd St., Oakland.
Architect—E. M. Slocombe, 62 York Drive, Oakland. \$36,000

DWELLING
(1286) 4266 FILBERT ST. (rear), **OAKLAND**; two-story six-room dwelling.
Owner—Wm. Simi, 4266 Gilbert St., Oakland.
Architect—None.
Contractor—Fox Bros., 1454 University Ave., Berkeley. \$5500

REST ROOM
(1287) 1500 UNIVERSITY Avenue. **BERKELEY**; rest room.
Owner and Builder—Standard Oil Co., 1916 Broadway, Oakland.
Architect—None. \$1000

SERVICE STATION
(1288) 1500 UNIVERSITY Avenue. **BERKELEY**; class C service station.
Owner and Builder—Standard Oil Co., 1916 Broadway, Oakland.
Architect—None. \$6000

DWELLING
(1289) 1385 ADA. **BERKELEY**; one-story 5-room stucco dwelling.
Owner and Builder—Albin Lelno, 1335 Ordway, Berkeley.
Architect—None. \$3000

ALTERATIONS
(1290) NO. 2735 BROADWAY, **OAKLAND**. Alterations.
Owner—Howard Auto Co., Premises.
Architect—None. \$1000

STORE
(1291) NO. 1174 SEVENTY-THIRD Ave., **OAKLAND**. One-story store
Owner—J. P. Rosa, 5737 Elizabeth St., Oakland.
Architect—None.
Contractor—G. Taylor, 1732 Parker St., Berkeley. \$3000

DWELLING
(1292) N FORTY-SECOND ST. 250 E Market, **OAKLAND**. One-story 5-room dwelling.
Owner—D. Penasso, 846 42d St., Oakland.
Architect—None.
Contractor—A. Icardi, 972 Alleen St., Oakland. \$3900

ROOF
(1293) NO. 1974 THOUSAND OAKS. **BERKELEY**. Tile roof.
Owner—Louis Everding, Premises.
Architect—None. \$1000

DWELLING
(1294) NO. 1545 1/2 SANTA CLARA Ave., **ALAMEDA**. One-story 5-room frame and stucco dwelling.
Owner—C. C. Howard, Premises.
Architect—None. \$3500

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San Francisco

DWELLING
(1295) NO. 1545 SANTA CLARA AVE.,
ALAMEDA. One-story five-room
frame and stucco dwelling.
Owner—C. C. Howard, 1545½ Santa
Clara Ave., Alameda.
Architect—None. \$3500

ALTERATIONS
(1296) NO. 2412 LINCOLN AVE.,
ALAMEDA. Alterations, new
foundation and stores.
Owner—M. Cirmelli, 2426 Lincoln Ave.
Alameda.
Architect—None. \$1000

DWELLING
(1297) NO. 1545 SANTA CLARA AV.,
ALAMEDA. Two-story 5-room
frame and stucco dwelling.
Owner—C. C. Howard, 1545½ Santa
Clara Ave., Alameda.
Architect—None. \$3500

DWELLING
(1298) NO. 1709 HIGH ST., **ALA-**
MEDA. One-story 5-room frame
and stucco dwelling.
Owner—N. F. Justice, 973 Pearl St.,
Alameda.
Architect—None. \$5000

ALTERATIONS
(1299) 2610 COLLEGE AVE., **BERK-**
ELEY. alterations.
Owner—St. Johns Presbyterian Church
Architect—None.
Contractor—Mastercraft Tile & Roof
Co., 1 20th St., Richmond. \$1100

RESIDENCE
(1300) 2164 BLAKE ST., **BERKELEY**
one-story 6-room 1-family frame
residence.
Owner—F. Votelln.
Architect—None.
Contractor—F. Pfaff, 1810 University
Ave., Berkeley. \$2500

DWELLING
(1301) 35 ABBOTT DR., **OAKLAND;**
two-story 5-room dwelling.
Owner and Builder—Mary Lou Ab-
bott, 5541 Merriewood Dr., Oak-
land.
Architect—None. \$4000

DWELLING
(1302) 969 43rd St. (rear) **OAKLAND**
one-story 4-room dwelling.
Owner and Builder—Amelio Curado,
969 43rd St., Oakland.
Architect—None. \$2500

DWELLING
(1303) E GOLDEN GATE AVE. 80 W
Acacia Ave. **OAKLAND;** 1-story
6-room dwelling.
Owner and Builder—H. C. Pfrang,
5659 Ocean View Drive, Oakland.
Architect—None. \$6000

SERVICE STATION
(1304) NE COR. 26th and Broadway,
OAKLAND; 1-story steel service
station and one-story steel pump
station.
Owner—Standard Oil Co., 1916 Broad-
way, Oakland.
Architect—None.
Contractor—Independent Iron Works,
1824 Chase St., Oakland. \$2300

RESIDENCE
(1305) 20 BELLEVUE AVE., **PIED-**
MONT; two-story 9-room frame
residence and garage.
Owner—Mrs. Anita O. Jensen, Wom-
en's Athletic Club, Oakland.
Architect—Albert Farr, 68 Post St.,
San Francisco.
Contractor—A. Cedarborg, 1455 Ex-
celisor Ave., Oakland. \$26,170

DWELLING
(1306) 1480 LEROY AVE., **BERKE-**
LEY; one-story 6-room dwelling.
Owner—C. and M. C. Rider, 1831 Arch
St., Berkeley.
Architect—None.
Contractor—W. L. Brodrick, 407 Koer-
ber Bldg., Berkeley. \$6250

GARAGES
(1307) S 35th ST. 150 and 170 E San
Pablo Ave., **OAKLAND;** two one-
story tile garages.
Owner—J. Cabral, 963 35th St., Oak-
land.
Architect—None.
Contractor—L. H. Reimers, 745 Walla
Vista Ave., Oakland. \$1600

SERVICE STATION
(1308) NW COR. 25th AVE. and E
14th St., **OAKLAND;** 1-story brick
and tile service station and one-
story steel service station.
Owner—Mr. Bickett, 25th Ave. and E
14th St., Oakland.
Architect—None.
Contractor—George Prentice, 4055 San
Pablo Ave., Oakland. \$1650

BUILDING CONTRACTS

ALAMEDA COUNTY

Contractor	Owner	Amount
119 Ensign	Williamson	4000
120 Kieny	Haulman	1936

RESIDENCE
(119) LOT 35 BLK B, City of Pied-
mont; general construction on 1-
story 5-room residence.
Owner—F. L. Ensign.
Architect—None.
Contractor—E. M. Williamson, 3 7 6 1
Allendale Ave., Fruitvale.
Filed Oct. 9, '30. Dated Oct. 7, '30.
When roof is on..... 750
1st coat of plaster on..... 1000
When completed..... 1000
Usual 35 days..... 1250
TOTAL COST \$4000
Specifications filed.

ALTERATIONS
(120) 2608 BUENA VISTA AVE., Al-
ameda; alter 1-story dwelling to a
2-story dwelling.
Owner—L. L. and Violet Kieny, 2608
Buena Vista Ave., Alameda.
Architect—None.
Contractor—P. R. Haulman, 1243
Boardway, Alameda.
Filed Oct. 10, '30. Dated Oct. 8, '30.
Roof sheeting is on..... \$459
When brown coated..... 459
When completed..... 459
Usual 35 days..... 459
TOTAL COST, \$1836
Limit, 60 days. Plans and Spec. filed.

COMPLETION NOTICES

ALAMEDA COUNTY

Recorded	Accepted
Oct. 8, 1930—PTN PILOT 41, Rancho de Valle De San Jose, Harrie E. and Jessie Dillon to Elbert Hyde	
.....September 27, 1930	
Oct. 8, 1930—SW GROVE ST and NW 37th St, Oakland, J B Young to Geo D Prentice Const Co	
.....October 1, 1930	
Oct. 9, 1930—LOT 100, Oak Knoll Unit C, Oakland, George Holdorf and F Monsen to whom it may concern	
.....October 8, 1930	
Oct. 9, 1930—S OUTLOOK AVE 100 ft W of T2nd Ave, Oakland, Winifred M Combs to whom it may concern	
.....October 8, 1930	
Oct. 9, 1930—OAKLAND and Berkeley, Southern Pacific Co to Hinchinson Co, Inc	
.....Sept 28, 1930	
Oct. 9, 1930—S LINE 63rd ST 100 ft E of Canning St, Karen M Madson to whom it may concern	
.....October 8, 1930	
Oct. 9, 1930—514 CENTRAL AVE, Alameda, George F Schroeder to J J Gredem & Co	
.....Oct. 9, 1930	
Oct. 10, 1930—514 POMONA AVE, Albany, Ophelia E Elliott to whom it may concern	
.....Oct. 8, 1930	
Oct. 10, 1930—3223 NEVIL ST, Oakland, John Fleming to whom it may concern	
.....October 9, 1930	
Oct. 10, 1930—1954 45th AVE, Oakland, Walter Pressler to whom	

it may concern.....October 9, 1930
Oct. 10, 1930—4807 YGNACIO AVE, Oakland, Walter Pressler to whom it may concern.....October 10, 1930
Oct. 11, 1930—LOTS 15 AND 16 Blk 3, Thousand Oaks, Berkeley, E H Horton to Alex C Wielen.....Sept. 29, 1930
Oct. 11, 1930—LOTS 7 AND 8 Blake Tract No. 3, Berkeley, West Coast Theatres Inc to A T Lane.....Oct. 8, 1930
Oct. 11, 1930—PTN LOT 147, Broadmoor Park, San Leandro, Earl and Harold Derry to Derry Bros.....October 10, 1930
Oct. 11, 1930—SW LE ROY AVE. & Virginia St, Berkeley, Ben Pearson and Casebolt Dakin to Edward Larmer & Son.....Oct. 4, 1930
Oct. 11, 1930—LOT 20 BLK 7, Re-subdivision of Ptn of North Cragsmont, Berkeley, Hubert L Person to W H Hooper.....Oct. 10, 1930
Oct. 11, 1930—NO. 4284 ATLAS AV. Oakland, Andrew Fleming to Andrew Fleming.....Oct. 11, 1930
Oct. 14, 1930—PTN LOT 1 BLK 1, Shaw Tract, Berkeley, P E Reed to S O MacDonald.....Oct. 14, 1930
Oct. 14, 1930—SE EUCLID AVE and Buena Vista Way, Berkeley, Jos M Burt to W H Hooper.....Oct. 10, 1930

LIENS FILED

ALAMEDA COUNTY

Recorded	Amount
Oct. 8, 1930—2339 OREGON Street, Berkeley, Cliff Gates vs Harry C Knight	\$206
Oct. 9, 1930—LOT 12 Cogghall Tct, Oakland, Alaska Craft Tile and Roofing Co vs Sullivan Garfinkel and C E Pugh	\$57.50
Oct. 9, 1930—LOT 25 map of the ppty of the Homestead Assn, Oakland, Golden Gate Decorators vs H E Buckland	\$82
Oct. 9, 1930—LOT 5 BLK N, Excelsior Heights, Oakland, McGrath Steel Co vs R A and Margaret Boydston and J S Bercoovich	\$1850
Oct. 9, 1930—LOT 14 and ptn Lots 13 and 15, Oxford Gardens, Oakland, Boorman Lbr Co vs Matilda Hallsten, Martin Benson	\$210.96
Oct. 10, 1930—LOT 19 ELK 3, Fruitvale Garden Farms, Oakland, A Cordoni vs Buscent Glanfenl and S B Fiengo	\$1075.00
Oct. 11, 1930—LOT 5 BLK 1, Excelsior Heights, Oakland, Thomas F Higgins (as F & J Iron Wks) vs R A and Margaret E Boydston J A and J S Bercoovich	\$314.50
Oct. 11, 1930—LOT 14 AND PTN Lots 13 and 15, Oxford Gardens, Oakland, Sunset Lumber Co vs Matilda Hallsten & Martin Benson	\$326
Oct. 11, 1930—NO. 1443 JOSEPHINE St., Berkeley, L F Edwards vs Clarence C Dakin	\$250
Oct. 11, 1930—SE FORTY-SEVENTH St. and San Pablo Ave., Emeryville, Louis Stagnaro vs S Garfinkler, Ed Carter and Chas Pugh	\$21
Oct. 14, 1930—INTER SW RUSSET St SE 54th Ave, Oakland, Staples Pfeiffer vs Sutter Co -operative Grocers and A A Wise as Amalgamated Machine Co	\$162.50
Oct. 14, 1930—Lot 275 Montclair Hgts Oakland, Warn Eros vs F I and G Guilford	\$1251.82
Oct. 14, 1930—LOT 5 BLK N, Excelsior Hgts, Oakland, Concealo Fixture Co vs M and B Boydston and J Bercoovich	\$486

RELEASE OF LIENS

ALAMEDA COUNTY

Oct. 9, 1930—LOT 45, Unit C, Oak Knoll, Oakland, C LeRoy Olson as LeRoy Olson Co to Ivan E and

Margaret F Kohlhoff and Gerald W McPherson\$103.50

BUILDING PERMITS

(San Anselmo, Marin County)

Following building permits were issued during the month of September, 1930, by the city building inspector:

C. A. Service. Dwelling. Lot 8 Blk. 2, Hawthorne Hills. Est. cost, \$3,000.

E. Rhodes. Dwelling. Lot 7, Blk. 4, Hawthorne Hills. Est. cost, \$3,000.

D. A. Campbell. Addition. Portion Lot 187, Ross Valley Park Villa Lots. Est. cost, \$600.

G. Pagano. Garage. Lot 98 Sub. 1 Short Ranch Tract, The Alameda. Est. cost, \$150.

C. F. Black. Dwelling. Lot 7 Sub. 1 San Rafael Heights. Est. cost, \$4,000.

C. G. Fagerman. Repairs. Portion Lot 274 Bush Tract, San Anselmo Ave. Est. cost, \$300.

C. Struckman. Dwelling. Portion Lot 89 Bush Tract, San Anselmo Ave. Est. cost, \$3,000.

T. Minto. Erect bldg. Miniature golf course. Lots 1, 2, 3, 4, Ross Valley Park, San Anselmo Ave. Est. cost, \$300.

H. Kimes. Addition. Portion Lot 13 Bush Tract, Upper Scenic Ave. Est. cost, \$3,000.

A. J. Morgan. Addition. Lot 26 Sub. Lots 26 to 37 Linda Vista Tract, Pine St. Est. cost, \$700.

A. C. Grace. Garage. Lot 3 Glenwood Tract, Waverly Road and Vine. Est. cost, \$200.

BUILDING PERMITS

PALO ALTO

DWELLING, stucco, \$3000; 241 Seale Ave., owner, C. L. Blacker, 243 Seale Ave., Palo Alto; contractor, P. R. Smith, 160 Cowper, Palo Alto.

RESIDENCE, stucco, and garage, \$7,500; 404 Seneca St.; owner, Evelyn P. Spooner; contractor, J. Link-konen.

BUILDING PERMITS

SAN JOSE

BUSINESS building, small frame, \$120; Lincoln and Saveria Sts., San Jose; owner, M. Michilini, 160 Race St., San Jose.

COTTAGE, 3-room frame, \$1000; Josefa St. near Auzeiras, San Jose owner, Arthur Pitts, 661 S-12th St., San Jose.

RESIDENCE, 5-room, frame, \$4500; 17th St. near San Carlos, San Jose; owner, A. Teixeira, R. F. D. White Road, San Jose; contractor, E. H. Painter, Gordon Ave., San Jose.

ALTER frame residence, \$1000; No. 929 Clintonia St., San Jose; owner, N. H. English, Premises; contractor, Clufford and Hanson, 1033 Ramona St., San Jose.

RESIDENCE, one and one-half-story 8-room frame, \$10,000; 14th St., opp. Reed, San Jose; owner, Geo. Eckart, 1138 Sierra St., San Jose; contractor, Gibson - Wheeler Co., 217 Bean Bldg., San Jose.

RESIDENCE, frame, duplex, \$5000; 31st and Mt. Hamilton View, San Jose; owner, W. H. Lee, 50 N-First St., San Jose.

COMPLETION NOTICES

SANTA CLARA COUNTY

Recorded Accepted
Oct. 3, 1930—N McKEE RD (Anne Darling School); general contract, steam heating, electric wiring, and plumbing (4 completions). San

Jose School District to whom it may concern..... October 3, 1930

Oct. 4, 1930—635 SALVATIERRA St Stanford. Elizabeth Brand Taylor to whom it may concern..... October 4, 1930

Oct. 4, 1930—19,746 ACRES on west Santa Clara and Los Gatos Road. E R Kennedy to whom it may concern..... October 3, 1930

Oct. 4, 1930—LOT 6 BLK 63 Resub of Seale Addn No 2, Palo Alto. J G Causey to whom it may concern..... September 23, 1930

Oct. 4, 1930—LOT 7 BLK C, Easter Gables. Lola E Dunn to whom it may concern..... October 3, 1930

LIENS FILED

SANTA CLARA COUNTY

Recorded Amount
Oct. 3, 1930—LOTS 19 and 20 BLK 2, Restwood Park No 2. Fred Hayden vs Thomas Carpenter\$503

Oct. 4, 1930—LOT 2 BLK 3, Lincoln Gates. Central Supply Co vs H N Traxler et al.....\$524.52

Oct. 4, 1930—NE ALMA and west line Circle NW 50 NE 112½ SE 78 ft 2½ in S 44 ft 2½ in to Circle W 107 ft 3½ in being Subdiv 2 and part Subdiv 1 and 2 Blk 4, Palo Alto. Wm and J C Urban vs Katherine Bralis (naly Katherine Clark).....\$12.80

Oct. 4, 1930—LOT 1 BLK 1 R 4 S, San Jose. A G John vs J E Cooley et al.....\$194.40

Oct. 6, 1930—LOT 35 BLK 1 Konkling & Col Subdiv. Southern Lbr Co vs C V Brown.....\$390

Oct. 6, 1930—LOT 35 BLK 1, Konkling & Col Subdiv. Wm F Serpa vs C V Brown et al.....\$329

Oct. 6, 1930—LOT 2 BLK 3, Lincoln Gates. Bush Roofing Co vs H N Traxler.....\$328.85

Oct. 6, 1930—LOTS 13 and 16 BLK 8 R W Mac's S v Addn. Wm F Serpa vs Pietro Constanzo et al.....\$196.40

RELEASE OF LIENS

SANTA CLARA COUNTY

Recorded Accepted
Oct. 6, 1930—LOT 9 BLK 17, Lendrum Tract. San Jose Lbr Co. Wm J Coakley to Andrew J Orgz.

COMPLETION NOTICES

MARIN COUNTY

Recorded Accepted
Oct. 6, 1930—NEAR MILL VALLEY. Nicholas Karpaty to whom it may concern..... Oct. 4, 1930

Oct. 6, 1930—SAN RAFAEL. F Mendenhall to whom it may concern..... Oct. 6, 1930

Oct. 8, 1930—MILL VALLEY. Ida M Boyle to whom it may concern..... October 6, 1930

LIENS FILED

MARIN COUNTY

Recorded Amount
Oct. 6, 1930—SAUSALITO. R D Hood, \$365; George Miffley, \$75; Carl Lindquist, \$64.59 vs Naazarine Fitzgerald

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded Accepted
Oct. 7, 1930—BUCHANAN ROAD in Sup Dist No 4. J H Wells, county clerk, to George G Wood

Oct. 9, 1930—LOTS 1, 2 and 3 BLK

336, Addn Survey, Martinez J F Marino to Wallace Snelgrove

Oct. 8, 1930—LOT 20 BLK 51, Martinez Land Co Tract No 7. Joe L Granquist to Self

Oct. 10, 1930—0.14 ACRES and being in or near Town of Crockett. Federal Engineering Co to Karl S Koller

Oct. 8, 1930

LIENS FILED

CONTRA COSTA COUNTY

Recorded Amount
Oct. 9, 1930—LOT 8 BLK 17, No 3 ptn of Parkside Addn and Race-track Sub. Diamond Match Co vs Hugh and Agnes L Savage.....\$340.30

Oct. 9, 1930—LOT 4 BLK E, Berkeley Highlands. H T Moore vs Oscar, Carl and Alva Johnson.....\$268

Oct. 11, 1930—LOTS 23 and 24 BLK 40, North Berkeley Terrace. El Cerrito Wrecking Co vs Fred Propp. Sr.....\$338.80

Recorded Amount
Oct. 10, 1930—LOT 2 BLK 4, Green Sub., Antioch. Antioch Lumber Co vs J M Gauh.....\$441.82

Oct. 8, 1930—LOTS 5 AND 6 BLK 320, Additional Survey, Martinez Judson-Pacific Co vs Wallace Snelgrove, Clement Arnaud and Martinez Steam Laundry.....\$629.43

RELEASE OF LIENS

CONTRA COSTA COUNTY

Recorded Amount
Oct. 9, 1930—TWO ACRES being ptn of tract desc in 260 deeds, page 44. Gilson Elec Supply Co to Martinez Hosp Assn and Wallace Snelgrove
Oct. 10, 1930—LOTS 19 AND 20 BLK 25, Richmond Junction Heights. E H Higgins Co to Tony Rigolio
Oct. 10, 1930—LOTS 19 AND 20 BLK 25, Richmond Junction Heights. A Sakrison and R Peterson (as Rich-Oak Hardwood Floor Co) to A Darling and Tony Rigolio.

COMPLETION NOTICES

SAN JOAQUIN COUNTY

Recorded Accepted
Oct. 9, 1930—BOUNDED ON N by Elm St., S by Ash St, E by Third St. and W by Fourth St Lot 24, 200 by 300 feet, French Camp. J B Deaton to W T Gibson.....Sept. 27, 1930

Oct. 11, 1930—NO. 230 TO 240 E-Main St., Stockton, E 7 ft Lot 7, and all Lot 9 Blk 12 E of Center St. except N 4 ft 3 inches conveyed to City of Stockton. N O Turner to Monet's Inc. Oct. 1930

Oct. 8, 1930—WEST PARK Grammar School, Tracy. Board of Trustees of Tracy Grammar School Dist to Samuel Eyre..... October 6, 1930

LIENS FILED

SAN JOAQUIN COUNTY

Recorded Amount
Oct. 8, 1930—FOX THEATRE, Stockton. Vermont Marble Co vs Henry I Beller (as Beller Construction Co); West Coast Theatres, Inc.; Eugent Lovell Wilhoit; Arthur Wilhoit; Mary Wilhoit Hodgkins and Elsie Wilhoit Hodgkins.....\$4150

Oct. 8, 1930—E ½ LOT 8, all Lot 10 and E 75 ft of W 100 ft of each Lots 15 and 16, Blk 12 E of Center St., except N 1 s 12 ft. and S 3 ft thereof. Portions of Lots 15 and 16 Blk 12 E of Center St. The E 7 ft. Lot 7 and all Lot 9 Blk 12,

E of Center St., except E 7 inches of N 90 ft. of said Lot 9; also except N 4 ft. 3 inches thereof as conveyed to City of Stockton for additional sidewalk space. The W 1/2 of Lot 8, W 1/2 of W 1/2 of Lot 15 and W 1/2 of W 1/2 of Lot 16 all in Blk 12, E of Center St., Stockton (Fox West Coast Theatres). Pacific Coast Engineering Co. vs Henry I Beller Construction Co and Fox West Coast Theatres.....\$3129.65
 Oct. 8, 1930—E 1/2 LOT 8, all Lot 10 and E 75 ft. of W 100 ft. of each Lots 15 and 16, Blk 12 E of Center St., except N 1 S 12 ft. and S 3 ft. thereof. Portions of Lots 15 and 16 Blk 12, E of Center St. The E 7 ft. Lot 7 and all Lot 9 Blk 12, E of Center St., except E 7 inches of N 90 ft. of said Lot 9; also except N 4 ft. 3 inches thereof as conveyed to City of Stockton for additional sidewalk space. The W 1/2 of Lot 8, W 1/2 of W 1/2 of Lot 15 and W 1/2 of W 1/2 of Lot 16 all in Blk 12, E of Center St., Stockton (Fox West Coast Theatres). Edward L Gnekow vs Henry I Beller (as Beller Constr. Co.); West Coast Theatres, Inc.; Eugene Lovell Wilhoit; Arthur Wilhoit; Mary Wilhoit Hodgkins and Elsie Wilhoit Hodgkins.....\$4750.75
 Oct. 9, 1930—FOX THEATRE, Stockton. San Joaquin Brick Co., \$11,681.92; and \$4050.22; Charles F Rich (as Stockton Tile Co.), \$3100 vs Henry I Beller (as Beller Construction Co.); West Coast Theatres, Inc.; Eugene Lovell Wilhoit; Arthur Wilhoit; Mary Wilhoit Hodgkins and Elsie Wilhoit Hodgkins.....\$1815
 Oct. 10, 1930—E 1/2 LOT 8, all lot 10 and E 75 ft. of W 10 ft of each of lots 15 and 16, all in blk 12, east of Center St. Second: E 50 ft of lot 16, blk 12 east of Center St. except N 18-12 ft and S 3 ft thereof. Third: Ptns lots 15 and 16, blk 12 east of Center St. Fourth: E 7 ft of lot 7 and all lot 9 blk 12, east of Center St; except E 7 in of the N 90 ft (city of Stockton, standard meas.) of said lot 9; also except the N 4 ft and 3 in thereof, as conveyed to the city of Stockton for additional sidewalk space. Fifth: W 1/2 of lot 15 and W 1/2 of W 1-3 of lot 16 all in blk 12, east of Center St. Raphael Glass Co vs Fox West Coast Theatre, John Doe, Richard Roe, John Doe Co.....\$1815

COMPLETION NOTICES

SONOMA COUNTY

Recorded Accepted
 Oct. 10, 1930—NO. 140 KENTUCKY St., Petaluma. F P, N J and F R Doyle to A B Conner.....Oct. 8, 1930
 Oct. 3, 1930—SE COR SONOMA Ave and Steiner Court, Santa Rosa. W L Lippincott to whom it may concern.....October 3, 1930

BUILDING PERMITS

STOCKTON

RESIDENCE and garage, \$4000; No. 1838 Carmel Ave., Stockton; owner, J. M. Helterbrand, 2644 E. Main St., Stockton.

BUILDING CONTRACTS

SACRAMENTO COUNTY

BUILDING
 W 1/2 LOT 6 and E 1/2 Lot 7, G, H, 6th. and 7th Sts., Sacramento. All work for one-story building.

Owner—Dan A. Stanich, 619 H St., Sacramento.
 Architect—None
 Contractor—Lindgren & Swinerton, California State Life Bldg., Sacramento.
 Filed —. Dated —.
 TOTAL COST, \$6875

BUILDING PERMITS

SACRAMENTO

REMODELING, \$1400; No. 3357 Second Ave., Sacramento; owner, Jas. Reichmuth, Premises; contractor, Jay D. Hawarth.

COMPLETION NOTICES

SACRAMENTO COUNTY

Recorded Accepted
 Oct. 9, 1930—TENTH AND R STS., Sacramento. W P Fuller & Co to whom it may concern.....Oct. 7, 1930
 Oct. 11, 1930—LOT 50, Heilbron Oaks, Sacramento. Wm Henry Gilbert to whom it may concern.....October 7, 1930

LIENS FILED

SACRAMENTO COUNTY

Recorded Amount
 Oct. 11, 1930—LOTS 15 AND 16 Willi's Subd., Sacramento. Chas Owens (as State Roofing Co) vs Chas E Durant & Russell Martin.....\$245

BUILDING PERMITS

FRESNO

ALTERATIONS and additions, \$2800; No. 1131 Fulton St., Fresno; owner, Neal Luther, Premises; contractor, J. T. Cowan, 750 Elizabeth St., Fresno.

ALTERATIONS and additions, \$2500; No. 2048 Mariposa St., Fresno; owner, Novelty Boot Shoppe, Premises; contractor, Moore.
 DWELLING, \$3500; No. 151 Kearney St., Fresno; owner, Overthelan; contractor, C. Delner.
 ALTERATIONS and additions, \$1000; 1528 Tulare St.; owner, Gallen-Kamp Shoe Co.

COMPLETION NOTICES

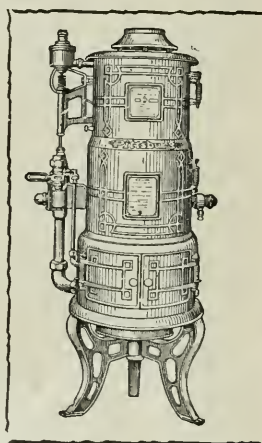
FRESNO COUNTY

Recorded Accepted
 Oct. 10, 1930—LOTS 41 AND 42, Prichard Park, Fresno. C H and Annie Lehman to whom it may concern.....Oct. 9, 1930
 Oct. 10, 1930—LOT 4 BLK 5, Highland Park, Fresno. Effie M Cattell to whom it may concern.....Oct. 8, 1930
 Oct. 8, 1930—LOT 28 W 1/2 of Lot 29, blk 11, Belmont Addn. Fresno. Genevieve M Duncan to S C Ramo.....October 5, 1930
 Oct. 7, 1930—LOT 1 BLK 14, Wilson N. Fresno Tract. Herbert Levy to J Dan Shorb.....Oct. 7, 1930
 Oct. 7, 1930—LOCATION NOT Given. Dept of Public Works, Division of Highway, State of California to Thompson Bros.....Sept. 13, 1930

Adoption of an ordinance, requiring that all contracting firms operating in Santa Rosa employ local labor as far as possible, will be asked of the city council by the Santa Rosa Central Labor Council.

This was decided when it was reported that an outside firm of home builders is employing outside non-union labor in the erection of several homes in the eastern part of the city.

J. E. Snyder, editor of the Labor Journal, declared that such ordinances are in effect in many cities of California, including Oakland, and have proved beneficial to local labor.



A "Pittsburg" Automatic Water Heater installed in the Home indicates high quality throughout.

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Consider the high merit of the Pittsburg coupled with "Pittsburg Perfect Service."

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Architect-Engineer Directory Available

Compilation of complete listings of licensed architects in California in the new pocket edition of The Architects' Directory of California, has been announced by Cornell T. Malone of the Los Angeles Builders' Exchange, A-65 Chamber of Commerce Bldg., Los Angeles, and 741 Pacific Bldg., San Francisco. This newest of handy references for building material men is declared by the publishers to be an improvement over previous issues.

The new edition which has been approved by leagues and clubs of architects and building contractors throughout the state gives alphabetical lists of licensed architects in cities in addition to an arrangement of their offices according to streets. This new feature, it is claimed, has simplified the locating of men engaged in the drawing of plans for specific jobs.

With the names of the licensed architects are arranged the identification of designers, specification writers, chief draughtsman, office manager and superintendent. Listings are also given of the consulting, mechanical, heating and ventilating, electrical and structural engineers either figuring or employed in the offices of architects.

Class of work engaged in by certain architects is mentioned in the edition along with the hours of the day and days of the week when material men will be interviewed.

Architects in Oakland and San Francisco are tabulated according to districts giving the names of office personnel, etc. Listings of practicing consulting and structural engineers in both northern and southern California may be found in the engineers' section of the directory. Landscape architects of the state are also given in alphabetical order.

ASWAN DAM ENGINEER IS A SUICIDE

Sir John Norton-Griffiths, an eminent British engineer and managing director of Norton-Griffiths & Co. contractors on the work of raising the crest of Aswan dam in Egypt, committed suicide at Alexandria, Egypt, on Sept. 27. Norton Griffiths & Co. some months ago entered into a contract with the Egyptian government to enlarge and raise the crest of Aswan dam along the lines recommended to the government by a commission of engineers in December, 1923.

The bid of Norton-Griffiths & Co. was \$9,800,000, the lowest of eleven bids. The next highest was \$12,060,000.

On Sept. 20 Sir John had addressed a letter to the Egyptian ministry of public works, stating that work on the dam was being suspended because of the unreasonable demands of the Egyptian inspectors, who he claimed were inexperienced and incompetent. Subsequently it developed that he had reported to the government that payments for the work were far behind expectations and asked for financial assistance.

WHO KNOWS?

A sub-contractor signs an agreement with a contractor whereby he agrees to fulfill his work according to plans and specifications together with approved shop drawings, and on completion of work signs with general contractor, for the owner, a guarantee giving owner right to charge and collect for any defects in material and workmanship occurring within the 1-year period.

Owner claims that sub-contractor deviated from approved shop drawings and is demanding repair for alterations from contractor.

Sub-contractor claims all his work was done with the approval of the inspector and disclaims all responsibility concerning alterations and repairs.

Can general contractor, should he have to make the repairs, collect from the sub-contractor?

A general contractor finds himself in the above position and in a letter to the editor wants to know just what his status is. Who knows?

WATER WORKS MEET SLATED FOR PASADENA

California Section, American Water Works Association, will hold its annual convention at Hotel Huntington, Pasadena, October 23 to November 1, inclusive. The first formal business session will be held Thursday afternoon, followed by an informal dinner and a business meeting in the evening at which officers and committees will make their reports and officers will be elected for the ensuing year. There will be two sessions Friday and a dinner dance in the evening. Saturday morning the members will inspect the Pasadena water properties and the Pine Canyon dam site in San Gabriel Canyon.

F. W. Hanna, chief engineer of the East Bay Municipal Utility District, Oakland, is scheduled to address the meeting on "Electric Welded Steel Pipe Lines."

RETAIL LUMBER ASSN. TO MEET IN PASADENA

Earl Johnson of the Johnson Lumber Co., Pasadena, is chairman of the committee on arrangements for the special convention of the California Retail Lumbermen's Association to be held at the Hotel Huntington, Pasadena, Nov. 6, 7 and 8. His aides are Paul Hallingby of Hammond Lumber Co., Los Angeles, and A. J. Stoner of Sawtelle Lumber Co., Sawtelle. W. S. Spicer of Santa Ana is chairman of the program committee. Other members of this committee are Paul Hallingby, Earl Johnson and E. T. Roble, Auburn Lumber Co., Auburn. Many of the visiting lumbermen plan to attend the California-U. S. C. football game at the Los Angeles coliseum November 8.

ARIZONA FAILS IN ATTEMPT TO PREVENT BOULDER DAM PROJECT

Two important decisions affecting Arizona's fight to prevent the construction of Boulder Dam on the Colorado River has been handed down—one against the state and the other in her favor.

Shortly after announcement of a decision by Comptroller General McCarl declining Arizona's request that funds for the dam's construction be held up, the supreme court granted the state permission to test by suit the validity of the congressional act and Colorado River state compact under which the project is being built.

Meanwhile, initial work on construction is expected to proceed without delay.

Secretary Wilbur announced McCarl's decision which said there appeared to be nothing presented by Arizona requiring or justifying a holding up of funds for construction.

The request to test the law under which the dam at Black Canyon is to be built was filed by K. Berry Peterson, attorney general of Arizona. The suit is expected to be filed against Secretary Wilbur and the states on the Colorado River interested in the project.

The highest court, in permitting Arizona to file its complaint, ordered that California and the other states made defendant and Secretary Wilbur should file with it their replies by January 5 giving their grounds for opposing the suit.

After these are before the court it will decide whether a special master or commissioners should be appointed to take evidence for the court.

Secretary Wilbur said the comptroller general's decision had been forwarded to the attorney general of Arizona.

The Federal Government will proceed to the building of Boulder Dam with all possible speed, notwithstanding the Supreme Court's granting the state of Arizona leave to file suit to enjoin construction, President Hoover declares, according to advances of International News Service.

The government, Hoover said, will "help in expediting settlement of the points of law" between Arizona and the other states affected.

The president expressed the hope that the states could soon get together and iron out their differences.

The eighth annual convention of the American Institute of Steel Construction will be held at Pinehurst, N. C., beginning October 28.

James A. Farrell, president of the United States Steel Corporation; E. W. Beatty, president of the Canadian Pacific Railway Company; and R. P. Thomas, vice president of the United States Steel Corporation, will be guests of honor and the speakers.

CONFLICTS BETWEEN ENGINEER AND ARCHITECT TO BE ADJUSTED

(Reprint from Engineering News-Record, New York City, by Special Permission of the Publishers)

An attempt to seek out and remove the sources of irritation between the architectural and engineering professions is under way. Informal discussions between representatives of the American Institute of Architects and the four founder engineering societies have led to the decision to organize a joint committee of four architects and four engineers to take up the subjects of controversy and make recommendations as to means of rectifying them.

The joint committee is to approach its task as a national rather than as a local undertaking. Its findings cannot be made binding upon local or state organizations. Nevertheless, as most local difficulties and their origin in misconceptions or attitudes of mind which are of national character, much help in local matters may be expected from sound findings on national matters.

Among the subjects of controversy which developed during the past year in the controversy between engineers and architects in New York State are several which have a national aspect. Chief among them is the opinion—as expressed by one of the national directors of the American Institute of Architects—that an architect who is not technically qualified to design structural or mechanical details of a building can be counted upon to employ a structural or mechanical engineer for that work, but that an engineer cannot be similarly relied upon. In the specific instance cited it was held that a chemical engineer cannot safely be called in to act as the principal agent for an owner planning to put up a new plant.

Those architects who hold this view justify it by claiming that an architect alone is qualified by his training to appreciate all the various services required to make a complete building, not only in its structural and esthetic aspects but also in the arrangement of floor space and service facilities. They hold that engineers are not so qualified, that they might through ignorance undertake work for which they are not qualified.

Engineers, on the other hand, claim that the ability to determine what expert services are required in a building operation and that to co-ordinate the services of these experts is not peculiar to architects nor is it an ability which is developed by any course of training which architects alone take. Further, they see in this an implication that the professional and ethical standards of engineers are lower than those of architects.

The second major subject of controversy is closely related to the first. An attempt has been made to divide all building work into two classes and to provide by law that one class is the exclusive field of architects and the other the exclusive field of engineers, or, as was proposed in New York this year, to leave the second class open to both architects and engineers. Here, as before, the matter hinges upon whether one profession possesses a peculiar fitness for such work not possessed by the other. Again, the architects claim that their special ability in planning floor layouts and space arrangements and in specifying required facilities in office buildings, hotels and apartment houses makes it essential that they act as principal agents for the owners on such work. To this the engineers reply that, even granting that architects are better trained in the arrangement of floor spaces and facilities, there is no

sound reason why an engineer should not act as the owner's principal agent, employing architects for that work just as architects employ engineers to design the structural framework, mechanical and electrical equipment of many large buildings. Further, they declare that as public safety is not involved in floor layouts except possibly in the matter of exit and fire towers—matters which are clearly specified in building codes understandable alike by engineers and architects—it is a perversion of the state police power to attempt to exclude engineers from work by law.

A third source of trouble centers in the ability of engineers and architects to design buildings which are structurally safe. The architectural profession points out that all architects have a sufficient grounding in the principles of structural engineering to judge whether plans prepared by them or under their direction are structurally sound. They decline, however, to concede similar blanket qualifications to engineers, maintaining that only structural engineers (or possibly civil engineers) should be permitted to certify to the structural sufficiency of building plans. In this latter opinion they find much support among engineers, many of whom feel that it would be better to limit the filing of the plans for all except small buildings to engineers with special training in structural design. However, they maintain that the same limitation should be placed upon architects; that the architect whose chief interests are in the artistic side of his professional work and who knows little and cares less about the routine work of structural design should be put in the same class as engineers of limited structural knowledge.

These are the major subjects of controversy; the others are of less fundamental importance but are nevertheless sources of friction. One is the wording of the uniform registration law for engineers. As now written, the section concerning public works may be read as requiring that all public works be carried on under the direction of engineers. The American Institute of Architects has gone on record as seeing in this an intentional attempt to exclude architects from public works such as school and state hospital construction. Engineers who were active in the preparation of the law deny having any such ulterior purpose. Public works were specifically mentioned by them in order to make it clear that state officials in charge of such work must be subject to the restrictions of licensure.

Another source of difficulty found in the uniform registration law, as well as in many state registration laws is a lack of definite educational requirement. Architects object to having engineers placed on an equal status so long as their educational requirements appear to be less than those of the architectural profession. Engineers object to the false-front definition of architectural qualifications written into the architectural qualification law but not realized in practice.

New York State's multiple dwelling law with its requirement that certification as to the sufficiency of plans for multiple dwellings be limited to "the owner or a registered architect" is another local matter which has become an important source of international conflict. Arguments pro and con are similar to those used by the two professions in the matter of

dividing all building work into two classes. Engineers find this particular provision of the law particularly objectionable because they believe it to be legislation which was purposely put over by a small group of architects to gain an advantage for their profession which could not have been obtained had the matter been frankly put up to the engineering profession when the law was passed.

All these matters and possibly others are subjects which will come up before the joint committee for action. Viewed narrowly from a selfish professional viewpoint the problems are difficult to solve, if not entirely beyond solution. But viewed broadly, solutions are not difficult to find. There is every indication that men of broad decision will sit on the joint committee. Consequently we have little hesitancy in saying that we look for proposals from the committee which if put into effect will clear up most of the present troubles that are causing concern to members of both professions.

N. Y. STATE LICENSE BOARD SETS UP REQUIREMENTS

Educational requirements which applicants for licenses in the State of New York must have before their applications will be approved by the state board of licensing for professional engineers and land surveyors were established by the board in a set of by-laws adopted on September 27, says Engineering News-Record. The new requirements are given in two sets of examinations to be passed by applicants who are not graduates of engineering schools approved by the state educational department.

Objections have been raised to the New York State engineer license law on the ground that it does not set up adequate preliminary and professional education requirements. The law gives wide discretionary powers to the board and as the board has never heretofore gone on record as to what it would accept as being "of a character satisfactory to the board," frequent claims have been made that a man having little preliminary education in the fundamentals of engineering could obtain a license after six years of active work in engineering regardless of his character.

A four-day written examination has been laid down. Examinations in mathematics through calculus, applied sciences, graphics, materials of construction, structural design, mechanical design, electrical design and administration extending over a period of three days are required of all applicants subject to the examination. The second part covers the fourth day. It gives the applicant an option of one of five examinations in either civil, mechanical, electrical, mining or chemical engineering, depending upon which branch he has specialized in.

The Link-Belt conveyor data book, a 176-page leather-covered volume has been prepared by the Link-Belt Co., Chicago, Ill., to facilitate the selection and application of the proper type of belt conveyor in material handling. For this purpose a large amount of engineering data is included, much of it in tabular form.

HOME CAN BE BUILT FOR ONE-FIFTH LESS THAN IN 1929

According to the experience of a middle west lumber dealer, a frame house can now be built for about 13 per cent less than in the spring of 1929. In some localities the difference is probably as much as 20 per cent.

Manager Adolph Pfund of the National Retail Lumber Dealers Assn., reports that a lumberman in a mid-west city recently called for an itemized bid on the construction of a frame dwelling reproducing exactly one that was erected in March and April, 1929, on which all cost data were available. The contractor not only undertook to make a replica of the house for \$4,349.46, instead of \$5,013.33 (exclusive of his own compensation) but undertook to guarantee his bid.

It was found that every item of material, equipment and labor, except gas service, surveying, insurance and the building permit (which were identical), was lower than a year ago. The greatest decreases were in excavation, 35 per cent; and in finish hardware, also 35 per cent. Next in lower prices were window shades, which were down 33 per cent; then came tile, 24 per cent; worked lumber 20 per cent; painting, 16 per cent; yard lumber, 14 per cent; mason work 12 per cent; carpenter work, 10 per cent, and wiring 10 per cent. The

Items in which there were only negligible reductions were plastering, plumbing, heating and rough hardware. The following table gives the details of the bid. They do not include the contractor's profit which, however, would probably be figured on a lower percentage basis than in 1929.

Six Rooms and Bath				
Built	March and April 1929	Cost, 1929	Cost	App. Dec-1930
Excavating	\$100.00	\$65.00	35	%
Mason	601.33	530.50	11	%
Millwork	875.27	700.00	20	%
Lumber	917.76	790.00	14	%
Carpenter labor	614.66	554.66	10	%
Plastering	335.00	325.00	3	%
Plumbing	483.00	475.00	2	%
Heating	250.00	210.00	16	%
Painting	400.00	385.00	3	%
Finish Hdwe.	58.00	38.00	35	%
Rough Hdwe.	39.95	39.00	2	%
Wiring	98.00	88.00	10	%
Tile	45.00	34.00	24	%
Gas Service	34.45	34.45		
Elec. Fixtures	80.00	60.00	25	%
Shades	30.00	20.00	33	%
Surveying	8.00	8.00		
Insurance	37.25	37.25		
Permit	5.60	5.60		
	\$5013.33	\$4349.46	13%	

The continued growth of our large cities is making it necessary to rebuild them almost completely. Old office buildings located on space that has become immensely valuable are being replaced with modern structures that rise from 30 to more than 50 stories and accommodate several thousand workers. Tenement sections are giving way to towering apartment houses, hotels and even churches. Narrow streets are being widened so as to handle more traffic. The method of setting back the upper stories of tall buildings from the street was originally devised to solve the problem of air and sunlight, but has created a new type of American architecture.

As real estate values in the cities have risen, they have forced the residential sections, except high-priced apartments, further away from the business districts, and suburban development has been made feasible by automobile transportation as well as the extension of rapid transit and subway systems. Desirable home sites are no longer limited to those in close proximity to transportation lines, and it is now becoming an advantage to be situated some distance away from the main traveled highways.

Large building projects within a city, as for example, the New York Central Building and the Chrysler Building in the 42nd Street section of New York City, have given stimulus to residential building throughout Westchester County from where it is convenient for workers to commute daily. This simultaneous rebuilding of New York City and the suburban development within a radius of more than 40 miles illustrates what may be expected to take place in every other large city during the years to come, and to furnish a huge demand for building labor and materials.

Such growth of the larger cities is all the more remarkable when it is considered that there is a very definite counter-trend in the movement for "decentralization" on the part of many concerns, which have found that by moving their plants out into the smaller towns they could secure better working conditions and lower costs, although the executive offices are usually kept in the commercial and financial centers.

New York City and the metropolitan area, which includes Long Island, Northern New Jersey and the Westchester County section, and comprises a population of approximately 11,000,000 or 9 per cent of the country as a whole, had, according to the Dodge figures, contract awards during the first seven months of 1930 aggregating \$576,000,000 or 19 per cent of the total for the 37 eastern states. Its share of the total commercial building construction was 34 per cent, of other non-residential building 15 per cent, of residential building 22 and of public works and utilities 13 per cent.

MODERN MOLDING MACHINE

Located in the main foundry of the Trafford Works of the Westinghouse Electric and Manufacturing Company a modern "sand slinger" travels along a 300 foot track picking up sand, straining it and depositing and ramming it into the molds at the right. This molding machine, powered by electricity, reduces the drudgery of foundry methods, doing in half an hour what would ordinarily take two men half a day. The head swings on a radius of 15 feet to fill and ram molds for motor frames, pedestals, bodiplates, and other large apparatus.

CHANGING TRENDS IN BUILDING CITED BY NATIONAL CITY BANK

Two important industries hold back the recovery, and affect the prospects for fall business, viz.: house-building and the manufacture of automobiles. The reason, the National City Bank of New York points out, is that they had been previously overdone. Industrial construction and public works are making a good showing, but house-building drags.

Herewith is published the result of a survey in the construction field by the National City Bank.—Editor.

The volume of building construction has always exercised an important influence on the general business cycle in this country and the question is frequently asked as to where one may look for signs of a recovery in this basic industry. Mortgage money has become cheap and plentiful during the past several months, material costs are somewhat lower and real estate authorities have urged that the present is an opportune time to build. On the other hand, there is still reported a surplus of space in many localities, including office buildings, factories and high-priced apartments, the demand for which is slack because of depressed business conditions. Public utility and engineering projects are proceeding in large volume, partly as a result of the efforts of business leaders to push this class of work so as to relieve unemployment, but where they have involved a further increase in the steady rising tax burden the reaction of taxpayers has not been altogether favorable.

Meanwhile the total current expenditure for all classes of building continues to sag and the contract awards from January 1 to August 1, 1930, amounting to \$3,005,542,000, compare with \$3,667,983,000 in the corresponding period of 1929, \$4,028,300,000

in 1928, the peak in recent years, and are the lowest since 1924. These figures, compiled by the F.W. Dodge Corporation, cover the thirty-seven States east of the Rocky Mountains and represent more than 90 per cent of the building for the country as a whole. Cumulative totals for the first seven months have run 18 per cent behind last year, but there has been a striking change in their three component parts, residential building being 48 per cent behind and non-residential only 13 per cent behind, while public works and utilities are 20 per cent ahead, a considerable portion of the gain being due to highway construction and pipe lines.

It is quite possible that present conditions in the building industry, such as cheap money, etc., offset by the reported surplus of space, which is a temporary condition and is likely to be over-emphasized when a survey is made in a time of business depression, are not the only determining factors in the outlook for new building and that the key to the future is to be found in the changing trends in mode of living. During the past ten years there has been a marked growth in the larger cities, the census of 1930 showing 93 having a population in excess of 100,000, while in 1920 there were but 68. This group now takes up 36,000,000 people, or more than one-fourth of the entire country. Whereas the population of the country as a whole increased in the decade by 16.1 per cent, no less than 47 cities now in the 100,000 class than increased at a more rapid rate than this average figure. Of the five leading cities, which together account for more than 15,000,000 people, New York and Chicago increased by approximately 24 per cent, Philadelphia by 7 per cent, Detroit by 57 per cent and Los Angeles by 113 per cent.

THE OBSERVER

What He Hears and Sees on His Rounds

Scaffolding, while not a big item in the construction job, is an important item.

Scaffolding, poorly constructed, may mean the loss of life to workmen on the job or to the pedestrian in the street.

From Harrisburg, Pa., comes news that adds another hazard in the matter of scaffolding.

Fire in the auditorium of the new state education building on October 3 damaged the \$400,000 structure to considerable extent. Although no authoritative estimate of damages was made public, it is stated that the greater portion of the structure, except structural steel and exterior stone work, will require reconditioning. The blaze was discovered at 4 A. M. in a large amount of inflammable scaffolding which was being used by men decorating the walls and ceiling of the auditorium. Much of the damage to the building, which was to have been completed in December, was caused by smoke and water.

The general level of wholesale prices in September varied little from the August level, but tended upward, according to the index number of the Bureau of Labor Statistics of the U. S. Department of Labor. This index number, which is based on 550 commodities or price series in 1926 as 100.0, stands at 84.2 for September, compared with 84.0 for the month before. The purchasing power of the 1926 dollar in September was \$1.188.

Fuel and lighting materials moved upward, anthracite and bituminous coal, coke, and petroleum products being at higher levels than in August.

Metal products as a whole were downward, iron and steel and non-ferrous metals contributing to the lower prices.

Building materials also showed a net loss, prices of lumber, brick, structural steel, and paint materials averaging lower than in the previous month.

A skyscraper college, a 40-story building is in course of construction for the University of Pittsburgh. It has been named the Cathedral of Learning. It will house the classrooms, lecture halls and laboratories of the university. The ground plan of the structure is approximately 33x250 ft., and the tower is 80 ft. square. The building was conceived by Chancellor John G. Bowman as a symbol of the spirit and achievement of the steel city. The Stone & Webster Engineering Corporation is manager of construction, and the architect is Charles C. Klauder, of Philadelphia, with whom is associated H. G. Balcom, of New York, who designed the steel-work.

According to word from New York, arrangements have been made for the affiliation of Ames, Emeric & Co., investment banking house, and Ulen & Co., engineering, management and construction company. There will be no merger of the two organizations, each company retaining its separate identity and continuing under the same executive management as previously, without change of policy. This affiliation, it was stated, takes advantage of the mutually complementary businesses of the two organizations.

The Sacramento Board of Education contemplates a bond issue for \$2,000,000 to finance erection of new schools and additions and alterations to standing school buildings. A survey for the needed improvements will be made by Charles C. Hughes, city superintendent of schools, who will submit a report on November 3.

Announcement has been made of the addition of three new courses in the architectural department of the College of the City of New York. They comprise a course in modern methods of heating and ventilating based upon recent developments in the uses of gas, oil, and mechanical stokers; a course in applied building con-

fundamental economic conditions in the United States are described as sound in a statement issued by the directors of the Society of Industrial Engineers. The statement, issued after an executive session of the board of directors, says:

"Enthusiastic pessimism is raising hell with business in the United States.

"There is no excuse for continuation of the present sight-seeing trip of business into the Vale of Despond.

"Optimism, courageous use of credit, increased spending are the ingredients for a generous dose of common sense, needed by the victims of pessimistic whooping cough.

"The key log of the jam is unemployment.

"Give the workers work to do and they will buy.

"Business executives must take courageous action now.

"They must show backbone and spunk, in getting their credit to work.

"They must drag the idle credit dollars from their vaults and get them back to their jobs.

"Active selling, backed by intelligent production, backed by credit dollars, will turn the pendulum the other way."

Skyscraper building in America will go on. Economists say we must build higher to earn a return on land values. Moreover the trend is still toward condensing business in certain areas.

It is not known who designed the first skyscraper but in 1887 a Chicago architect, L. S. Buffington, made such claim, and so did W. L. B. Jenny, who built the first steel-framed building, the Home Insurance Company's, in 1883. In New York back in 1854 metal frame construction was used.

Skyscraper principles were carried farther in 1887 by the 14-story Tacoma building in Chicago, generally known as the first real skyscraper.

"Today the nation has 4785 skyscrapers ten stories or higher," says the research bureau of the C. A. Dunham Company, Chicago.

"There are 384 buildings over 20 stories high, at the last recent survey. Forward plans point to continuation of skyscraper building on a large scale.

"Growth of the skyscraper has created many new problems which have called for the highest type of

inventive genius. But the skyscraper is with us to stay. And many say it will become taller."

Stirrings in the direction of creating a better financial basis for house building may be discerned in several different quarters, says Engineering News-Record. Were anything needed to emphasize their importance, the present law state of residential building activity would supply a forcible argument. The building shortage reacts directly on general business activity and helps to maintain the slackness prevailing for some months past. Of the factors underlying the low building activity, high labor costs and poor financing are probably the principal ones. An associated factor is the absence of means for establishing assured values in dwelling-house property. But this lack could be overcome by systems of appraising location and plan values, coupled with a system of inspecting and certifying construction work. Some attempts in the latter field are under way. Their success may prepare the way for methods of establishing a free money market for house building, and fixing low interest rates comparable to those which commercial business enjoys.

California ranked second in building activities for the month of September. With sixty-three cities reporting, the operations for September involved an expenditure of \$17,025,561. The following is a listing of the twelve leading states in building expenditures for the month of September:

	No. of Places	Amount
New York	46	\$44,448,424
California	63	17,025,561
Illinois	53	16,928,215
Ohio	38	10,715,223
Pennsylvania	28	9,365,576
New Jersey	37	8,859,091
Michigan	22	7,893,911
Massachusetts	30	6,546,847
Texas	18	6,155,714
Wisconsin	19	4,219,620
Connecticut	20	2,989,635
Oregon	8	2,935,427

NEW HANDBOOK

A new edition of the "Handbook of Domestic Oil Heating" published by the American Oil Burner Association will make its appearance about Jan. 1, it is announced by Harry F. Tapp, executive secretary of the Association. The last edition, which was compiled and edited by Mr. Tapp, was published two years ago. The new handbook will cover commercial and industrial installations as well as domestic installations.

CHARACTER COUNTS

Since credit stabilization is in operation in several large cities of the United States, it is understood material men in extending credit to contractors are doing so along the lines of a banking institution authorizing a loan to a customer. First of all, a careful check of a contractor's resources are made and their investigation includes his past personal record as a builder. A contractor's reputation is always at stake. Character counts heavily for or against him. No person in any reputable business can afford to excite the suspicion or criticism of his community by conduct unbecoming a business man. The clean, honest, industries and thrifty contractor is in a position to obtain credit.—(Bulletin Natl. Assn. Building Trades Employers).

TRADE NOTES

Standard Show Case & Fixture Co., Ltd., has filed certified articles of incorporation with the county clerk in Oakland. The company is capitalized for \$200,000. Incorporators are John F. Calloway, Elgin T. Hittell and Reece Clark, all of Berkeley.

Directors of Riverside Portland Cement Company have declared a regular quarterly dividend of \$1.50 on the 6 per cent preferred stock and the regular quarterly dividend of 3 1/4 cents on the class A stock. Both dividends will be payable November 1 to stockholders of record October 15.

Pacific Electric Mfg. Corp. of San Francisco, has opened a branch office at 89 Broad St., Boston, Mass. This will be in charge of G. A. Wright, who has had wide experience in the field of electrical transmission and distribution equipment.

Regal Floor Co., capitalized for \$25,000, with the principal place of business in San Francisco, has been incorporated. Incorporators are William Cinnamond, Joseph M. Cinnamond and F. J. Harlis.

Richmond Paint Products Company, with headquarters in Contra Costa County, capitalized for \$250,000, has been incorporated. Incorporators are W. E. Dohrman, William Reuter and Fred Hurlbert, all of Oakland; C. B. Hall, San Leandro; E. J. Duffey, Richmond, and Dr. George Silseon and A. C. Aldrette, both of Berkeley.

Drendell-Trumbull Electric Manufacturing Co. in San Francisco, has been incorporated. Incorporators are L. Siebert, M. Dunn, C. A. Christin, F. J. Kilmartin and D. V. Ryan.

CITY AND COUNTY CONSOLIDATION PROPOSED IN LOS ANGELES

The Los Angeles city council has inaugurated plans to establish Los Angeles city as a separate county with a consolidated city and county government, similar to that of San Francisco. The council, on recommendation of its finance committee, instructed the city attorney to outline the necessary legal steps for this procedure.

City and county consolidation has been projected several times, but the latest proposal is different in that it leaves the municipalities and unincorporated portions of the county as they are, with the city itself as a county alone. Authority for a separate county must be obtained from the legislature.

NEW YORK STATE PLANS TO WIDEN HIGHWAYS

Widening of all main roads in New York State by 1940 to widths of more than 40 ft. is planned by the state department of public works, which has adopted an ultimate road-width map based upon a traffic survey made last August. The width of roads on the map was determined by a census of the number of cars traveling over them during a twelve-hour daylight period. Frederick Stuart Greene, state superintendent of public works, states that he feels confident the legislature will appropriate sufficient funds to carry out the plan in the next ten years.

ALONG THE LINE

John Pengelly, brick contractor, has been appointed a member of the Stockton city council, succeeding Karl C. Bruck, retired councilman of the Seventh District.

Col. B. C. Allin, director of the Port of Houston, Texas, has been appointed consulting engineer on Stockton's port terminal development.

The appointment of Allin was made by the city council on recommendation of W. B. Hogan, city manager. Allin will receive a salary of \$100 a month, beginning November 1.

William E. Hague has been named secretary-manager of the Alameda County Chapter, Associated General Contractors of America. Hague was at one time secretary of the General Contractors' Association of San Francisco. He assumed his East Bay position on October 1.

W. E. Tretheway, 73, president of the Stockton Iron Works, died in that city October 16, following a long illness. A native of London, Tretheway arrived in Stockton at the age of eleven years. He learned the trade of pattern maker in the plant of the Risdon Iron Works in San Francisco and later accepted a position in the pattern department of the Stockton Iron Works working his way to the presidency of the institution. Four daughters and two brothers survive.

The partnership between Henry Z. Osborne and Walter E. Jessup of Los Angeles, for the practice of engineering, has been dissolved and the business of the firm will be continued under the name of Henry Z. Osborne. Mr. Jessup recently accepted the invitation of the American Society of Civil Engineers to edit the technical magazine, "Civil Engineering," to be published by that organization, the first number of which will be issued this month. For the last six years the firm just dissolved has conducted a broad field of engineering, covering city planning, business and industrial zoning problems, public utility rate cases, traffic and irrigation problems, public improvements of all kinds and appraisals. Mr. Osborne was former chief engineer of the Los Angeles board of public utilities.

MUNICIPAL LICENSE REQUIRED COURT RULES

The Washington State Supreme Court upheld an ordinance passed by the city of Tacoma which requires plumbers to be licensed. The decision reverses lower courts.

The Supreme Court said that defective plumbing may cause an epidemic of disease in a thickly settled community, threatening the lives of many.

In answering the claim that a trade such as plumbing differs from a profession, such as architecture, the court said:

"It is not for us to say that the legislative branch may not be as fully justified in dealing with one as with the other. Certainly the journeyman plumber may be as dangerous to the public health and safety as the architect." (East Bay Labor Journal).

TRADE LITERATURE

A new motor grader catalog has been issued by the Austin - Western Road Machinery Co., Chicago, Ill., covering in detail the latest developments in Austin single and dual drive power graders.

"The Motor Truck as an Engineering Job," an article by Harry W. Miller which appeared in the Australian Motorist, has been reprinted by the International Harvester Co., Chicago, Ill. This company has also issued a 32-page illustrated bulletin showing trucks at work on engineering jobs under widely varying conditions.

Apparatus and accessories used in the testing of cement and concrete are described in a 14-page illustrated bulletin of the Fisher Scientific Co., Pittsburgh, Pa.

S. F. FINANCES AVAILABLE FOR CASCADE TUNNEL

Private capital is prepared to finance construction of a twenty-seven mile tunnel through the Cascades in Washington state, according to word from Wenatchee, Wash.

H. H. Meyer of San Francisco, said to represent San Francisco capitalists that have financed a number of toll bridges, has been studying the proposed project and an announcement is expected shortly.

A double tunnel that will provide a track for railroads and a route for motor vehicles is one plan proposed. Approximate cost of the bore is given as \$100,000,000. Parallel tunnels are also proposed with the approximate cost given as \$100,000,000.

SACRAMENTO ENGINEERS NAME COMMITTEE CHAIRMEN

The Sacramento Chapter, American Association of Engineers, has named the following committee chairmen to serve for the ensuing year:

L. V. Campbell, civic and legislature committee; F. P. Basler, fellowship and membership committee; R. E. Pierce, publicity and public information committee; L. B. Reynolds, program committee; W. A. Mason, qualifications committee, and C. P. Plummer, auditing committee.

J. C. Hammond has been reappointed secretary of the Chapter.

MORE FUNDS FOR HIGHWAYS THROUGHOUT STATE

A new plan to increase the amount of state funds available to highway districts from \$500,000 to \$3,000,000 annually will be presented by Carl Mau of Redding at the state-wide meeting of the California State Chamber of Commerce next Thursday at the St. Francis Hotel.

Mau is chairman of a special committee of the chamber on the revision of the joint highway district law.

An analysis of proposed additions to the secondary road system of the state will be made by Carl Lamus, president of the Sacramento Chamber of Commerce and chairman of the highway committee of the Sacramento Valley Council of the state chamber.

ENGINEERING SOCIETIES EMPLOYMENT SERVICE

Further information regarding positions listed in this column is obtainable from Newton D. Cook, Room 715, 57 Post Street, San Francisco. (Phone Sutter 1684).

- R-3349-S SALESMAN, young man with car, to do promotion work for dealers. Must have experience selling roofing to owners. Salary and expenses. Location, Northern Calif.
- R-3367-S ENGINEERING ASSISTANT, 26-30 years, to check quantity estimates, run levels, assist time-keeper and make himself generally useful to contractor's superintendent on grading job. Must be able to stand cold weather and camp life. Salary \$150 and board. Location, Northern Arizona, Headquarters, San Francisco.
- R-3355-S DRAFTSMAN, first class topographic draftsman and tracer, for oil company. Salary about \$175 month. Apply by letter with references and samples of ability. Location, Texas.
- K-323-W-1797-C-S CHIEF CONSULTING ENGINEER having broad knowledge of all details of automobiles and with at least five years' experience on the standardization of automotive design, to develop specifications on automobiles, trucks, motorcycles and automotive equipment. Knowledge of tractors, their design and equipment desirable. Salary open. One third to one-half in paper rubles for living expenses, balance in United States money in an American bank. Applications only by letter which will be forwarded to Moscow for decision. Location, Russia.
- R-3366-S MECHANICAL ENGINEER preferably graduate, not over 32 years, with 3-5 years' experience on the board, for general mechanical design and detailing. Salary \$175-250 month. Location, San Francisco.
- W-1270-C ENGINEER, for executive position. Must be experienced in lumber. Duties will be to study uses for product, markets, determine policies and budgets. Apply only by letter. Location, Midwest.

CALAVERAS FLOOD CONTROL 'DAM IS ACCEPTED

Acceptance of the Calaveras Flood Control Dam, recently completed by Bent Brothers of Los Angeles, was voted by the Stockton City Council, October 14.

A resolution authorizing an appropriation of \$210,000 as final payment on the project will come before the council next Monday.

A "rider" on the resolution of acceptance provides that the city will be protected for all time against possible damage suits the contractors might institute. The dam cost approximately \$1,650,000.

A formal dedication and public celebration at the dam are planned for the near future.

GRADE-CROSSING ELIMINATION COSTS CITED

Railroads of the United States in 1920 spent \$28,445,680 for the protection or elimination of highway grade crossings. Of that amount \$25,113,338 was spent for separation of grades and \$589,941 for abandonment or removal of highway grade crossings. For automatic warning devices, gates, signals and signs designed to protect human life at crossings, \$2,742,401 was expended.

REVISED PLASTER ORDINANCE BEING ENFORCED IN L. A.

The new Los Angeles city plastering ordinance requiring three coats for all exterior work, which went into effect September 16, is being enforced on all jobs for which permits were issued subsequent to that date, according to Southwest Builder and Contractor.

The ordinance provides that:

1. Grounds for plaster lath, fiber lath and/or wood lath shall be not less than seven-eighths of an inch in thickness instead of three-fourths of an inch. Grounds for metal lath shall be the same as in the past, not less than three-fourths of an inch in thickness. This exception of plaster applied directly to tile or masonry.
2. All exterior plastering shall be three coat work instead of two coat work as the old ordinance provided and shall be not less than seven-eighths of an inch in thickness except when applied directly to tile or masonry.

3. The minimum gauge of string wires has been changed from No. 16 B. & S. to No. 18 W. & M. and wires shall be nailed at points not more than thirty-two inches apart instead of every stud.

4. Waterproof paper instead of being nailed every eighteen inches shall be nailed at points not more than four feet apart horizontally and three feet apart vertically.

5. Every first coat of exterior plaster and/or stucco instead of having a minimum thickness of three-eighths of an inch measured from the face of the backing shall have a minimum thickness of not less than five-sixteenths of an inch measured from the face of the backing. Plastering applied directly to tile or masonry is excepted as in the past.

6. The mortar mix for exterior work instead of being one part of portland cement to three parts of sand, shall now be one part of portland cement to more than four parts of sand.

7. Every second coat of exterior plaster and/or stucco instead of having a minimum thickness of one-fourth of an inch measured from the face of the first coat shall have a minimum thickness of three-eighths of an inch measured from the face of the first coat.

8. Every third coat of exterior plaster and/or stucco shall be of approved material and be of sufficient thickness to comply with the total minimum thickness required. If brush coat is used, it must be applied after the third coat of cement plaster is applied.

9. Instead of two coat work on wood lath, there must now be three coats. The minimum thickness of the latter shall not be less than one-half inch measured from the face of the lath or plaster reinforcing except where metal lath is required and then the minimum thickness shall be the same as in the past, not less than three-fourths of an inch measured from the back of the lath.

10. The first coat on wood lath shall be thoroughly scored, scratched or combed and shall have been applied and in place for not less than twelve hours before the second coat is applied and shall be not less than one-eighth inch in thickness measured from the face of the lath or plaster reinforcing.

11. Two coat work may still be used on composition lath, but with a minimum thickness of one-half of an inch of plaster measured from the face of the lath, instead of three-eighths of an inch.

12. The second coat on wood lath shall have been in place not less than twelve hours before the third coat is applied.

13. The third coat on wood lath shall be of sufficient thickness to provide the minimum thickness of one-half of an inch of plaster measured from the face of the lath.

NEW OIL BURNER TEST CODE IS DRAFTED

The technical research committee of the American Oil Burner Association completed its draft of the test code for testing oil burners and steam boilers at a meeting in New York on October 7, according to an announcement by Harry F. Tapp, executive secretary of the Association.

The test code was developed in connection with the research work now being conducted at Sheffield Scientific School, Yale University, by Professor L. E. Seelye. The work is being done in co-operation with the research laboratories of the American Society of Heating and Ventilating Engineers and the American Oil Burner Association.

Members of the committee who participated in the final draft of the code were J. H. Melville, Melville Burner Corporation of Evanston, Ill., chairman; R. W. Beckett, Silent Automatic Corporation of Detroit; Homer Linn, American Radiator Company, New York; Professor Seelye; W. C. Schoenfeldt, technologist of the American Oil Burner Association, and Harry F. Tapp, secretary.

CALIFORNIA MAINTAINS ROAD BUILDING RECORD

That California has forged to the forefront of American states in highway construction is revealed in an announcement of a record expenditure of \$25,294,000 in road projects during the present state biennium.

Before the end of the biennium next July an additional \$1,425,000 will have been spent, thus completing a total budget of nearly \$30,000,000 for the two-year period and ranging as one of the greatest highway programs in California history.

In making public this schedule of road extensions, C. H. Purcell, state highway engineer, announced that all highway construction has been pushed in compliance with the appeal of President Hoover to provide work.

LEAGUE OF MUNICIPALITIES ELECTS OFFICERS

C. H. Bidwell, mayor of Sacramento, was elected president of the League of California Municipalities at the annual convention at Long Beach, succeeding Gordon Whinnall, city planner of Los Angeles. Mr. Bidwell is an attorney.

The engineering group of the league elected as its chairman, C. R. Blood, assistant city engineer of Sacramento; vice-chairman, V. C. True, office engineer of Los Angeles; city engineering department secretary, Roy W. Fowler, city engineer, Santa Cruz.

The city managers' group chose A. E. Stockberger of Alhambra as chairman; James S. Dean, Sacramento, vice-chairman; and J. W. Price, Anaheim, secretary.

The city planners' group elected Rooves Conover of Monterey, chairman; Mortimer J. Clark, Long Beach, vice-chairman; and Bernard Brennan, Glendale, secretary.

B. J. Pardee of Visalia, was elected president of the California Sewage Works Association, which met at the same time the League was in session. He succeeded F. A. Batty of Los Angeles. W. A. Allen of Pasadena was elected first vice-president; John Jacobson of University of California Farm Davis, Calif., second vice-president, and E. A. Reinke was re-elected secretary-treasurer.

REAL ESTATE EXECUTIVE PICTURES RADICAL CHANGES IN PLANNING OF THE HOME

Single family houses in this country will undergo radical changes in the next ten years, says Herbert U. Nelson, Executive Secretary of the National Association of Real Estate Boards.

Interested in housing on behalf of the thousands of Association members who handle homes or home sites, Mr. Nelson, writing on the home of the future, sees more and more attention paid to giving the home dweller better light and air.

So the houses he says which will dot the landscape a decade from now will have flat roofs that can be utilized for outdoor living rooms. They will have opaque windows as wide as store show windows, providing an abundance of air and light without loss of privacy because, though the sunshine can get in, the public gaze cannot.

He predicts "thinner and thinner" walls and partitions which will save so much space and expense that the home builder can add another room without increasing the dimensions of house plans used at present.

And he pictures the future home dweller reclining with comfort on a hot summer night, with pleasant breezes fanning his cheek from the house cooling system.

They Still Want Beds

But he does not think the ultra-modern designs recently advanced by some architects are practical, and says that the public is accustomed for hundreds of years to sleeping in beds will not accept the space-saving ship bunks put in one of these plans.

"The pitched roof will not be seen in the future," says Mr. Nelson. "It was brought here from the northern countries of Europe where it was originated to shed snow and rain. The 'pitch' was relied upon to carry off the water. The modern downspouts and gutters and the waterproof character of the modern roofing materials make it unnecessary to pitch roofs now to combat the elements.

Flat Roofs Seen Already

"There is no reason why a house cannot be roofed with a flat surface which can be used for an outdoor living room in these days of small building lots when yard and recreation space is at a premium.

"One sees flat roofs in some southern cities but they are beginning to appear in northern cities and suburbs, and I predict that in time there will be no more pitched roofs in this country. One family has built an open air place on their roof garden which they have landscaped effectively. It is one of the most pleasant places I know of.

"Nor do flat roof houses have to be monotonous. Ornamentation and special architectural treatment can make them as varied as the pitched roof type. A single room in any shape can be erected on the roof so the roof surface will form a sort of promenade around such a room. There are many other treatments that the architects can work out.

Give Them The Air

"The point is that people never have enough space, and there is a definite trend to search out all possible unused space in home construction. Why cover up the roof so it cannot be used, when the house can be made just as interesting architecturally with a flat roof?

"With physicians continually stressing the importance of adequate air and light, future generations are going to demand even more provisions for these important elements, yet the growing congestion of our cities makes it difficult to get either. The home of the future, therefore, will be so constructed that it will receive two or three times the amount of air and light secured by the homes of today.

"I believe we will come to use opaque windows, such as those used in factories at present. The glass admits light but cannot be seen thru. These will be as large as some present day store windows, which will give houses the pleasing appearance of sun parlors. Several of these giant windows will be placed in each side wall, with the center one of transparent glass.

And No Cellar Steps

"The basement will be eliminated entirely. It is costly, inefficient, and serves few useful purposes to the modern family except as a storage place for the heating system. Heating systems will be the garages which will be attached to the houses. Within the next ten or fifteen years, every house built will be built with a garage.

"Building lots will change in size, because of the advent of the attached garage. Sites will be wider and shorter to accommodate the attached garage on the side. This tendency is so strong that it may affect architectural styles in that such designs will have to conform to the wider lots. The attached garage is, of course, a space saver. One does not require a deep lot as in the days when the barn was placed at the end of the back yard, probably in order to keep the stable odors as far as possible from the house. Perhaps people didn't realize this when they began substituting garages for barns. At any rate, until recently, the garage was placed about where the barn had been.

Turn Houses Inside Out

"Floor plans will be shifted so that the living rooms will appear at the back of the houses and the kitchen and service rooms on the street side. Living rooms were originally placed along the street because the street was thought of as a parkway, lined with trees and gently traversed by carriages. Then it was pleasant to sit on the front porch or to linger in the front room windows.

"Then too front yards were used as play places for the children and mothers sat on the verandas with their sewing and watched their offspring romp close to the old fashioned curb. Now, in our cities, the front yard is the very last place in which mothers want their children to be, and even suburban parents are fearful of passing automobiles.

"Fewer houses have porches, and no one in our cities wants to sit on them anyway. The dust, dirt, and noise from the street, the automobile racing by, the thud of heavy trucks, makes the front of the house a far from pleasant place in which to linger. Thus, there is a tendency already to turn houses around on their lots and place the living rooms at the back and the kitchens on the street. The living room then can open onto the back yard which can be made attractive with flowers and landscaping, and a far greater degree of quiet can be enjoyed by the home dweller.

"Walls and partitions will be thinner and thinner without decreasing the durability of the house. There is already a trend in this direction due to the improvement of insulating materials and the use of new wall materials. Centuries ago when a man built a house, he usually built it of stone with walls a foot and a half thick. He did this to keep his house warm and dry as possible during bad weather. His construction kept his house cool in summer.

Two Inch Walls

"Now insulating materials of infinitesimal thickness will do this, and new building materials are provided durable walls that need be only a few inches thick. Most walls are eight inches under present building codes, but these codes will be revised in the future to permit four and, perhaps, even two inch walls and partitions.

"Stop and think of the saving in cost of materials in such a change. In addition, there will be saving in usable space that will surprise the builder when he figures it out. Suppose you usually make walls 8 inches and you find you can make them 4 inches and achieve the same structural result. You could save space enough to make a bathroom or a small bedroom. The further development of such wall materials as steel, and other products, will actually cut down on the cost, and add floor space to the average home.

Nice For The Summer

of the future will have one plant which will heat it, make its ice, and wash and cool its air when necessary. "The future home dweller will not have to go to summer resorts in the hot weather. The cooling systems, that I am sure will come, will not only regulate the temperature throughout the house but will make it possible to regulate the temperature in an individual room.

"Picture the home owner of the future coming home on a sizzling hot evening and finding cool breezes playing through his bedroom.

"I do not think the public will accept some of the ultra-modern house ideas and designs that we have seen in the magazines recently. Our members get to know the public mind on this subject pretty well, and we find that the rank and file of people have very definite and deep-rooted ideas of what homes should be.

"They like improvements if they can't see them, but if you change the house too radically, they won't like it. They won't accept the circular rooms one architect predicts, and they won't sleep in ship's cabin bunks that another architect forecasts.

"People want homes to look like the homes they dream about. If you can improve the home without altering the dream too much, they will accept it. Put when young couples dream about the home they want, they don't dream about revolving doors, or futuristic angles. The pink and white sugar cottage is still popular!"

PANELBOARD PRODUCTION

A new publication covering panelboards has been issued by the Westinghouse Electric & Manufacturing Company, Brooklyn, New York. This 12-page booklet, identified as Special Publication 1590, contains typical panelboard specifications to help the architect and consulting engineer, descriptions of Westinghouse panelboards, and many illustrations showing these panels and their construction.

The publication has been given A. I. A. File No. 3133 told A. I. A. File Number 31631. A request addressed to any office of the Westinghouse Electric & Manufacturing Company for a copy of S. P. 1590 will bring a copy of this publication.

BUYS PLANNING MILL

H. C. Evans has become sole owner of the Tulare Planning Mill Company, King and H. Sts., Tulare, having purchased the interest of his partner, H. H. Newby. Evans and Newby had been partners in the business for 22 years. Newby will remain in Tulare, but has not announced his business plans for the future.

ARCHITECT'S CONCEPTION OF QUANTITY SURVEYOR PROFESSION

By Wilbur T. Trueblood, President, St. Louis Chapter, A. I. A.

Address of Mr. Trueblood at the Fifth Annual Convention of the American Institute of Quantity Surveyors in St. Louis, Mo., April 15, 1930.

As an architect, I can realize that the quantity surveyor has a big job. Anyone who lists the items and estimates the amount of labor and material in any proposed work has much to do. There can be no doubt in my mind that any architect would do everything within his power to help in such a work, for he knows its value.

As I say, this listing and estimating is a big job. A quantity surveyor must think of many things. I am reminded of a nursery rhyme. If you will look back to your childhood, and review Alice in Wonderland, you also will remember this:

"The time has come," the walrus said

"To speak of many things,
Of ships and snails and sealing wax

And cabbages and kings."

The walrus evidently was getting ready for a general survey. I'm not sure if it was ever to be a quantity survey, but it was the start of a list, and it is a famous one, but it is an old list and not nearly complete.

If the walrus were here tonight, I think he would tell you that his list should begin thus:

"The time has come," the walrus said,
"To think of many bricks,
Cement, and sacks, and chimney stacks,
And varnish cans, and picks;

"Of yards of dirt, and length, and girt;
And gravel pits, and sand;
Of building loads, and city codes,

And wondering if they'll stand.

"Of boards and planks, and water tanks
And excavating tools;
Of depth, and height, and dynamite,
And, maybe, swimming pools.

"Of plastering, and lathing,
And elevator shafts;
Of knobs and doors, and concrete floors,
And men, and time, and crafts.

"Of painting trades, and shovel blades,
And salamander pots;
Of nickel plate, and completion date,
And all the whats and nots.

"And when we're done, but have added one,
To the vast and varying;
We have a list—perhaps we've missed
The most important thing."

While this sounds facetious it is only a jumbled up part of the many, many things that a quantity surveyor must keep in mind and about which he must have a very definite and accurate knowledge. We as architects realize the size and importance of their work. We know that a great amount of patience and a great deal of care, and time, and skill, is expended in listing the things which must be included in the building program.

The erection of a building is not a game. Everyone connected with it is engaged in the serious business of creating a building. For all of us who are thus engaged together in this work — architects, builders, quantity surveyors, workmen — there exists the great responsibility of giving to our client a good building, a safe building, and an economically built building.

employer and boy is not widely practiced, there is coming into use a system which amounts to the same thing. That is the joint apprenticeship committee system. These committees are composed of representatives of employers and of journeymen and, in some cases, of the city school boards. Apprentices are under agreement with the committee to serve their full time and to abide by the laws of the committee, which on its part takes the responsibility of seeing that the boy has employment and proper opportunities for training throughout his apprenticeship.

Where joint committees do not operate, the union may serve the same purpose, the apprentice being in effect indentured to the local union and governed by the terms of the working agreement between the union and the employers, with the union acting as placement agent to keep the boy employed.

Apprentice training has more vitality, is more closely organized, and is affecting the building situation more definitely in those centers in which the division of vocational education of the local school board, acting under the Smith-Hughes law, is cooperating than in the cities in which the contractors or the unions are trying to work out the problem alone.

In the building trades, at least, there seems to be no shortage of material for training and long waiting lists of applicants for apprenticeship are common. An experience some time ago of the commission on apprenticeship in one large city illustrates the point.

In an effort to arouse interest among contractors and the public in the program and work of the commission, its secretary broadcast an address through a local radio station. "The results," he said, "were illuminating and disappointing. We were flooded with requests from boys and parents for more information and with applications for apprenticeship, but not one contractor came forward with a request either for details of the system or for an apprentice."

JURISDICTION OF SUPERIOR COURT IN LIEN CASES DEFINED

The superior court has exclusive jurisdiction in mechanic's lien cases where the amount demanded is from \$300 to \$2000 and the property involved is outside a city having a municipal court, according to a decision by Division Two, District Court of Appeals, denying a writ of prohibition which O. N. Scott had sought against the Los Angeles Superior Court, says Southwest Builder.

Scott is a party to five actions in the Superior Court, each to foreclose a mechanic's lien and in each of which the amount demanded is less than \$2000. Seeking to restrain trial of the cases, Scott alleged that the Los Angeles municipal court had exclusive jurisdiction.

The appellate opinion denying this contention was delivered by Justice Gavin Craig and concurred in by Presiding Justice Lewis Works and Justice Ira Thompson. The property against which the liens are directed is in the city of Pasadena.

The appellate court pointed out that Sec. 13, Art. 6 of the Constitution gave the Legislature power to fix the jurisdiction of municipal courts and this was fixed at \$2000, based on a previous method of territorial allocation. The change gave the superior court original jurisdiction in demands for amounts between \$300 and \$2000. It was concluded, and it therefore has exclusive jurisdiction of mechanic's liens between those amounts outside the City of Los Angeles.

APPRENTICESHIP METHODS CHANGED BY SPECIALIZATION

Specialization in industry has greatly altered the system of apprenticeship whereby a young man learned an entire trade, the Commissioner of Labor Statistics, Ethelbert Stewart, stated orally Sept. 19 at the Department of Labor, says the U. S. Daily.

When a man is needed today in one definite phase of an industry, there is little need of his learning a trade, it was explained. Another factor contributing to the decline of the old system has been the hesitancy on the part of employers to hire men to train. Usually there is an abundance of labor available which has already been trained.

Additional facts set forth by Mr. Stewart follow:

Apprenticeship still exists today. But it is now a common practice for a boy to get his training in a school rather than through actual work at his chosen trade although he may also receive the latter type of training in addition to schooling. Of late years one of the notable developments in the apprenticeship system has been the establishing of corporation schools. The Santa Fe Railroad started such a school in a western state to train men for railroading. And its popularity and production of capable men led to the institution of similar schools in other lines of industry.

Vocational training in high school does not usually enable a boy to learn a trade thoroughly. As a matter of fact, this type of training is scattered throughout a number of fields. Probably its greatest practical value lies in giving a youth an idea of the work for which he is best fitted and in which he will be best satisfied. In addition, he acquires knowledge that is helpful to him in everyday life, often enabling him to cut down living expenses. Through this education he may learn, for example, how to perform minor adjustments on his automobile, how to do carpentry work on a small scale, or how to do a bit of blacksmithing.

Some cities have organized movements for training apprentices in accordance with provisions of the Federal Vocational Education Law. In some cities evening school attendance is required and in others, part time day school attendance on paid for time. Figures for 1928 in 18 of the larger cities of the country show that there were in the building trades alone more than 19,000 apprentices formally indentured, registered with unions, or bound in some manner. School attendance was not required for all these apprentices, however.

While apprenticeship in the building trades by formal indenture between

TREATED LUMBER IS NEW FIELD FOR RETAIL DEALER

(By T. F. Laist, Chairman Subcommittee on Treated Lumber, National Committee on Wood Utilization).

Just at a time when retail lumber dealers are more alert to new business opportunities than ever before the distribution of treated lumber comes to the front. Treated or chemically preserved wood is not new, as every lumberman knows, but heretofore only a comparatively few retail lumber dealers have taken advantage of the trade possibilities which it offers when carried in stock in standard sizes and grades suitable for house, small building construction and farm uses. As such, treated lumber affords a new and profitable field to the retail dealer.

Most lumbermen agree that if lumber as a building material is to retain its present position, constant efforts must be directed toward increasing its usefulness to the ultimate consumer. Through the application of preservatives to wood, its chief enemies—decay and depreciation through insect attack—are checked. In the past a large market has been lost to wood for purposes where its use would have been both desirable and economical had it not been for these enemies. The question today is whether to use treated wood or dispense with lumber altogether.

New Markets

These facts are generally recognized, and as a result the progressive retail lumberman is on the lookout for ways and means of not only maintaining present markets, but of opening new ones. Manufacturers and wholesalers already have exploited treated lumber in the railroad and industrial field, and have increased the volume and profits of their business. Only a small portion of this business, however, has passed through the retail dealer because it has not been practicable to carry in stock the items and quantities desired.

It has been well nigh impossible for the small user to obtain the few hundred feet of treated lumber in the proper sizes and grades that he has needed to give his buildings the protection against decay and insect attack which they should have.

As a result of this situation within the lumber and wood preserving industry itself, the home builders, the small consumer, and until recently even architects and contractors, have looked upon treated wood as of usefulness mainly in heavy requirements, and readily available only in large quantities. As advances have been recorded in the home building field of recent years, however, architects and builders have gradually come to realize that treated lumber is suited to many of their needs in houses and small buildings. Herein lies new business for the retail lumber dealers who stocks items and grades which can be employed.

Installing Stocks

Distribution through the retail dealer is the logical means of making this material available to the millions of small consumers. Retail lumber dealers all over the country are realizing this new business opportunity, and many of them are installing stocks of treated material. However, in Ohio where a systematized plan of distribution is being carried out under the sponsorship of the National Committee on Wood Utilization of the Department of Commerce, the greatest advances are being made.

This plan which is being worked out in cooperation with the Ohio Retail Lumber Dealers Association has two major purposes. First, of making supplies of treated lumber in standard sizes and grades suitable for house and small building construction available through

the retail lumber dealers. Secondly, the plan provides for a widespread promotion campaign to familiarize the consuming public with the advantages and uses of treated wood.

By virtue of several months' activity, treated lumber may be obtained through the retail lumber yards in Ohio in the following standard sizes and grades:

Pressure Treatment—Zinc Chloride or Cresosote Softwoods No. 1 Com. Rough S.D.

2x4—14 ft. lengths,
2x4—16 ft. lengths,
2x4—18 ft. lengths,
2x4—20 ft. lengths,
2x6—14 ft. lengths,
2x6—16 ft. lengths,
2x6—18 ft. lengths,
2x6—20 ft. lengths,
2x8—14 ft. lengths,
2x8—16 ft. lengths,
2x8—18 ft. lengths,
2x8—20 ft. lengths,
2x10—14 ft. lengths,
2x10—16 ft. lengths,
2x10—18 ft. lengths,
2x10—20 ft. lengths,
2x12—14 ft. lengths,
2x12—16 ft. lengths,
2x12—18 ft. lengths,
2x12—20 ft. lengths,

No. 1 Com. Rough

4x4—16 ft. lengths,
4x4—18 ft. lengths,
4x4—20 ft. lengths,
6x8—16 ft. lengths,
6x8—18 ft. lengths,
6x8—20 ft. lengths,
6x6—16 ft. lengths,
6x6—18 ft. lengths,
6x6—20 ft. lengths,

Rough No. 1 Com.

1x6 Boards,

1x8 Boards,

Pressure Treatment Zinc Chloride Only

6/4 No. 2 Shop Rough,

6/4 No. 1 Shop Rough.

Educating Public

With supplies of treated lumber available, the National Committee and its cooperating agencies are engaged in familiarizing the lumber consuming public with its uses. "Treated Lumber, Its Uses and Economies," a new bulletin, has just been published by the Committee and is being given a wide distribution among lumber users. The Ohio retail lumber dealers are aiding the movement by calling the attention of their architects, contractors and builders to the new publication which recommends treated lumber for use in house, small building and farm construction. In this connection the bulletin says:

"The acquisition of a home is in most instances the most important investment which the average citizen undertakes. Generally home ownership depends on the securing of a loan, and the terms of this loan are based largely on the value represented by the house. It is therefore evident that the home owner must not only consider the question of good design, plan and construction, but he must also check up on the quality of the building materials used because the life of the house is in direct proportion to the life of the materials employed. The best construction methods will not prevent a wood structure from decay and insect attack unless the materials are of good quality. If good building materials have not been employed, there are certain vital parts of a wooden structure which are particularly subject to decay and insect attack. If the home owner will insist on protecting his interests by using treated wood in the construction of such parts, he will undoubtedly find this fact taken into

consideration by the banker who grants the loan. The use of preserved wood will therefore contribute to the increase in individual home ownership."

Certain trends of modern architecture favor setting the house as close to the ground as possible, and in such cases treated wood may be used to the advantage in foundations and sills, according to the new bulletin. In such points out other uses which the retail lumber dealer may recommend to his customers as follows:

"In many cases home owners are desirous of remodeling their houses and this affords an opportunity for the use of treated lumber to effect an appreciable economy through its use. It is reasonable to expect that proportionately greater savings will accrue to the smaller consumers on whom the burden of repair and premature depreciation rests more heavily. For this reason the National Committee on Wood Utilization is sponsoring the retail distribution of treated lumber, to make it available to the average lumber consumer."

Retail lumber dealers in other states will doubtless watch the progress of the treated lumber movement in Ohio with an eye toward capitalizing on the distribution of this material themselves. Full information can be obtained from the National Committee on Wood Utilization at Washington and copies of the new bulletin may be obtained at a nominal charge from the Superintendent of Documents, Government Printing Office, Washington, D. C., or through the District and Cooperative Offices of the Bureau of Foreign and Domestic Commerce, Department of Commerce, in leading cities.

The Portland Chapter of the Associated General Contractors of America has protested the activities of the Oregon Institute of Technology in sending out a circular relating to a course of instruction which is intended to help men who are practical carpenters to "break into contracting." Such a proposal, the chapter feels, is a dangerous one. In a letter to the institute, Mr. George B. Herington, secretary of the chapter, points out that the industry is cursed with financially irresponsible persons who "break in."

There is no objection in the industry, Mr. Herington says, to legitimate competition by people who are able to pay for their own mistakes, nor any objection to the man who wishes to start upon his own and who does so with proportionate business responsibility and understanding as a back-ground for his small or large endeavor. However, he says, the contracting business is a business and must be so approached and when it is not, the insecure adventurer gets hurt, the owner always gets hurt, labor gets hurt and the material man gets hurt.

Instead of teaching "breking in" contracting, Mr. Herington urges that the institute instruct men in responsibility in construction and pledges the full support of the association in this endeavor.

GALVANIZED IRON IMPORTING FORBIDDEN BY AUSTRALIA

The Australian Minister for Trade and Customs has issued a proclamation which became effective October 4, prohibiting the importation of all galvanized iron, according to a radiogram received by the U. S. Department of Commerce, from Trade Commissioner James E. Peckham at Sydney. The minister's consent has been given for the importation of such goods if they were actually in transit on October 4.

Building News Section

APARTMENTS

Plans Being Figured.

APARTMENTS Cost, \$—
LOS ANGELES, Cal. SW Franklin and Cherokee Aves.
Ten-story Class A reinforced concrete apartments (240 rooms).
Owner—Cherokee Properties, Ltd.
Architect—Marcus P. Miller, Board of Trade Bldg., Los Angeles.

Bids are being taken for a general contract with separate bids for plumbing, heating, electric, mechanical work, refrigeration, sprinkler system, fire protection, elevators, incinerator, laundry chute, etc.

Segregated Bids Being Taken.

APARTMENTS Cost, \$—
OAKLAND, Alameda Co., Cal. Orange Ave.-Adams Point District.
Three-story and basement frame and stucco apartments (90 rooms).
Owner—N. Badding, 118 Athol Street, Oakland.

Mgrs. of Const.—C. M. Gass & Co., 1404 Franklin St., Oakland.

Architect—Clay N. Burrell, American Bank Bldg., Oakland.

Segregated bids are being received by managers of construction.

Sub-Bids Wanted.

APARTMENTS Cost, \$45,000
OAKLAND, Alameda Co., Cal. N 34th St. E Grove St.

Three-story and basement frame and stucco apartments (42 rooms).
Owner and Builder—Edward C. Gilbert, 581 33rd St., Oakland.

Architect—F. H. Slocombe, 62 York Drive, Piedmont.

Sub-bids are wanted on all portions of the work excepting lumber, carpentry work, plastering and concrete foundations.

Mill Work Contract Awarded.

APARTMENTS Cost, \$150,000
SAN FRANCISCO, Pacific Ave. and Baker Street.

Three-story steel frame and concrete semi-fireproof apartments (six 6-room apts.).

Owner and Builder—W. R. Voorhies, Inc., 369 Pine St.

Plans by A. D. Janssen, 269 Pine St. Mill Work—Sunset Lumber Co., 400 High St., Oakland.

As previously reported, structural steel awarded to McClintic-Marshall Co., 2050 Bryant St.; reinforcing steel to Concrete Engineering Co., 1280 Indiana St.

Owner Taking Bids.

APARTMENTS Cost, Approx. \$300,000
ALAMEDA, Alameda Co., Cal. NW Webster and Taylor Sts.

Seven-story reinforced concrete and steel apartments (60 2, 3 and 4-room apts.).

Owner—J. S. Berecovich, Actico Bldg., Oakland.

Plans by Thomas Keenan, 1440 Broadway, Oakland.

Segregated Bids Being Taken From Selected List of Contractors.

APARTMENTS Cost, \$20,000
EMERYVILLE, Alameda Co., Cal.

One-story and basement frame and stucco apartments (six four-room apts.; Spanish type).

Owner—Mrs. O. H. Reese.
Architect—George Ellinger, 1723 Webster St., Oakland.

Contract Awarded — Sub-Bids Being Taken.

APARTMENTS Cost, \$50,000
OAKLAND, Alameda Co., Cal. Mandana and Erie Sts.

Three-story frame and stucco apartments with full concrete basement (15 2, 3 and 4-room apts.).

Owner—Mrs. Louise Brain.

Architect—Clay N. Burrell, American Bank Bldg., Oakland.

Contractor — H. L. Robertson, 365 Hanover St., Oakland.

Segregated Bids Being Taken.

APARTMENTS Cost, \$250,000
VALLEJO, Solano Co., Cal. Sonoma and Capitol Streets.

Six-story and basement class C concrete apartments (60x132-ft.; 72 2-3- and 4-room apts.; tile roof).

Owner—Dr. Burton Jones, 327 Georgia St., Vallejo.

Plans by L. Mazurette, 576 Fifth St., Oakland.

Project has been held up for the past year.
(3518) 1st report Sept. 20, 1930. 1

Plans Being Completed.

APARTMENTS Cost, \$60,000
SAN FRANCISCO, Forty-fifth Ave. and Geary Street.

Three-story and basement frame and stucco apartments (15 3-rm apts).
Owner and Builder—M. P. Storheim, 475 Euclid Ave., San Francisco.

Plans by Lawrence Ebbets, 320 Fulton St., San Francisco.

Sub-bids will be taken in one week. Will have steam heating system, tile roof and elevator.

Plans Being Figured.

APARTMENTS Cost, Approx. \$18,000
OAKLAND, Alameda Co., Cal. Park Blvd.

Two-story and basement frame and stucco apartments.

Owner—H. E. Lansing.

Architect—F. H. Slocombe, 62 York Drive, Piedmont.

Bids are being received by owner on a general contract and also segregated bids.

Stucco apartment with the roof and three-story and basement frame and stucco apartments.

Owner—H. E. Lansing.

Architect—F. H. Slocombe, 62 York Drive, Piedmont.

Bids are being received by owner on a general contract and also segregated bids.

A Demonstration of the

SKILSAW PORTABLE ELECTRIC HAND SAW

Will solve your cutting problems.

(Four Models, 1/2 to 1 h. p.)

ELECTRIC HAMMERS

ELECTRIC DRILLS

GRINDERS, BUFFERS

PETER H. NELSON

Labor Saving Portable Electric Tools.

1248 Mission St.
San Francisco

Underhill
7662

5-room apts.) and 11-room residence with 3 baths (70x70-ft.)
Owner—Withheld.

Architect—Albert Schroeffer, 681 Market Street.

There will be two separate entrances to the building. Steam vapor heating system and all modern conveniences.

Contract Awarded.

APARTMENTS Cost, \$125,000
SAN FRANCISCO, NE Fair Oaks & Twenty-fifth Sts.

Six-story and basement Class C steel frame and concrete apartments (36 3-room apts.)

Owner—V. Gullmes, 1203 Guerrero St., San Francisco.

Plans by Owner.

Engineer—J. M. Smith, 251 Kearny St., San Francisco.

Contractor — P. C. Fisher, 1122 Noe St., San Francisco.

BONDS

FRESNO, Fresno Co., Cal.—Election will be held November 10 in Orange Center School District to vote bonds of \$2500 to finance erection of new school. Trustees of the district are: J. A. Mitchell, J. O. Steinhauer and A. L. Thuesen.

NAPA, Napa Co., Cal.—Steps are being taken by trustees of the Harmony, Franklin and Coombs School Districts to organize a union school district. If the district is organized, bonds will be voted to finance erection of a modern school plant to serve the three districts now maintaining their own structures.

SANTA MARIA, Santa Barbara Co., Cal.—Election will be held November 12 in Santa Maria School District to vote bonds of \$100,000 to finance erection of new school and additions to standing structures. Trustees of the district are Amelia E. Litzenberg, M. M. Purkiss and Nellie E. Rubel.

SACRAMENTO, Cal.—City Board of Education proposes to call an election to vote bonds of \$2,000,000 to finance erection of new schools and additions and alterations to standing school buildings. A survey of needed school improvements will be made by Chas. C. Hughes, city superintendent of schools, and a report will be submitted to the board on November 3.

CHURCHES

Sub-Bids Being Taken.

CHURCH Cost, \$750,000
LOS ANGELES, Cal. Sixth St. bet. Commonwealth and Hoover Sts.

Class A reinforced concrete and steel church plant.

Owner—First Congregational Church of Los Angeles.

Architect—Allison & Allison, California Reserve Bldg., Los Angeles.

Contractor — Richards-Neustadt Construction Co., W. M. Garland Bldg., Los Angeles.

Painting and Decorating Contract Awarded.

ALTERATIONS Cost Approx. \$50,000
SAN FRANCISCO, Van Ness Ave. and Broadway.

Alterations to exterior of church.

Owner — Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.

Architect—H. A. Minton, Bank of Italy Bldg., San Francisco.

Contractor—J. E. Scully, L'elan Bldg., San Francisco.

Painting and Decorating—D. Zellinsky & Sons, 165 Grove St., S. F.

Plans Being Completed.
CHURCH Cost, \$65,000

PITTSBURG, Contra Costa Co., Cal NW Black Diamond and W Eighth Sts.

Two-story reinforced concrete church with steel roof trusses (120x42 ft.)
Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco, a Corp. Sole, (St. Peter Martyr Parish), Rev. Louis A. Nasselli, Rector.

Architect—Arnold Constable, 580 Market St., San Francisco.

Plans will be completed in one week and turned over to the Archbishop for approval.

Will have full basement for Parish Hall and auditorium with seat 700. Will have stucco finish, the roof and be of Italian Romanesque style of architecture.

Plans Being Completed.
CHURCH Cost, \$100,000

SACRAMENTO, Sacramento Co., Cal. SW 39th and J Sts. (106x324-ft.)

Two-story brick and concrete church. Owner—Roman Catholic Bishop (Rev. M. L. Lyons, pastor)

Architect—Joseph Losekann, 1213 W State Life Bldg., Sacramento.
Bids will be taken about Nov. 1.

Construction To Start In One Week.
CHURCH Cont. price, \$10,153

STOCKTON, San Joaquin Co., Calif. Stanislaus and Lafayette Sts.

Two-story class C brick church with the roof (stage, social hall, and auditorium to seat 400).
Architect—Greek Orthodox Church.

Architect—Joseph Losekann, 1213 W Harding St., Stockton.
Contractor—T. E. Williamson, 1859 W Park St., Stockton.

FACTORIES AND WARE-HOUSES

Specifications Being Written.
STORAGE BLDGS Cost, \$12,000

OAKLAND, Alameda Co., Cal. Elmwood Ave., bet. 29th and Fruitvale Aves.

Two one-story concrete storage buildings.

Owner—Morris Draying Co., 101 Webster St., Oakland.

Architect—R. C. Schuppert, 4637 Park Blvd., Oakland.
Bids will be taken within one week

Plans Being Prepared.
FACTORY Cost, \$200,000

OAKLAND, Alameda Co., Cal. 102nd Avenue.

One-story class C concrete factory (to cover area of 12,000 sq. ft.)

Owner—Hammer Bray Co., 26th Ave. and E 12th St., Oakland.

Architect—Clay N. Burrell, American Bank Bldg., Oakland.
Consulting Engineer—W. W. Hanscom, 26th Ave. and E 12th St., Oakland.
Bids will be taken in about 2 weeks on sprinkler system and spur tracks. General contract bids will be taken at a later date.

HANFORD, Kings Co., Cal.—Kettleman Hills Gasoline Co. has completed negotiations with the Santa Fe Railroad for a site on which to erect a headquarters office building, storage and distilling plant with a capacity of 45,000 gallons a day. Construction is to be started at once.

BRADLEY, Monterey Co., Calif.—Plaster filler plant operated by A. P. O'Connell of San Jose and R. Fontaine of Oakland, 35 miles north of Kings City, was destroyed by fire October 14. The loss is estimated at \$100,000. The plant was used for grading diatomaceous earth, used as a filler in plaster and cement and for other commercial uses.

Sprinkler System and Spur Track 1/2 mi. Extended.

FACTORY Cost, \$200,000
OAKLAND, Alameda Co., Cal. 102nd Avenue.

One-story brick and concrete factory. Owner—Hammer Bray Co., 26th Ave. and E 12th St., Oakland.

Architect—Clay N. Burrell, American Bank Bldg., Oakland.

Consulting Engineer—W. W. Hanscom, 26th Ave. and E 12th St., Oakland.
Bids on the construction of the plant will be taken in one week. Bids are being received by the owner.

Being Done By Day's Work By Owner
INDUSTRIAL BLDG. Cost, \$40,000

SAN FRANCISCO, N Army St. bet. Mississippi and Missouri Sts.

One-story steel frame industrial bldg. Owner—Soule Steel Co., 916 Rialto Building.

Engineer—J. A. Cole, 2173 Oregon St., Berkeley.

Roofing and Painting Contracts Awarded.

ASSEMBLY PLANT Cost, \$3,500,000
RICHMOND, Contra Costa Co., Cal.

Group of steel frame and brick buildings (1-story assembly plant, 300,000 sq. ft.; 2 or 3-story wharf building and receiving building).

Owner—Ford Motor Car Co., Detroit.

Architect and Engineer—Albert Kahn, Inc., Marquette Bldg., Detroit.

Chief Engineer—(Ford Motor Car Co.) R. B. Brown, Detroit.

Contractor—Clinton Constr. Co., 923 Folsom St., San Francisco.

Painting—D. Zellinsky & Sons, 165 Grove St., San Francisco.

Corrugated Asbestos Roofing—R. J. Dorn Co., New Orleans.

Plans Being Figured.
FACTORY Cost, \$100,000

SOUTHWEST GATE, Los Angeles Co., Cal. Firestone Blvd. and Ehes Ave.

One-story brick and steel factory (210x400 ft.) (12' loading platform)

Owner—Rheem Mfg. Co. (Richard Rheem, President), 4535 Horton St., Emeryville.

Architect—Meyer & Holler, Wright and Callender Bldg., Los Angeles.

Preparing Working Drawings.
FACTORY Cost, \$70,000

OAKLAND, Alameda Co., Cal. Eighty-first Ave. near 14th St.

One-story reinforced concrete factory. Owner—Blue Bird Potato Chips, Inc., 68th Ave. and Deck St., Oakland.

Architect—Charles W. McCall, 1404 Franklin St., Oakland.

Bids will not be called before Jan. 2, 1931.

Sub-Bids Wanted.
LOADING ROOM Cost, \$5000

SAN FRANCISCO, S Golden Gate Ave., bet. Webster and Fillmore.

One-story Class C loading room. Owner—Langendorf United Bakeries, 1160 McAllister St., San Francisco.

Engineer—Ellison & Russell, Pacific Bldg., San Francisco.

Contractor—Barrett & Hilp, 918 Harrison St., San Francisco.

Contract Awarded.
SHOP BLDG. Cont. Price, \$11,276

BERKELEY, Alameda Co., Cal. Allston Way and West Street.

Shop building for Corporation Yard. Owner—City of Berkeley, Florence B. Turner, City Clerk.

Architect—Not Given
Contractor—George A. Scott, 47 Oakvale Ave., Berkeley.

Plans Being Prepared.
BUILDINGS Cost, \$—

SAN MATEO, San Mateo Co., Calif. Group of service buildings.

Owner—Pacific Gas & Electric Co., 245 Market St., San Francisco.

Plans by Eng. Dept. of Owner.

Sub-Contracts Awarded.
EXTENSION Cont. price, \$18,962

SAN FRANCISCO, Mills Field Municipal Airport.

Extensions to hangars under Contract No. 19.

Owner—City and County of San Francisco.

Engineer—Bureau of Engineering, 3rd floor, City Hall.

Contractor—Clinton Stephenson Co., Monadnock Bldg.

Reinforcing Steel—Truscon Steel Co., Call Bldg.

Pile Driving—Healy-Tibbitts Const. Co., 64 Pine St.

Electric Work—Atlas Eng. & Elec. Co., 343 4th St.

Glass—W. P. Fuller Co., 301 Mission Street.

Plumbing—W. E. Trousdale, 422 Turk Street.

Painting—A. A. Zellinsky, 4420 California St.

Roofing—Malott & Peterson, 3221 29th Street.

Sub-bids are wanted on mill work and plastering.

Plans Completed.
CREAMERY Cost, \$—

SAN FRANCISCO, 18th and York Sts. (137-6x300-ft.)

Two-story and basement class B concrete creamery (foundation laid for two additional stories to be added later).

Owner—Challenge Creamery and Butter Assn., 307 Montgomery St.

Architect—Dodge Bldg., Pacific Bldg.

Bids will be called for within the next few days.

GARAGES AND SERVICE STATIONS

OAKLAND, Alameda Co., Calif.—Following bids received by city clerk to furnish and install steel shelves, counters and cabinets in the Municipal Garage at the foot of Fifth Ave.:

General Fireproofing Co., 534 4th St., San Francisco. \$ 324

Worley & Co., San Francisco. 993

Colyear Motor Sales Co., S. F. 994

Smith Bros., San Francisco. 1,172

Bids held under advisement.

Owner Taking Bids.
GARAGE Cost, \$—

MORGAN HILL, Santa Clara Co., Cal. One-story tile garage.

Owner—R. H. Hencken, Morgan Hill.

Architect—A. W. Story, Pajaro Valley Bank Bldg., Watsonville.

Construction Postponed Indefinitely.
AUTO SALES BLDG. Cost, \$—

SAN FRANCISCO, Broadway and Battery Street.

One-story and basement reinforced concrete auto sales and service building.

Owner—A. A. Maggini Co., 123 Jackson Street.

Engineer—L. H. Nishkan, 525 Market Street.

Plans Completed.
SERVICE STATION Cost, \$—

SAN FRANCISCO, Twenty-second & Howard Sts. (100x100 ft.)

Steel frame service station.
Owner—General Petroleum Co., 310 Sansome St., San Francisco.

Architect—Erg. Dept. of Owner.

Bids will be taken in about thirty days.

GOVERNMENT WORK AND SUPPLIES

SAN FERNANDO, Los Angeles Co., Cal.—R. R. Hopper, 134 Fano St., Arcadia, submitted the low bid of \$3190 to the U. S. Veterans' Bureau for the erection of two 4-car garages and one 3-car garage at the San Fernando hospital. Bids were referred to Washington. Work will include excavating, concrete floors, walls of either 6-inch reinforced concrete, 8-inch concrete blocks or 6-inch hollow tile, carpentry, millwork, built-up roofing, painting, glazing and stuccoing. Other bids were: Harry Friedman, \$3696; Byerts & Dunn, \$3769; Greenfield Constr. Co., \$3797; Nelson & Henry, \$3890; F. & H. Construction Co., \$4203; Irving Construction Co., \$4362; J. F. Forsyth, \$4400; B. F. Hall, \$4538; Shattuck Construction Co., \$4989.50.

SAN FRANCISCO.—D. N. & E. Walter, 562 Mission St., at \$726.55 submitted lowest bid to Constructing Quartermaster, Fort Mason, to furnish and install linoleum in Isolation Ward Building No. 55 at the Letterman General Hospital.

Following is a complete list of bids:

D. N. & E. Walter.....	\$726
Van Fleet Frear Co.....	750
Conklin Bros., Inc.....	754
W. J. Sloan & Co.....	820
J. E. Higgins Lumber Co.....	897

Bids held under advisement.

PEARL HARBOR, T. H.—Until November 5, 11 A. M., under Specification No. 6005, bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., for alterations and additions to existing wood frame building and installation of refrigeration equipment furnished by Government at Naval Operating Base (Air Station), Pearl Harbor. Specifications obtainable from Bureau at Washington and from Commandant at the Mare Island Navy Yard, on deposit of \$10, returnable, checks for same to be made payable to Chief of the Bureau of Yards and Docks.

Bids Opened.

REPAIRS Cost, \$—
SAN FRANCISCO. Fort McDowell. Repairs to dock.

Owner—United States Government. Architect—Construction Quartermaster, Fort Mason.

Following bids received:

Healy-Tibbitts Const. Co., 64 Pine St., San Francisco.....	\$1120
A. W. Kitchen.....	1145
Duncanson Harrelson Co.....	1385
M. B. McGowan.....	1628

Bids held under advisement.

BOULDER CITY, Nev.—Bids will be asked shortly by U. S. Bureau of Reclamation, Denver, Colo., for the construction of the 7-mile Government railroad from Boulder City, Nev., to the site of the Boulder Dam.

SACRAMENTO, Cal.—Until October 28, 3 P. M., under Order No. 2551-1705, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver Rio Vista, Solano County:

50 ft. rubber hose, red, 3/16", for acetylene gas, corrugated, 1 braid.
50 ft. rubber hose, black, 3/16", for oxygen gas, corrugated, 1 braid.
2 springs for 1/2" Fisher pump, governor Serial No. 40245, steam pressure 100 lbs., water pressure 80 lbs.

2 Valve Disc, for above governor.
2 Valve Seats, for above governor.
200 boiler manhole gaskets, 10"x15" inside diameters, 1" with x 3/16" thick, for boilers carrying 200 lb. steam pressure.
100 lbs. bulk asbestos, suitable for repairing lagging on boilers.
150 lbs. cloth inserted sheet rubber packing, 1/4" thick.
15 rubber gaskets for 20" Plummer flexible joints.

SACRAMENTO, Cal.—Until October 30, 3 P. M., under Circular Proposal No. 31-114, Specifications No. 2538-1710, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver 3500 linear feet of Redwood or Creosoted Douglas Fir Piling. Further information obtainable from above.

Bids Opened.

GARAGES Cost, \$—
PALO ALTO, Santa Clara Co., Calif. Veterans' Hospital Grounds. Construct six single car garages. Owner—U. S. Government. Architect—Supervising Superintendent of Construction, U. S. Veterans' Hospital, Palo Alto.

Following is a complete list of bids: Alt deduct for omitting stuco finish.

A. Holyoake, Hayward	\$1,750; (1)
E. A. McCann, Palo Alto	\$1,990; (1)
A. F. Anderson, Oakland	\$2,018; (1)
The Milton Co., Palo Alto	\$2,381; (1)
Bilrite Const. Co., Berkeley	\$2,400; (1)
Carl N. Swensen, San Jose	\$2,533; (1)
Geo. B. Moore, Palo Alto	\$2,960; (1)

Young & Horstmeier, San Francisco	\$3,400; (1)
Vogt & Davidson, San Francisco	\$3,447; (1)
Chas. J. Koenig, San Francisco	\$3,489; (1)
David Nordstrom, Oakland	\$3,490; (1)
Leonard Diognardi, San Mateo	\$5,800; (1)
Edward Diognardi, San Mateo	\$5,800; (1)

This work will consist of excavating, placing concrete floors, laying up concrete block walls (concrete blocks will be furnished f.o.b. reservation by the U. S. Veterans' Bureau) built-up roofing for five of the garages, installing concrete tile roof on one garage (concrete tile will be furnished f.o.b. reservation by the U. S. Veterans' Bureau), carpentry, millwork, hardware, painting and finished grading.

SAN FRANCISCO—Chicago Bridge & Iron Works, Rialto Bldg., at \$5410 awarded contract by constructing quartermaster, Fort Mason, for construction of a 50,000-gallon steel water tank on a 55-ft. trestle at Fort Miley. Present steel water tank and trestle to be taken down by contractor for new work.

REPAIRS Cost, price, \$1160
SAN FRANCISCO. Ft. Winfield Scott. Repairs to Torpedo Wharf. Owner—U. S. Government. Plans by Constructing Quartermaster, Fort Mason. Contractor—Healy-Tibbitts Const. Co., 64 Pine St.

Plans Being Figured—Bids Close Nov. 7, 11 A. M.
WATER SOFTENER Cost, \$—
SAN FRANCISCO. Letterman General Hospital. Furnish and install water softener at power plant. Owner—U. S. Government. Architect—Constructing Quartermaster, Fort Mason.

MARYSVILLE, Yuba Co., Cal.—Until October 27, 3 P. M., under Circular Proposal No. 31-112, Specifications 2508, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, to construct four cykes on the Yuba River, between 3 and 8 miles easterly and upstream from the town of Marysville. Plans obtainable from above office.

Sub-Contracts Awarded.

ADDITION Cost, \$15,000
SAN FRANCISCO. Letterman General Hospital.

One-story and basement reinforced concrete addition to nurses' dormitory.

Owner—U. S. Government. Architect—Constructing Quartermaster, Fort Mason.

Contractor—Western Hardwood Floor Co., 425 Bosworth St.

Concrete—Ray Concrete Co. 365 Ocean Avenue.

Structural Steel—W. S. Wettenhall Co., 17th and Wisconsin Sts.

Brick Work—A. Nelson, 242 Ocean Avenue.

Lumber—Pope & Talbot, Russ Bldg.

Sub-bids are wanted on plastering and electrical work.

ANACAPA ISLAND, Santa Barbara, Cal.—Following bids received by Superintendent of Lighthouses, Customhouse, for grading, rock excavation, construction of concrete landings, concrete stairways, reinforced concrete retaining walls, roadways, concrete reinforced installation of pipe lines, water tanks, hoisting derricks, etc., in accordance with specifications and drawings:

(a) work complete with concrete rained; (b) work complete with timber rained with asphaltic covering.

Carpenter Eros, Inc., Beverly Hills, (a) \$36,190; (b) \$39,000.

E. T. Lesure, Oakland, (a) \$37,540; (b) \$38,420.

McCure & Chamberlain San Francisco, (a) \$37,777; (b) \$42,000.

Robinson & Roberts, Los Angeles, (a) \$43,250; (b) \$41,150.

Johnson & Hansen, Ventura (a) \$45,600; (b) \$46,612.

Merritt, Chapman & Scott, San Pedro (a) \$56,000; (b) \$54,000.

Bids held under advisement.

HAWTHORNE, Nevada—Until November 4, 10 A. M., bids will be received by Bureau of Supplies and Accounts, Navy Department, Washington, D. C., to furnish concrete mixer and fire place furnishings for Naval Ammunition Depot, Hawthorne, Nevada. Specifications obtainable from Navy Purchasing Office, 100 Harrison St., San Francisco.

PHOENIX, Ariz.—Until Nov. 5, 2 P. M., bids will be received by John B. Brown, superintendent, U. S. Indian Service, 4100 Rhoads Circle, Phoenix, to furnish and deliver:

570 ft. underground, waterproof, air cell type pipe covering, similar to Pyro-Bestos, as follows: 210 ft. 1 1/4-inch double thick; 150 ft. 2-inch double thick and 210 ft. 1 1/4-inch double thick.

942 ft. 1 1/4-inch asbestos, air cell type pipe covering similar to improved Asbestocel sectional covering, 1-inch thick;

600 ft. 2-inch and 18-feet 1 1/4-inch 55% magnesia sectional pipe covering 1-inch thick, complying with Federal Master Specifications No. 212, Symbol HH-M-71.

Bidders to state delivery f.o.b. bidders' shipping point or f.o.b. Phoenix.

WASHINGTON, D. C.—Bids are being received by Bureau of Supplies and Accounts, Navy Department, Washington, D. C., to furnish and deliver miscellaneous supplies and equipment as noted in the following schedules, further information being

available from the Navy Department Office, 100 Harrison St., San Francisco:

Bids Open Nov. 4

Hampton Roads and Mare Island, 480 fire extinguishers, sch. 4301.

Western yards, steel and bronze wire rope, sch. 4318.

Hawthorne, Nev., and Irons, fire sets, wood holders, spark guards, and tender, sch. 4347.

Puget Sound, spark plugs, sch. 4336.

Mare Island, storage batteries and spare parts, sch. 4308.

Western yards, cutting oil, rust preventive castor oil, lard and mineral oil, neatfoot oil, paraffine and petroleum, sch. 4330.

Puget Sound, rubber ferrules, sch. 4330.

HALLS AND SOCIETY BUILDINGS

Contract Awarded.

CLUB Cost, \$50,000
SANTA BARBARA, Santa Barbara Co., Cal. Hope Ranch.

Two-story frame and stucco club with the roof.

Owner—Santa Barbara Hunt Club.
Architect—Reginald D. Johnson, Architects Bldg., Los Angeles.

Contractor—A. J. Roberts, La Cuamhre Road, Santa Barbara.

Will contain clubrooms, locker and shower room, stables, blacksmith shop, etc.; wrought iron, cement and wood floors, steel and wood sash, heating system, tile work, etc.

Contract Awarded.

ADDITION Cont. price, \$4996
MENLO PARK, San Mateo Co., Cal. Woodside Road.

One-story frame addition to help's quarters.

Owner—Menlo County Club, Woodside Road, Menlo Park.

Architect—Bakewell and Weihe, 251 Kearny St., San Francisco.

Contractor—L. N. Pollard, 55 Brewster, Redwood City.

Contract Awarded.

LODGE BLDG. Cost, \$30,000
WILLIAMS, Colusa Co., Cal.

Two-story and basement reinforced concrete lodge building.

Owner—Tuscan Lodge of Williams.

Architect—Starks & Flanders, Forum Bldg., Sacramento.

Contractor—J. O. Brennan, Redding.

Contract Awarded.

ALTERATIONS Cost, \$7500
SAN RAFAEL, Marin Co., Cal. 4th and D Sts.

Alterations to 50 lodge building.

Owner—I. O. O. F.

Architect—N. W. Sexton, deYoung Bldg., San Francisco.

Contractor—Siemer & Kendall, San Anselmo.

Plans To Be Prepared.

MEMORIAL HALL Cost, \$10,000
LINCOLN, Placer Co., Cal.

American Legion Memorial Hall.

Owner—County of Placer.

Architect—Starks & Flanders, Forum Bldg., Sacramento.

Plans Being Figured.

RECREATION BLDG. Cost, Approx. \$50,000
SAN JOSE, Santa Clara Co., Cal. W Santa Clara Street.

One and one-half-story steel frame and brick recreation building.

Owner—C. H. Kamm.

Architect—W. H. Weeks, 111 Sutter St., San Francisco; 1736 Franklin St., Oakland, and Bank of Italy Bldg., San Jose.

Lessee—O. J. Forman, San Jose.

Bids are being received by the San Jose office only.

Completing Plans.

CLUB Cost, \$100,000
LOS ANGELES, Cal. No. 6735 Yucca Street.

Class C reinforced concrete club (pipe organ).

Owner—232 Club.

Architect—Postle & Postle, National Bank of Commerce Bldg., Los Angeles.

SAN FRANCISCO—Lindgren & Swinerton, Inc., 225 Bush St., desire

sub-bids in connection with the construction of a 26-story Class A club building. It is to be constructed on

Post and Mason streets for the Olympic Club from plans prepared by

Architects John Bakewell, Arthur Brown Jr., and John Baur, associated

251 Kearny St. Cost estimated at \$2,000,000. Bids are to be opened

October 28, 12 noon.

Date Of Opening Bids Postponed Until Nov. 18th.

MEMORIAL BLDG. Cost, \$60,000
LIVERMORE, Alameda Co., Cal. SE Fifth and L Streets.

One-story reinforced concrete Veterans' Memorial building (Spanish type).

Owner—County of Alameda.

Architect—H. H. Meyers, Kohl Bldg., San Francisco.

Auditorium will seat approximately 600.

HOSPITALS

MARTINEZ, Contra Costa Co., Cal. Until November 10, bids will be

received by county supervisors to construct addition to laundry at county

hospital; estimated cost \$2,000. Plans on file in office of county clerk.

Contract Awarded.

SANITARIUM Cont. price, \$14,077
MURPHY, Calaveras Co., Cal.

One-story frame and stucco sanitarium.

Owner—Bret Harte Sanitarium, Murphy.

Architect—Jos. Losekann, 1218 West Harding St., Stockton.

Contractor—George Roek, 1724 West Cornell St., Stockton.

Electric heating system.

LOS ANGELES, Cal.—Following bids received by county supervisors in connection with equipment for Acute Unit of Los Angeles County Hospital:

Kitchen Equipment—Dohrmann Hotel Supply Co. (only bidder) 444 South Broadway, Los Angeles, at \$38,466.00.

Steamers and Kettles—Dohrmann Hotel Supply Co. (only bidder), \$42,743.20.

Dishwashing Machines—G. S. Plakesless & Co., 208 S Spring St., Los Angeles, \$10,671.07.

Bids for meat racks and scales were rejected and new bids will be asked.

OAKLAND, Cal.—Construction of a \$250,000 home for aged members of the order was discussed at the 57th Annual Convention of the California Chapter, Order of Eastern Star, recently held in Oakland. Of the total amount required to finance the structure, \$200,000 is already available, it is announced by Walter Wadsworth Bradley, grand worthy patron of the organization.

PLEASANTON, Alameda Co., Cal.—Plans of Community Hospital of Pleasanton (Dr. E. M. Eastman, in charge) to erect a \$40,000 hospital in Pleasanton have been abandoned. The doctor reports the purchase of a num-

ber of local cottages which will be remodeled for hospital purposes at a cost of \$3,000, exclusive of the equipment. The contract for construction will be let to a local contractor.

LOS ANGELES, Cal.—Following low bids received by county supervisors in connection with new Acute Unit of the County General Hospital:

Heavy Duty Ranges—Dohrmann Hotel Supply Co., 444 S Broadway, Los Angeles, Unit 3, \$23,119.35; Unit 5, \$2,112.05. Total \$25,231.

Light Duty Ranges—Dohrmann Hotel Supply Co., Unit 3, \$6,089.99; Unit 5, \$777.80. Total \$6,867.79.

Electric Closets—Barker Bros., 7th and Figueroa Sts., Los Angeles, \$25,426.97. Unit bid follows: (2a) Unit No. 2, \$4887.27; (2b) Unit No. 3, \$12,041. (2c) Unit No. 4, \$5661.45; (3d) Unit No. 5, \$3837.25; (2e) total, \$26,426.97.

Lighting Fixtures—Newbery Elec. Corp., 726 S Olive St., Los Angeles, \$159.875.

Shades—Sunset Shade Co., 1612 N Vermont Ave., Los Angeles, \$12,595.35. Unit bid follows: (2a) Unit No. 2, \$2439.90; (2b) Unit No. 3, \$4334.36; (2c) Unit No. 4, \$3690.42; (2d) Unit No. 5, \$1939.67; (2e) total, \$12,595.35.

Sheet Metals—Dohrmann Hotel Supply Co., 444 S Broadway, Los Angeles, \$191,801. Unit bid follows: Unit No. 3, \$173,824.70; Unit No. 5, \$17,976.30. Total \$191,801.

Preparing Plans.

ADDITION Cost, \$500,000
LOS ANGELES, Cal. Fifteenth and Hope Streets.

Ten-story and basement reinforced concrete, pressed brick and cast stone exterior addition to hospital

Owner—California Lutheran Hospital Assn.

Architect—Walker & Elsen, Western Pacific Bldg., Los Angeles.

Construction will start next spring.

Preliminary Plans Being Revised.

HEALTH CENTER Cost, \$800,000
SAN FRANCISCO, Polk and Grove Streets.

Four-story and basement reinforced concrete class A health center, emergency hospital and offices (granite facing).

Owner—City and County of San Francisco.

Architect—S. Heiman, 57 Post Street.

The structure will be financed thru the \$3,000,000 bond issue voted for health buildings throughout the city.

The present 2-story Emergency Hospital will be used in the construction of the new building and additional property will be purchased for the new structure.

Contract Awarded.

HOME Cont. Price, \$34,100
SAN LUIS OBISPO, San Luis Obispo Co., Cal. Johnson Avenue.

Brick Detention Home (frontage 132 ft. with central section forward, 28 ft. with rear wing 36x36 ft.; tile on sloping roofs; asbestos shingles on flat roofs) and one-story frame health cottage (ten rooms, separate dining room).

Owner—County of San Luis Obispo.

Architect—Wm. Mosser, Menadnock Bldg., San Francisco.

Contractor—H. H. Larsen, 64 South Park, San Francisco.

SAN FRANCISCO—Until November 3, 3 P. M., under Proposal No. 650, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish and install window shades in Ward Building "B" at Laguna Honda Home. Specifications and further information obtainable from above.

Plans Being Completed.

CLINIC Cost, \$100,000
 SANTA BARBARA, Santa Barbara Co., Cal. Third Avenue.
 Two-story and basement Class A reinforced concrete clinic with tile roof (42x150 feet) (70 rooms).
 Owner—Dr. W. D. Sanmsum.
 Architect—Carleton M. Winslow, Architects Bldg., Los Angeles.
 Bids will be taken in one week.

Bids Opened.

SANITARIUM Cost, \$15,000
 ONE-story frame and stucco sanitarium.
 Owner—Bret Harte Sanitarium, Murphy.
 Architect—Joseph Losekann, 1218 W. Harding St., Stockton.

Following is a complete list of bids:
 Geo. Rock, 1724 W. Cornell St., Stockton.....\$14,120
 John Hackman, Stockton.....14,800
 R. E. Vickroy, Stockton.....15,172
 C. H. Dodd, Stockton.....15,350
 T. E. Williamson, Stockton.....15,397
 F. Johnson, Stockton.....15,500
 L. Uebels, Ripon.....15,895
 Frank Guyton, Stockton.....15,995
 Samuel Eyre, Stockton.....16,109
 L. Toothacre, Stockton.....16,126
 John Cavanaugh, Stockton.....16,153
 Eckert & Stedmillner, Stockton 16,244
 J. Leighton, Stockton.....16,398
 J. F. Shepherd, Stockton.....17,434
 Four low bids held under advisement until today.

HOTELS

Preliminary Plans Prepared.

ADDITION Cost, \$—
 OAKLAND, Alameda Co., Cal. Madison St. and Lakeside Drive.
 Fourteen-story Class A addition to hotel (155 ft. frontage).
 Owner—Lake Merritt Hotel (A. Wallace Smith, Robert Smith and Wallace H. Miller in charge), Hunter-Dulin Bldg., San Francisco.
 Architect—Withheld temporarily.

Preparing Revised Plans.

HOTEL Cost, \$—
 PALM SPRINGS, Riverside Co., Cal. Group of hotel buildings.
 Owner—Smoke Tree Forest Co.
 Architect—Garrett Van Pelt Jr., 51 South Euclid Ave., Los Angeles.
 Group will contain building that will have dining rooms, kitchen, lobby and store room, cottages to accommodate about twenty guests, garage and servants' quarters. Construction will be frame, concrete block and adobe, shingle roofing, cement and plank floors, gas or electric heating, etc.

To Be Done By Day's Work.

ROOMING HOUSE Cost, \$30,000
 SAN FRANCISCO. 823 Grant Ave.
 Alterations to rooming house.
 Owner—Lim Shee Dick, care F. R. Siegrist, 604 Mission St.
 Architect—Chas. E. J. Rogers, Phelan Bldg.

DEL MONTE, Monterey Co., Cal.—Old Del Monte Bathing Pavilion on the beach, one-quarter of a mile from the hotel proper, was destroyed by fire Oct. 18. The loss is estimated at \$50,000.

Contract Awarded.

ROOMING HOUSE Cost, \$25,000
 SAN FRANCISCO. 823 Grant Ave.
 Alterations to rooming house.
 Owner—Lim Shee Dick, care F. R. Siegrist, 604 Mission St.
 Architect—Chas. E. J. Rogers, Phelan Building.
 Contractor—Jensen & Pedersen, 3443 Adeline St., Oakland.

Plans Being Figured.

HOTEL Cost, \$300,000
 CLOVIS, New Mexico.

Ten-story and basement steel, brick and concrete hotel.
 Owner—National Hotels Corp., Galveston, Texas.
 Architect—Wyatt C. Hedrick, Inc., El Paso, Texas.

Preparing Plans.

HOTEL Cost, \$—
 SANTA MONICA, Los Angeles Co., Cal. Ocean Avenue.
 Eight-story and basement Class A reinforced concrete hotel (60x100 feet).
 Owner—Wildermere Hotels Corp., Ltd.
 Architect—Not Given.
 Contractor—Burnett Shapiro Constr. Co., Signal Oil Bldg., Los Angeles.

Construction Postponed Indefinitely.

HOTEL Cost, \$150,000
 EMERYVILLE, Alameda Co., Cal. San Pablo Ave. and Park St.
 Three-story steel frame and concrete hotel and stores (100 rooms).
 Owner—Chook Poy Non, Emeryville.
 Architect—W. E. Schirmer, 700 21st St., Oakland.
 Contractor—Chas. Heyer, Mills Bldg., San Francisco.

SACRAMENTO, Cal.—See theatres, this issue.

Bids To Be Taken In One Week.

SERVICE BLDG. Cost, \$100,000
 SAN JOSE, Santa Clara Co., Cal.
 Two-story reinforced concrete service building.

Owner—County of Santa Clara.
 Architect—Binder & Curtis, 35 West San Carlos St., San Jose.

POWER PLANTS

OAKLAND, Alameda Co., Calif.—Electrical Communication Co., 121 2nd St., San Francisco, at \$11,533 submitted lowest bid to Oakland City Council to furnish and install combination automatic and manual telephone switchboard for Fire Alarm Center Station.

The only other bid was submitted by the Sierra Equipment Corp., at \$11,850.

Bids held under advisement.

LOS ANGELES, Calif.—The Metropolitan Water District of Southern California has applied to the Federal Power Commission for permit to construct a hydro-electric plant on the Colorado river one-half mile from the mouth of the Williams River on the California-Arizona line. The plant proposed will have 136,000-hp. capacity.

SAN FRANCISCO—Butte Electrical & Mfg. Co., 556 Folsom St., San Francisco, at \$72,329 submitted lowest bid to Regents of the University of California, Berkeley, to install distribution system for electricity, air and steam on the San Francisco Campus of the University of California.

Following is a complete list of the bids received:

Butte Electrical & Mfg. Co.\$72,329
 Alta Electric Co.74,136
 H. S. Tittle77,852
 C. C. Moore & Co.79,955
 Bids held under advisement.

LOS ANGELES, Calif.—Until 11 A. M., Oct. 30, bids will be received by city purchasing agent, Thomas Oughton, for lead covered cable, under Spec. 2205, as follows:

- (1) 14,000 ft. 500,000 C. M., 5000-volt, lead covered cable;
 - (2) 5000 ft. No. 2/0 AWG, 5000-volt, lead covered cable;
 - (3) 15,000 ft. No. 6 AWG, 500-volt do;
 - (4) 1500 ft. 1,500,000 C.M., 600-volt do;
 - (5) 12,000 ft. 1,000,000 C. M., 600-volt do;
 - (6) 20,000 ft. 500,000 C. M. 600-volt do;
 - (7) 30,000 ft. No. 4/0 AWG, 600-volt do
 - (8) 30,000 ft. No. 1/0 AWG, 600-volt do
 - (9) 25,000 ft. No. 4 AWG 600-volt do;
 - (10) 36,000 ft. No. 6 AWG, 600-volt do.
- F. O. B. cars Davies Extension Spur S. P. delivery or f.o.b. trucks 257 E 3rd St.

SAN FRANCISCO—C. C. Moore & Co., Sheldon Bldg., San Francisco, at \$107,046 submitted lowest bid to Regents of the University of California for installation of mechanical equipment in the central heating plant on the San Francisco Campus, University of California

The only other bid was submitted by Herman Lawson at \$112,000. Bids held under advisement.

UKIAH, Mendocino Co., Cal.—Until October 28, 8 P. M., new bids will be received from revised plans by Fred L. Bosworth, city clerk, to erect electric sub-station. Certified check 10% payable to city required with bid. Plans on file in office of clerk.

Specifications Being Written.

POWER HOUSE Cost, \$40,000
 SAN FRANCISCO, Third Avenue and Parnassus Street.
 One-story steel frame and concrete power house.
 Owner—University of California.
 Architect—Wm. C. Hays, Crocker 1st National Bank Bldg.
 Bids will be advertised for shortly.

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OAKLAND, Calif.—Electrical Communication Co., 121 2nd St., San Francisco, at \$11,533 awarded contract by city council to furnish and install combination automobile and manual telephone switchboard for central fire alarm bureau.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

Preparing Sketches.
OFFICE BLDG. Cost, \$1,000,000
SAN DIEGO, San Diego Co., Cal. San Diego Civic Center.
Class A county and city public office building.

Owner—County of San Diego.
Architect—T. C. Kistner & Co., Architects Bldg., Los Angeles, and Spreckels Bldg., San Diego.

A measure on the ballot at November 4 election would provide for the erection of structure.

Plans Being Figured—Bids Close November 18.
COURTHOUSE, ETC. Cost, 300,000
BISBEE, Arizona.

Five-story reinforced concrete and steel courthouse and jail with copper roof.

Owner—County of Cochise.
Architect — Roy Place, 79 N. Stone Ave., Tucson, Arizona.

TUCSON, Ariz.—C. E. Pequinot, city manager, has been authorized by the city council to advertise for bids for six jail cells.

WILLOWS, Glenn Co., Cal.—J. Hassig, Willows, at \$200 awarded contract by county supervisors to paint courthouse roof. E. P. Chrissinger, only other bidder, at \$498.

SAN FRANCISCO—H. M. Schick Products Co., 135 Tehama St., at \$1000, under Proposal No. 625, awarded contract by city purchasing agent to furnish and install ten 48-drawer steel document cases in office of city auditor; installation to be made within 60 days.

Park Commission To Clear Site Shortly
ADDITION Cost, \$250,000
SAN FRANCISCO. Golden Gate Park Addition to present Academy Building (steel and brick construction).

Owner—California Academy of Science, Premises.
Architect—Lewis P. Hobart, Crocker Bldg., San Francisco.

It is planned to break ground about Nov. 15, according to information obtained from the California Academy of Science, Golden Gate Park.

SACRAMENTO, Cal.—State Department of Public Works, Division of Architecture, rejects bids received Dec. 10, 1929 for painting the Capitol Building. The low bid was submitted by Heinemann Decorating Co., Los Angeles, at \$13,100. The proposed improvement has been postponed indefinitely.

Contract Awarded.
EQUIPMENT Cost, \$—
BERKELEY, Alameda Co., Cal. SNV Kirtledge St. and Shattuck Ave.
Furnish and install furnishings and technical equipment for main library.

Owner—City of Berkeley, Florence E. Turner, city clerk.
Architect—Jas. W. Plachek, Mercantile Bank Bldg., Berkeley.
R. Brandelin & Co., 2141 Bryant St., San Francisco, awarded contract at \$20,584.

WATSONVILLE, Santa Cruz Co., Cal.—A. B. C. Painting & Spray Co.,

212 Tara St., San Francisco, at \$187 awarded contract by city council for painting civic auditorium.

RESIDENCE

Sub-Bids Being Taken.
RESIDENCES Cost, \$6000 to \$8000
SAN MATEO, San Mateo Co., Calif. Casa Mateo.

Seven one-story and basement frame and stucco residences (five rooms each).

Owner—Castle Bldg. Co., 830 Market St., San Francisco.

Plans by D. E. Jaekle, Call Bldg., San Francisco.

Contractor—G. W. Morris, 95 Pinehurst St., San Francisco.
Part tile and composition roof, gas heating system, colored tile baths and kitchens.

Sub-Bids Being Taken.
RESIDENCE Cost, \$12,000
STOCKTON, San Joaquin Co., Calif. Oxford Manor.

Two-story brick veneer residence.
Owner—State Realty Co., Bank of Italy Bldg., Stockton.

Architect—Jos. Losekann, 1218 W. Harding St., Stockton.

Contractor—Wm. Peenstra, 2261 Kensington Way, Stockton.

Pilgrim shingle room, hot air heating system, gas furnace, etc.

Plans Being Prepared.
RESIDENCE Cost, \$10,500
SAN FRANCISCO. SW Manor Drive and Kenwood.

One-story and basement frame and stucco residence (6 rooms: tile and composition roof, gas heating system).

Owner and Builder—G. W. Morris, 45 Pinehurst St.

Plans by D. E. Jaekle, Call Bldg.

Plans Being Re-Figured.
RESIDENCE Cost, \$15,000
SAN JOSE, Santa Clara Co., Cal.

Two-story and basement frame and stucco residence.

Owner—T. W. MacQuarrie, 309 S. Eighth St., San Jose.

Architect—Binder & Curtis, 35 W. San Carlos St., San Jose.

Plans are being re-figured by The Minton Co., Mt. View, and Chas. Thomas, San Jose.

Bids To Be Taken In One Week.
RESIDENCE Cost, \$12,500
OAKLAND, Alameda Co., Cal. Lake-shore Highlands.

Two-story and basement frame and stucco residence (11 rooms and 3 baths).

Owner—A. R. Lapham, 947 Hillcroft Circle, Oakland.

Plans by Irwin Johnson, 2215 Seventh Ave., Oakland

Plans Completed.
RESIDENCE Cost, \$—
LOS ANGELES, Los Angeles Co.
Two-story and basement frame and stucco Spanish type residence (8 rooms).

Owner—E. W. Cadwallader.
Architect—Harold Stoner, 220 Third Ave., San Mateo.
Owner will take estimates next week

Plans Being Figured.
RESIDENCES Cost, \$25,000 each
SAN FRANCISCO. Seaciff near 26th Avenue.

Two two-story and basement frame and stucco residences.

Owner—Allen & Co., 168 Sutter St., San Francisco.

Architect — Hyman & Appleton, 68 Post St., San Francisco.

Sub-Contracts Awarded
RESIDENCE Cost, \$12,000
SONORA, Tuolumne Co., Cal.

Two-story and basement frame and stucco residence (7 rooms, 2 baths)

Owner—Andrew M. Haynes, Sonora.

Architect—G. N. Hilburn, Elks Bldg., Modesto.

Contractor—Ecker & Stedmillier, 1653 S. San Joaquin St., Stockton.

Plumbing, Heating and Sheet Metal—R. D. Leonard, Sonora.

Electrical Work—Home Wiring Co., 141 S. California St., Stockton.

Roofing—Stockton Roofing Co., 736 N. Hunter St., Stockton.

Plastering—R. S. Hibbert, Stockton.

Painting—J. F. Ecker, 17 W. Poplar St., Stockton.

Tile Work—Stockton Tile Co., 523 E. Channel St., Stockton.

Sub-bids are wanted on hardwood floors, cement work, mill work, and ornamental iron.

Contract Awarded.
GUILD HOUSE Cost, \$6500
SAN FRANCISCO. Ocean Ave. near San Fernando St.

One-story frame and stucco guild house.

Owner — St. Francis Community Church.

Architect—Coxhead & Coxhead, Hearst Bldg., San Francisco.

Contractor—Henry Papenhausen, 595 Victoria St., San Francisco.

Contract Awarded
RESIDENCE Cost, \$5000
OAKLAND, Alameda Co., Cal. 21st Street near Twenty-second Ave.

One and one-half-story frame and stucco residence.

Owner—Mrs. Margaret McNaughton.

Architect—Guy L. Brown, American Bank Bldg., Oakland.

Contractor—Irwin & Hopkins, Frem.

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Segregated Bids Being Taken.
RESIDENCE Cost, \$12,000
VALLEJO, Solano Co., Cal.
Two-story and basement frame and
stucco residence (8 rooms, 2 baths)
Owner—Dr. Burton Jones, 327 Georgia
St., Vallejo.
Plans by L. Mazurette, 576 Fifth St.,
Oakland.

Plans Being Completed.
RESIDENCE Cost, \$45,000
BERKELEY, Alameda Co., Cal. North
Cragmont District.
Two-story and basement frame and
stucco residence (13 rooms).
Owner—Mrs. Nash, % Weldon Nichols
Attorney, Mercantile Trust Bldg.,
Berkeley.
Architect—Mark Daniels, Riviera,
Santa Monica.

Tile and composition roofing, hard-
wood floors, hardwood and pine trim,
automatic storage water heater, gas
unit heating system, wrought iron,
electric refrigeration, five tiled baths,
tile drainboards, garage. Bids on
general contract will be taken next
week. The following contractors will
submit figures: John P. Brennan,
2820 Regent St., Berkeley, and L.
Weaver of Los Angeles.

Plans Bein Figured.
RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Cal.
Two-story and basement frame resi-
dence with tile roof.
Owner—Rev. H. T. Dobbins, 600 Cov-
entry St., Berkeley.
Architect—James Mitchell, 369 Pine
St., San Francisco.

Plastering Bids Wanted.
RESIDENCE Cost, \$7500
BERKELEY, Alameda Co., Cal. No.
2300 Corona Court.
Two-story frame and stucco residence
(6 rooms).
Owner—T. B. Heller, 1617 Visalia Ave.,
Berkeley.

Plans by J. M. Walker.
Contractor—J. M. Walker, 1709 Grove
St., Berkeley.
As previously reported, brick work
awarded to A. B. McMurtry, 6326
Broadway, Oakland; sheet metal to
M. C. Henry, 1182 53rd St., Oakland;
plumbing to Golden Gate Plumbing
Co., 5904 San Pablo Ave., Piedmont.

Completing Plans.
RESIDENCE Cost, \$12,000
SAN MATEO, San Mateo Co., Cal.
Baywood Park.
Two-story and basement frame and
stucco residence (7 rooms and 3
baths).
Owner—Withheld.
Architect—Grimes & Schoening, Bal-
ovich Bldg., San Mateo.
Bids will be taken about Oct. 24.

Plans Being Figured.
RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Cal. Mont-
rose Road.
Two-story and basement brick veneer
frame and stucco residence (8
rooms and 3 baths).
Owner—Neville Lee, 1060 Cragmont
Ave., Berkeley.
Architect—E. L. Snyder, 2101 Shat-
tuck Ave., Berkeley.

Contract Awarded.
RESIDENCE Cost, \$10,000
SAN LEANDRO, Alameda Co., Cal.
Oaks Boulevard.
Two-story and basement frame and
stucco residence (19 rooms and 3
baths).
Owner—Dr. A. W. Henry, 1326 E-14th
St., Oakland.
Plans by Irwin M. Johnson, 2215 7th
Ave., Oakland.

Contractor—Derry & Derry, San Le-
andro.
Will have terra cotta tile roof, oak
floors, electric refrigeration, etc.

PIEDMONT, Alameda Co., Cal.—F.
J. Westlund, 354 Hobart St., Oakland,
desires sub-bids in connection with
the construction of a two-story and
basement frame and stucco residence
Piedmont, for M. E. Dougery, 370
Grand Ave., Oakland. It will contain
8 rooms and 3 baths, and will cost
approximately \$15,000. Plans prepared
by Elaine & Olsen, 1755 Broadway,
Oakland. General figures are to be
opened Oct. 25, 1:30 P. M.

SCHOOLS

BERKELEY, Alameda Co., Calif.—
C. J. Hillard, Inc., 19th and Minnesota
Sts., San Francisco, at \$7093 awarded
contract by Regents of the Univer-
sity of California for furnishing and
installing book stacks in the Life
Science Building, Berkeley, for the
University of California.

SACRAMENTO, Cal.—Until Nov. 2,
5 P. M., bids will be received by Chas.
C. Hughes, secretary, Board of Edu-
cation, Administration Bldg., 21st and
L Sts., to furnish and install voca-
tional training equipment. Certified
check 10% payable to Board of Edu-
cation required with bid. Specifica-
tions obtainable from Assistant Busi-
ness Manager of the Board at the
above address.

BERKELEY, Alameda Co., Calif.—
E. H. Sheldon & Co., 666 Mission St.,
San Francisco, at \$884 awarded con-
tract by the University of California
for furnishing and installing furniture
and equipment in Life Science Bldg.,
Berkeley, for the University of Califor-
nia.

Plans Complete.
ALTERATIONS Cost, \$23,000
RICHMOND, Contra Costa Co., Cal.
Woodrow Wilson School.
Alterations and additions to school
(add six classrooms).
Owner—Richmond School District.
Architect—James Narbett, 474 31st
St., Richmond.

Final plans will be approved in one
week and bids will be called for.

Commissioned To Prepare Plans.
ALTERATIONS Cost, \$100,000
PASADENA, Los Angeles Co., Cal.
Alterations and additions to school
(7 classrooms, auditorium, etc.)
Owner—Pasadena Board of Education.
Architect—Bonnett & Haskell, First
Trust Bldg., Pasadena

Contracts Awarded.
WALL Cost approx. \$1800
COLMA, San Mateo Co., Cal. School
Grounds.
Retaining wall and fencing.
Owner—Jefferson School Dist., Colma.
Architect—N. B. Coulter, 46 Kearny
St., San Francisco.
Concrete Walls—John Stura, Colma,
\$1,769.

Fencing—B. Milazzo, \$1,144.
Following is a complete list of bids:
(1) concrete wall (2) fencing.
John Stura (1) \$1,769; (2) \$1,207.
B. Milazzo, Colma (1) \$1,856; (2) \$1-
144.
Fazio & Lindgren Co. (1) \$2,853; (2)
\$1,207.

SAN FRANCISCO—Until November
3, 3 P. M., under Proposal No. 654,
bids will be received by Leonard S.
Leary, city purchasing agent, 570
City Hall, to furnish basketball back-
stops for School Department. Specifi-
cations obtainable from above.

Plans Being Completed.
GYMNASIUM, ETC. Cost, \$—
MONTEREY, Monterey Co., Cal.
One-story reinforced concrete acad-
emic building and one-story re-
inforced concrete gymnasium with
tile roof.
Owner—Monterey Union High School
District.
Architect—Swartz & Ryland, Spazier
Bldg., Monterey.
Plans will be approved within two
or three weeks.

Bids Opened.
SCHOOL Cost, \$150,000
ANTIOCH, Contra Costa Co., Cal. (15-
acre site), D Street.
Two-story brick high school.
Owner—Antioch Live Oak High School
District.

Architect—Davis-Pearce Co., Grant
and Weber Sts., Stockton.

Following is a complete list of bids
received:

Mathews Constr. Co., Forum	Bldg., Sacramento.....	\$111,500
C. J. Hopkinson, Sacramento.....	115,213	
Wallace Snelgrove, Martinez.....	116,917	
F. J. Maurer, Oakland.....	117,126	
J. J. Grodem & Co., Alameda.....	117,985	
Azevedo & Sarmiento, Sacto.....	119,000	
H. H. Henning, Sacramento.....	120,800	
Cari Overna, Richmond.....	121,502	
R. W. Littlefield, Oakland.....	125,400	
The Minton Co., Mt. View.....	125,547	
C. A. Bruce & Son, Pleasanton.....	125,800	
J. F. Shepherd, Stockton.....	125,923	
David Nordstrom, Oakland.....	126,620	
F. H. Cress, Oakland.....	127,200	
Spivock & Spivock, S. F.....	127,300	
G. P. W. Jensen, S. F.....	127,900	
Mahony Bros., San Francisco	130,300	

There were thirty-seven alternates
submitted, which may be obtained
from this office today, by those in-
terested

Bids held under advisement.

RISEEE, Ariz.—Until November 7,
bids will be received by Lowell School
District for the erection of the new
school building in Lowell. Separate
bids will be taken on the general
work, painting and decorating, elec-
tric wiring and the heating, ventilat-
ing and plumbing. Plans may be ob-
tained from Architects Lescher &
Mahoney, First National Bank of
Arizona Bldg., Phoenix. Cost, \$200,-
000.

SANTA BARBARA, Cal.—W. L.
Snook, 21 E. De la Guerra St., Santa
Barbara, submitted low general con-
tract bid of \$44,021 to Santa Barbara
Board of Education and will probably
be awarded contract for concrete
kindergarten on Harding School site
in Santa Barbara. Ott Hardware Co.,
Santa Barbara, low on plumbing and
heating at \$4960. Soule, Murphy &
Hastings, architects, 116 E. Solá St.,
Santa Barbara. Other general con-
tract bids were: Johnson & Han-
sen, \$49,967; J. T. Sullivan, \$50,642;
J. J. Munneman, \$50,885; Cicero &
Adrian Constr. Co., \$50,900; Wheaton
& Wood, \$52,980; W. L. Willis, \$53,-
936; Grant L. Miner Jr., \$53,946; C.
M. Urton, \$53,970; K. P. Lowell &
Co., \$54,092; Santa Barbara Constr.
Co., \$55,500.

Construction Postponed Indefinitely.
SCHOOL Cost, \$15,000
EMERYVILLE, Alameda Co., Cal. 61st
St. and Doyle Ave.
One-story brick elementary school (4
rooms).

Owner—Emeryville School District.
Plans by S. Arnold, High School, Em-
eryville.

On previous call for bids lowest bid
was submitted by Gaubert Frost, 4735
Brockdale Ave., Oakland, at \$21,300.

Plans Being Figured—Bids Close Nov. 24, 8 P. M.

SCHOOL Cost, \$70,000
CALISTOGA, Napa Co., Cal.
 One-story class C brick school (eight classrooms, assembly room and shop).

Owner—California Grammar School District.

Architect—Davis-Pearce Company, Inc., Builders' Bldg., Stockton.

Tile roof, oil burning system, etc. Bids are to be opened at the Masonic Hall at Calistoga. Bids will be received for a general contract with separate bids for electric, plumbing and heating.

SACRAMENTO, Cal. — Herberts-Moore Machinery Co., at \$550 awarded contract by Board of Education to furnish lathe for school department and Yates American Machinery Co. at \$570 for electrically operated hand joiner.

WILLOW GLEN, Santa Clara Co., Cal.—Steps are being taken to form a high school district for Willow Glen and environs. After formation, it is proposed to vote bonds to finance erection of a new high school plant.

LIVINGSTON, Merced Co., Cal.—Livingston Chamber of Commerce will confer with trustees of the Merced Union High School District regarding needed improvements and enlarged school facilities in connection with Livingston High School plant.

HANFORD, Kings Co., Cal.—Hanford Furniture Co. awarded contract by Hanford High School District to furnish and place Battleship linoleum on stage in school auditorium.

Plans Being Figured—Bids Close November 6, 8 P. M.

ADDITION Cost, Approx. \$10,000
MOSS LANDING, Monterey Co., Cal.
 One-story frame addition to present school (2 classrooms).

Owner—Moss Landing School District
 Architect — W. H. Weeks, Hunter-Dulin Bldg., San Francisco; 1736 Franklin St., Oakland, and Bank of Italy Bldg., San Jose.

Certified check 5% payable to Mrs. M. Capurro, clerk, required with bid. Plans obtainable from San Francisco office of the architect on deposit of \$20, returnable.

Bids Opened.

ADDITIONS, ETC. Cost, \$ —
MONTEREY, Monterey Co., Cal.

Additions, alterations, and renovations to present shop bldg.; construct 3 tennis courts; construct girls' athletic field; grade, drain and change contours and grades adjacent thereto at high school.

Owner—Monterey Union High School District.

Architect—Swartz & Ryland, 206 Spaulier Bldg., Monterey.

Complete list of bids available from this office today at 2 P. M.

FLAGSTAFF, Ariz. — Dr. Grady Gammage, president of Arizona State Teachers' College, announces that an effort will be made to secure an appropriation of \$150,000 this year for a new girls' dormitory. Other buildings, including a training school to cost \$150,000, are to be built during the next six years.

Plans Being Completed.

SCHOOL Cost, \$15,000
JAMESTOWN, Tuolumne Co., Cal.

One-story class C concrete grammar school (3 classrooms).

Architect—Davis-Pearce Co., Grant & Weber Sts., Stockton.

Bids will be taken in about a week or ten days.

Plans Being Figured—Bids Close November 10.

AUDITORIUM Cost, \$125,000
PASADENA, Los Angeles Co., Cal.
 John Muir Technical High School Site.

One-story and basement reinforced concrete high school auditorium (to seat 1200) (120x180 feet).

Owner—Pasadena Board of Education
 Architect—Bennett & Haskell, First Trust Bldg., Pasadena.

Contract Awarded.

ADDITIONS, ETC. Cost, \$ —
MONTEREY, Monterey Co., Cal.

Additions, alterations and renovations to present shop building; construct 3 tennis courts; construct girls' athletic field; grade, drain and change contours and grades adjacent thereto at high school.

Owner—Monterey Union High School District.

Architect—Swartz & Ryland, Spaulier Bldg., Monterey.

Excavation — S. Ruthven, Railroad Ave., Monterey, \$2695.60 (alt. 23c for 6600 additional yards).

General Work—M. J. Murphy, Carmel, \$15,319.

Tennis Courts—S. Ruthven, Monterey, \$443.

Girls' Athletic Field—S. Ruthven, Monterey, \$2648.

Metal Fencing For Tennis Courts—Michel & Pfeffer Iron Works, Harrison and Tenth Sts., San Francisco, \$2810.

Tennis Court Flooring—Malott & Peterson, 3221 20th St., San Francisco, \$5073.

Venetian Blinds—H. S. Crocker Co., 555 Market St., San Francisco, \$310.

Corrugated Culverts—M. J. Murphy, Carmel, \$2321.

Painting—Herman Krudwig, Monterey, \$2653.

Ornamental Tile—C. L. Frost Roofing & Tile Co., Monterey, \$513.

Plumbing—Barton Oil-O-Matic, Monterey, \$2770.

Blackboards — C. F. Weber Co., 650 Second St., San Francisco, \$494.

Block Flooring—Redwood Block Flooring Co., Monterey, \$1414.

Heating—Phillips Plumbing Co., Monterey, \$2137.

Roofing—C. L. Frost, Monterey, \$1166.

Sheet Metal—Phillips Plumbing Co., Monterey, \$660.

Plastering—Jacobsen Neilsen, Pacific Grove, \$3750.

Glass and Glazing — T. H. French, Monterey, \$298.

Wood Rolling Doors—Chas Christensen, 557 Market St., S. F., \$471.

Electrical Work—Tice Electrical Co., Monterey, \$2755.

Bids on plumbing for tennis courts and for finish hardware have been rejected.

PASADENA, Los Angeles Co., Cal.

Administrative officers and students of Pasadena Junior College have requested Pasadena Board of Education to start action to secure new science building, student union building, library and music building. Matter was favorably received by Board but no action taken.

Plans Being Prepared.

GYMNASIUM Cost, \$50,000
KENTFIELD, Marin Co., Cal.

Gymnasium (wood frame, roof trusses over gymnasium proper carried on steel columns) planting lawns and shrubbery, etc., at college grounds.

Owner—Marin Junior College Dist.

Architect — A. A. Cantin, 544 Market St., San Francisco.

More information will be given within one week.

Bids Rejected—Plans Being Revised.

GYMNASIUM Cost, \$ —
SAN JOSE, Santa Clara Co., Calif.
 State Teachers' College Gymnasium. Reinforced concrete men's gymnasium. Owner—State of California.

Architect—State Department of Public Works, Division of Architecture, Public Works Bldg., Sacramento.

New bids will be called for upon completion of revised plans. On previous call for bids the following were the low bidders:

General Work

H.L. Petersen, 731 Treat Ave., San Francisco, \$114,826

Plumbing, Heating and Ventilating Hatley & Hatley, 1719 10th St., Sacramento, \$26,488

Electrical Work

Gilbert Bros., 286 W Santa Clara St., San Jose, \$7,403

Mechanical Work, Complete Latourrette-Fical Co., 907 Front St., Sacramento, \$35,772

Complete list of bids published Aug. 20th.

VENTURA, Cal.—Architects John C. Austin and Frederick M. Ashley, 608 Chamber of Commerce Bldg., Los Angeles, are taking bids for furnishing and installing steel lockers and cabinets at the Big Sisters' Hospital at Ventura. Bids are to be in before noon, October 25.

SANTA MARIA, Santa Barbara Co., Cal.—Architect Louis N. Crawford, 8 Gibson-Drexler Bldg., Santa Maria, has been engaged by the Santa Maria School Board to prepare preliminary plans for additional elementary school buildings to be erected in Santa Maria. An election is to be held on November 12 at which time it is proposed to vote bonds in the sum of \$160,000 for the work.

Plans Being Figured.

ADDITION Cost, \$ —
COSTA MESA, Orange Co., Cal.

Six classroom addition to grammar school.

Owner—Costa Mesa Elementary School District.

Architect—Marsh, Smith & Powell, Architects Bldg., Los Angeles.

Plans Being Figured—Bids Close Nov. 3, 8 P. M.

HEATING SYSTEM Cost, \$ —
ROSEVILLE, Placer Co., Cal.

Heating System.

Owner—Roseville Union High School District, E. C. Bedell, clerk.

Engineer—Albert A. Coddington, 222 Kearny St., San Francisco.

Bids are wanted for:

(1) Auxiliary boiler to be installed in basement of school and to be connected with present heating system.

(2) Extension of present heating plant from main school to the Science and the Shop Building.

Certified check 10% required with bid. Plans on file in office of clerk and obtainable from engineer.

LA MESA, Arizona.—Until 7:30 P. M., November 3, bids will be received by the Grossmont Union High School District for furnishing and installing approximately 270 steel gymnasium lockers. The lockers are to be of the six-unit type, with the individual lockers 10x12x20 inches in size. Mrs. Leonie F. Gilles, Clerk

BANKS, STORES & OFFICES

SOQUEL, Santa Cruz Co., Cal.—Wm. Vesery, 75 2nd St. (Beach Hdl), Santa Cruz, awarded contract by Frank Kasseroller of Boulder Creek, to erect two-story frame and stucco (3) stores and apartment building, Spanish type, in Main street.

Owner Taking Bids.

BANK Cost, \$—
OAKLAND, Alameda Co., Cal. NE
 Fourteenth and Fruitvale Aves.
 One-story concrete bank (100x90 ft).
 Owner—Floyd Steel, 57 Sutter St.,
 San Francisco.
 Architect—George de Colmesnil, Ne-
 vada Bank Bldg., San Francisco.
 Lessee—Bank of Italy.

A portion of the building on the
 property is to be wrecked.

Preparing Working Drawings.

OFFICES Cost, \$—
LOS ANGELES, Cal. Fifth St. bet.
 Hill and Olive Sts.
 Three-story and basement Class A
 concrete offices (41x125 feet).

Owner—State Mutual Bldg. & Loan
 Assn., 722 S. Spring St., Los An-
 geles.

Architect—William Richards, Archi-
 tects Bldg., Los Angeles.

Completing Plans.

MARKET Cost, \$120,000
LOS ANGELES, Cal. NE Beverly
 Blvd. and Kingsley Drive.
 One-story and basement reinforced
 concrete market and garage (176x
 143 feet).

Owner—Gore Bros.
 Architect—Balch & Stanbery, Film
 Exchange Bldg., Los Angeles.
 Bids will be taken in one week.

Sub-Contracts Awarded.

ANNEX Cost, \$1,500,000
SAN FRANCISCO. Bush Street near
 Montgomery St. (50x137-ft.).
 Twenty-two-story class A reinforced
 concrete annex to building.

Owner—Mills Estate, Inc. (Curtis D.
 O'Sullivan, president), Mills Bldg.
 Architect—Lewis P. Hobart, Crocker
 Building.

Contractor—Lindgren and Swinerton,
 Inc., 225 Bush St.

Will be known as Mills Tower.

Excavation—Sibley Grading & Team-
 ing Co., 165 Landers St.

Structural Steel—McClintic - Marshall
 Co., 2050 Bryant St.

Caisson Work—D. J. & T. Sullivan,
 1942 Folsom St.

Plans Being Figured.

ALTERATIONS Cost, \$—
SAN FRANCISCO. No. 550 California
 Street.

Remodel exterior front for bank (work
 involves masonry work, granite,
 terra cotta and brick).

Owner—San Francisco Bank, 526 Cal-
 ifornia St., San Francisco.
 Architect—Ward & Blohne, 24 Cal-
 ifornia St., San Francisco.

Contract Awarded.

BANK Cost approx. \$20,000
CASTROVILLE, Monterey Co., Calif.
 One-story brick bank.
 Owner—Monterey County Trust and
 Savings Bank, Salinas.

Architect—H. H. Winner Co., 580 Mar-
 ket St., San Francisco.

Contractor—Hugh Comstock, El Paseo
 Bldg., Carmel.

Contract Awarded.

ALTERATIONS Cost, \$4605
OAKLAND, Alameda Co., Cal. 1712
 Broadway.

Alterations and additions to store.
 Owner—A. Williams, Bowling Dr. and
 Country Club Rd., Oakland.

Architect—Edw. T. Foulkes, 357 12th
 St., Oakland.

Contractor—Wilbur C. Cone, 1744
 Broadway, Oakland.

Preparing Working Drawings.

STORE Cost, \$—
LOS ANGELES, Cal. 541 S Broad-
 way.

Six-story and basement class A steel
 frame and concrete store with ter-
 ra cotta front.

Owner—F. & W. Grand Co.

Architect—Walker & Eisen, Western
 Pacific Bldg., Los Angeles.
 Construction will start about Feb.
 1, 1931.

Contracts Awarded.

ALTERATIONS Cost, \$10,000
GILROY, Santa Clara Co., Cal.
 Alterations and additions to bank.

Owner—American Trust Co., 464 Cal-
 ifornia St., San Francisco.

Architect—A. H. Herman, 464 Califor-
 nia St., San Francisco.

Sheet Metal—Morrison & Co., 74 Du-
 boce Ave., San Francisco.

Electrical Work—Hollenback Electric
 Works, Gilroy.

Magnesite—Roy Olsen, Gilroy.

Ornamental Signs—Oriol Glass W'ks,
 2845 Gough St., San Francisco.

Ornamental Iron and Bronze—Key-
 stone Ornamental Iron Works, 310
 Tehama St., San Francisco.

Painting—Belton & Spofford, 383 1st
 St., Gilroy.

Carpentry—George Swannstrom, 1723
 Webster St., Oakland.

Vaults—Hermann Safe Co., Howard &
 Main Sts., San Francisco.

Roofing—Bender Roofing Co., 18th and
 Bryant Sts., San Francisco.

Floor—Malott & Peterson, 3221
 20th St., San Francisco.

Hardware—Marshall Newell Co., Spear
 and Mission Sts., San Francisco.

Cabinet Work—Wm. Pateman, 1913
 Bryant St., San Francisco.

Plastering—John Drestli, 253 S Egle-
 berry, Gilroy.

Sub-Contracts Awarded.

ALTERATIONS Cost, \$15,000
SAN FRANCISCO. Geary Street near
 18th Ave.

Alterations and additions to present
 building for confectionery store.

Owner—Care Mr. L. Ebbets.
 Plans by Lawrence Ebbets, 320 Ful-
 ton Street.

House Raising—Pearson and Johnson,
 2031 Bryant St.

Structural Steel—Golden Gate Iron
 Works, 1541 Howard St.

Contract Awarded.

ALTERATIONS Cost, \$40,000
SACRAMENTO, Sacramento Co., Cal.
 No. 401 L Street.

Alterations and additions to building.
 Owner—Pacific Properties, Ltd., How-
 den Bldg., Oakland.

Architect—None.
 Contractor—Max Smith, 500 U St.,
 Sacramento.

To Ask Bids Shortly.

STORES, ETC. Cost, \$1,700,000
SEATTLE, Wash. Third Ave., bet.
 Madison and Spring Sts.

Twenty-five-story (tower type) rein-
 forced concrete stores and offices.

Owner—City Light Building Co.
 Architect—Earl Morrison, Lloyd Bldg.,
 Seattle.

The greater portion of this struc-
 ture will be leased to the City of
 Seattle to be occupied by the City
 Lighting Department. The structure

will have basement, sub-basement
 and three main floors, all of which
 will be leased by the city light de-
 partment. Above the third floor the

building sets back to a tower 130x70
 feet in area. The tower continues to
 the 25th floor where it again steps
 back slightly to permit flood lighting.

The top floor is also leased to the
 city light department for use of
 load dispatchers. Six or seven eleva-
 tors will be installed.

Bids In Held Under Advisement.

ALTERATIONS Cost, \$—
SAN FRANCISCO. No. 550 California
 Street.

Remodel exterior front for bank (work
 involves masonry work, granite,
 terra cotta and brick).

Owner—San Francisco Bank, 526 Cal-

ifornia St., San Francisco.
 Architect—Ward & Blohne, 24 Cal-
 ifornia St., San Francisco.

Owners Will Erect By Day's Labor.

STORES Cost, \$—
SAN MATEO, San Mateo Co., Calif.

Baldwin Ave. and B St.
 One-story concrete (three or more)
 stores, 80x125-ft.

Owner—S. A. Wisnom, 5th and South
 Claremont Sts., San Mateo.

Private Plans.
 Excavation has been started.

Contract Awarded.

BUILDING, Alameda Co. Cost, \$685,000
BERKELEY, Alameda Co., Cal. Uni-
 versity of California Campus

Group of three class B steel frame
 and concrete buildings (College of
 Engineering).

Owner—University of California.
 Architect—G. W. Kelham, 315 Mont-
 gomery St., San Francisco.

Engineer—H. J. Brunner, Sharon
 Bldg., San Francisco.

Will be one- three- and four-stories
 in height.

General Work
 Barrett & Hulp, 918 Harrison
 St., San Francisco.....\$465,616

Mechanical Work
 The Turner Co., 329 Tehama St.
 San Francisco.....56,355

Electrical Work
 NePage-McKenny Co., 123 10th
 St., Oakland.....\$19,704

THEATRES

Plans To Be Prepared.

THEATRE Cost, \$—
REDLING, Shasta Co., Cal. Market
 Street.

Class A Theatre.
 Owner—T. & D. Jr. Enterprises, 25
 Taylor St., San Francisco.

Architect—None.

Contract Awarded.

THEATRE Cost, \$130,000
LOS ANGELES, Cal. No. 959 Broxton
 Avenue.

One-story Class A reinforced con-
 crete theatre (96x160 feet).

Owner—Westwood Realty Co.
 Architect—P. P. Lewis, 1063 West-
 wood Blvd., Los Angeles.

Contractor—Beiler Constr. Co., 6513
 Hollywood Blvd., Los Angeles.

Sub-Figures Being Taken

ALTERATIONS Cost, \$70,000
SACRAMENTO, Sacramento Co., Cal.
 No. 401 L Street.

Alterations to two-story brick thea-
 tre and hotel.

Owner—O. M. Haviside, Howden Bldg.,
 Oakland.

Architect—Douglas Stone, Great
 Western Power Bldg., Oakland.

Contractor—Max Smith, 500 U St.,
 Sacramento.

OAKLAND, Alameda Co., Cal.—
 Lindgren & Swinerton, Inc., 225 Bush
 St., San Francisco, desire sub-bids in

connection with the construction of
 a Class A reinforced concrete theatre
 to be erected on Broadway, 20th and
 Hobart Sts., Oakland, for the Public
 Theatres, Inc. Plans prepared by
 Architects Miller & Plueger, 580 Mar-
 ket St., San Francisco. General bids
 are to be opened October 30.

WHARVES AND DOCKS

STOCKTON, San Joaquin Co., Cal.
 City Manager Walter B. Hogan has

submitted estimates of cost to the
 city council covering contemplated
 improvements of facilities on the
 north side of the Stockton Channel
 for the California Transportation

Company. A shed and elevator, would involve an expenditure of \$30,000; railroad track from Weber Ave., \$125,000 including \$55,000 for additional land which would be required in connection with the improvements.

MORRO BAY, San Luis Obispo Co., Cal.—Engineers of the Standard Oil Company are making soundings for proposed steel pier to be constructed at the local tank farm to permit tankers to load about 2500 feet from shore. A steel pier not now in use in the San Francisco Bay District will be dismantled and re-erected at Morro Bay.

SACRAMENTO, Cal.—Until October 30, 3 P. M., under Circular Proposal No. 31-114, Specifications No. 2538-1710, bids will be received by U. S. Engineer Office, California Field Bldg., to furnish and deliver 3500 linear feet of Redwood or Creosoted Douglas Fir Piling. Further information obtainable from above.

MISCELLANEOUS CONSTRUCTION

PALO ALTO, Santa Clara Co., Cal.—J. F. Byrbee, city engineer, announces an allotment in the fiscal year budget of \$2425 of which \$1725 is to finance extension of the irrigating system, \$375 for tennis courts and \$275 for a baseball backstop in Rinconada Park. Construction of two tennis courts will be started at once. Contemplated improvements in connection with the park improvement involve an expenditure of \$35,000, itemized as follows: Sidewalks on Newell road, Middlefield and Embarradero frontages, \$2720; removal of electric lines, \$1500; storm water sewers, \$3380; laying paths, \$5000; fencing for playground and tennis courts, \$3000; basketball court, \$600; handball courts, \$500; six tennis courts, \$4500; sandpits, \$60; backstop for baseball diamond, \$250; children's playground, \$3000; Irrigation system, \$4000; grading and planting \$6000.

REDWOOD CITY, San Mateo Co., Cal.—Hull Bros., Inc., 205 Main St., Redwood City, at \$707.34 awarded contract by city council to erect fencing at municipal corporation yard in Chestnut street. Complete list of previously published.

SANTA ROSA, Sonoma Co., Cal.—W. L. Proctor, 1000 Spring St., Santa Rosa, at \$663 submitted only bid to city council to furnish material and construct Rose Portal in Fremont Park. The bid is above the estimate and was taken under advisement.

HANFORD, Kings Co., Cal.—Anchor Post Fence Co. of Calif., 460 Fifth St., San Francisco, awarded contract by city council to furnish materials and erect chain link fence, 4 ft. high and 1000 ft. long, at the Municipal Airport. A complete tabulation of the bids were published in issue of October 11.

CALISTOGA, Napa Co., Cal.—Mallot & Peterson, 3221 20th St., San Francisco, at \$2385 awarded contract by Calistoga Joint Union High School District, to construct tennis courts; cement pavement, 4-inch thick and 90x18 feet. Grading and filling and packing 275 cubic yards. A 12-ft. fence about the entire court of galvanized wire mesh 1½-inch and No. 18 wire attached to 1½-in galvanized pipe; 2 gates of 1-inch galvanized pipe; also four net posts set in con-

crete. Complete list of bids follows:
Mallot & Peterson, \$2385
Harry Thorsen, St. Helena, \$2396
C. H. Gildersleeve, Napa, \$2443
H. Carlson, Calistoga, \$2770

SAN FRANCISCO—Readymix Concrete Co., 575 Berry St., and Golden Gate Atlas Materials Co., 16th and Harrison Sts., awarded contracts by city purchasing agent to deliver ready-mixed concrete as may be required from time to time during the balance of the fiscal year 1930-1931; concrete to be Class C (approximate proportions of cement to aggregate 1:6). Awards follows:

Readymix Concrete Co.—Item No. 1, 200 cubic yards (estimated quantity required). Delivered to new playground, Ocean Ave. and Aptos St.; price per cubic yard \$7.50; and Item No. 2, 100 cubic yards (estimated quantity required). Delivered to various playgrounds in small lots of two cubic yards or more; price per cubic yard, \$8.25.

Golden Gate Atlas Materials Co.—Item No. 3, 500 cubic yards (estimated quantity required). Delivered to other points within the limits of the City and County of San Francisco; price per cubic yard, \$7.50.

OAKLAND, Cal.—Until November 6 12 noon, bids will be received by F. C. Merritt, city clerk, to furnish traffic signals and traffic signal timers. Bond of 50% of contract price required of successful bidder. Specifications on file in office of clerk.

OAKLAND, Cal.—Until October 30, 12 noon, bids will be received by Frank C. Merritt, city clerk, to construct reinforced concrete retaining wall with guard railing in portion of Hopkins street, between High Street and Green Acre Road. Bond of \$1500 required of successful bidder. Plans on file in office of clerk. Walter N. Prickstad, city engineer.

REDWOOD CITY, San Mateo Co., Cal.—Following is a complete list of bids received by city clerk, to furnish materials and construct fence at City Corporation Yard in Chestnut St.; to be "Page Protection Fence Style OTR" and "Cyclone Safeguard Fence," or the equivalent of either, height of fence 6 feet.

Hull Bros., 205 Main St., Redwood City, \$707.34.
California Wire Cloth Co., San Francisco, \$707.34.
Anchor Post Fence Co., San Francisco, \$707.34.
Camian Fence Co., San Francisco, \$707.34.
West Coast Wire & Iron Works, San Francisco, \$707.34.
Gray Thorning Co., Redwood City, \$712.34.

Michel & Pfeffer Iron Works, San Francisco, \$720.64.
Award recommended to be made to Hull Bros., the lowest local bidder.

BUSINESS OPPORTUNITIES

American Floor Surfacing Machine Co. (J. L. Steelman, sales manager), 508 S. St. Claire St., Toledo, Ohio. Manufacturers of floor sanding and floor maintenance machines desires a salesman in the San Francisco district.

Utility Materials Co. (C. F. Chandler, general manager), 212 Union Insurance Bldg., Los Angeles, distributors of an eastern-made line of rustic wooden fencing materials is anxious to get in touch with reliable San Francisco concern with the idea of making them their dealer. Also in-

terested in securing agencies for all types of public utility construction materials and will be glad to hear from any San Francisco manufacturers who desire representation in Los Angeles.

R. J. Bidwell Co., 742 Market Street, San Francisco, represents Eastern individual who desires opportunity to develop new outlets for clay brick.

Ryan Metalite Packing Co. (attention J. M. Ryan), 616 Norwalk Highway, Chicago, Ill., manufacturers of rotating seal, wiping rings, automobile packing, individual seal packing for any condition, floating gland packing for vibrating rods such as steam hammer, desire a high type caliber representative who has had merchandising experience and with capital to handle the complete West Coast. 31

LOWERING COST TO OPERATION AT A PROFIT

The present competitive situation has tended to force manufacturers to work on closer price margins than at any time during the past several years. The matter of eliminating waste and cutting costs has, therefore, assumed a position of prime importance, because it may well mean the difference between profit and loss in manufacturing operations. In these circumstances, a system of budgetary control has often been found to be a valuable aid in increasing the efficiency and profitableness of manufacturing operations.

The fact that manufacturing executives are tending to give this subject an increasing amount of attention makes particularly timely a report entitled Budgeting Manufacturing Operations, recently published by the Policyholders Service Bureau of the Metropolitan Life Insurance Company. The facts presented in this report are based on the budgeting practices of more than 80 representative manufacturing concerns. Consideration is given to procedure in developing and administering the production budget, as well as results obtained through its use.

According to the Foreword, the survey was conducted for the purpose of examining methods of budgetary control of manufacturing operations, the cost of which generally represents a large percentage of the total operating cost. Continuity of production is fundamental to stability of employment for the working force. "The planning incidental to budgeting." It continues, "places in the hands of management definite information for outlining the extent of manufacturing operations in advance—a powerful tool for helping to level the peaks and valleys of the employment curve."

The report reviews in considerable detail some of the noteworthy features of budget practices and systems used by the organizations which operated in the survey. Among the important aspects of the problem studied are production schedules, material, labor and manufacturing expense budgets; methods of control for plant and equipment expenditures; comparison of actual and budgeted accomplishments; and incentive systems for securing the latter. The publication is illustrated with reproductions of forms and charts and is obtainable without cost upon request to the Policyholders Service Bureau, 1 Madison Ave., New York, N. Y.

In the annual report of the highway department of the District of Columbia the suggestion is made that a clause be inserted in contracts for paving work in the congested section requiring a double shift of workers to minimize delays to traffic.

Engineering News Section

BRIDGES

KERN COUNTY, Calif.—Until Nov. 12, 2 P. M., bids will be received by State Highway Commission to construct four timber bridges from 17 to 21 miles west of Wasco, one composed of twelve 19-ft. spans, one composed of four 19-ft. spans and two composed of two 19-ft. spans each, all on frame bents with concrete footings.

LOS ANGELES, Cal.—E. G. Perham 1128 Stearns Drive, was awarded contract by the county supervisors at \$25,000 to construct two bridges in San Gabriel Canyon, on the Crystal Lake Road, one over the North Fork, the other over the West Fork.

SAN RAFAEL, Marin Co., Cal.—A. T. Howe, at \$3834 awarded contract by county supervisors to construct two reinforced concrete bridges, one at First Valley Inverness and one at Second Valley Inverness—Point Reyes Road District No. 4, involving: 135 cu. yds. class A Port. cement concrete; 12,600 lbs. reinforcing steel. Complete list of bids follows:

A. T. Howe	.....\$3834
L. Carcano	.....4623
L. Lambretti	.....4725
N. Maggiora	.....4950
Otis H. Smith	.....5139
Seimer & Kendall	.....6763

SAN LUIS OBISPO COUNTY, Cal.—Until October 28, 2 P. M., bids will be received by L. H. Gibson, district engineer, State Highway Commission, Bank of Italy Bldg., San Luis Obispo, to repair timber bridge over San Carpelo Creek about 11 miles north of San Simeon, by constructing timber truss span 75 ft. 10 inches long on concrete piers to replace some of the existing bents. Certified check 10% payable to Director of Public Works required with bid. Plans obtainable from engineer.

YUBA CITY, Sutter Co., Cal.—Until October 31, 2 P. M., bids will be received by J. B. Heiken, secretary, Joint Highway District No. 12, Yuba City, for:

(1) construct concrete trestle bridge 120-ft. in length, across Main Drainage Canal of Reclamation District No. 1500;

(2) construct concrete bridge, 20-ft. in length across Central Irrigation Canal of Sutter Mutual Water Co.

Both structures are located near town of Robbins. Certified check 10% payable to secretary required with bid. Plans obtainable from the engineer, Edward Von Geldern, at Yuba City.

SACRAMENTO, Cal.—C. J. Nystedt, Capital National Bank Bldg., Sacramento, at \$44,966 awarded contract by county supervisors to construct bridge (Hagle bridge) over Laguna Creek. Award made on basis of untreated Douglas fir pile and steel construction.

MERCED, Merced Co., Cal.—Following contracts awarded by county supervisors to construct bridges in various sections of the county:

E. K. Angle, Dos Palos, \$2534 for concrete bridge over canal on Centenella road.

E. K. Angle at \$1750 (total) for timber bridge over Rosa slough on Dos Palos road; 2 timber bridges over irrigation canal on Lone Willow road.

Roy Kruger, Gustine, at \$2825 for concrete bridge on Warren Ingomar road.

C. B. Cameron & Son, Merced, at \$1225 for timber bridge over Black Rascal Creek on Bartholomew road.

Liner & Allen, Merced, at \$2475 for concrete bridge over Duck Slough on Tuttle road.

United Concrete Pipe Co., Merced, at \$607 for concrete pipe culverts on North Branch of Mariposa Creek on Tuttle road.

SACRAMENTO, Cal.—Until October 29, 10 A. M., bids will be received by Harry W. Hall, county clerk, to reconstruct East fender of Walnut Grove bridge. Certified check 10% payable to Chairman of Bd. of Sups. required with bid. Plans obtainable from County Engineer Chas. Deterding.

MODESTO, Stanislaus Co., Calif.—George L. Ulrich Const. Co., Modesto, at \$-975 awarded contract by county supervisors to construct reinforced concrete bridge No. 372 over Hood Creek in Section 17, T. 1 N., R. 11 E., together with earth fill approaches and construction of temporary roadways around proposed structure.

FRESNO, Fresno Co., Cal.—Madsen, 247 Maple St., Fresno, at \$2,992 awarded contract by county supervisors to construct a combination concrete and wooden bridge across the channel of the C and K Canal at Centerville. Project involves: 73 cu. yds. reinforced concrete; 12,632 bd. ft. lumber. Complete list of bids follows:

M. Madsen	.....\$2992
W. T. Harris	.....3188
Geo. G. Wood	.....3323
W. H. Jones	.....3631
D. W. Chamberlin	.....3913
Engineer's estimate	.....3500

HUMBOLDT COUNTY, Cal.—Smith Bros. Co., Eureka, at \$4,547.24 submitted lowest bid to State Highway Commission, 546 Wabash Ave., Eureka, to remove and replace the timber lift span of the bridge over Eureka Slough at Eureka, consisting of one 75-ft. truss span.

Following is a complete list of bids: Smith Bros. Co., Eureka, \$4,547.24; Henry Padgett, Fields Landing 4,870.00; Fred Maurer & Son, Eureka, 5,333.50; Mercer-Fraser Co., Eureka, 6,134.00. Bids forwarded to Sacramento office for award.

OAKLAND, Cal.—County Surveyor George A. Posey preparing plans for bascule type of bridge in Park street over the Oakland-Alameda Estuary. This type of structure was favored following a meeting of Oakland city officials, Alameda city officials, county supervisors and City Port Commission. Will be 400 feet long with 44 ft. roadway. The cost is estimated at between \$500,000 and \$700,000.

LAS VEGAS, Nevada—The state highway department has announced that the state will build a new bridge on the Arrowhead Trail between

Bunkerville and Mesquite some time early next spring. The department plans to expend about \$150,000 for this work. George R. Egan, chief bridge engineer, will have charge of the survey and plans.

OAKLAND, Alameda Co., Cal.—C. J. Nystedt, Scotts Ave. and Commerce St., Stockton, at \$15,536.50 awarded contract by county clerk for repairs to the highway and railroad approaches and the realignment of one highway approach of Fruitvale Ave. bridge in Alameda and Brooklyn Townships.

Followings is a complete list of bids received:

C. J. Nystedt, Stockton	.....\$16,536
A. W. Kitchin, S. F.	.....16,207
M. B. McGowan, S. F.	.....19,930

LOS ANGELES, Cal.—City council will call election shortly to vote bonds of \$1,330,000 for a grade separation at the Santa Fe and Union Pacific tracks at the river and N Main St., including a bridge at Aliso St.

DREDGING, HARBOR WORKS & EXCAVATIONS

OAKLAND, Cal.—City Port Commission, 424 Oakland Bank Bldg., rejects bids received Oct. 14 for clam-shell dredging at Ninth Avenue Pier. Bids were: American Dredging Co., \$445 cu. yd.; Pacific Coast Dredging Co., \$4625. This is second rejection of bids.

SACRAMENTO, Cal.—Until 3 P. M. Oct. 29, bids will be received by the U. S. Engineers' Office, California Fruit Bldg., for raising the existing levee along westerly side of Yolo Ey-Pass, beginning at a point about 0.9 mile SE of Yolo station on the Sacramento Northern Railroad, and extending to the pump house at SE corner of Reclamation District No. 2068. Work consists of 21,750 ft. of levee and involves: 247,000 cu. yds. embankment. Plans may be obtained from above.

MONTEREY, Monterey Co., Cal.—City Manager R. M. Dorton has announced that bids will be called some time in March or April, 1931, for construction of a breakwater to provide a harbor for the city of Monterey.

LOS ANGELES, Cal.—J. P. Immel, 500 W Fifth St., Oxnard, has been awarded a subcontract by Thos. Haverty Co., general contractor on the Santa Clara river project, for moving 280,000 yards of dirt in the Santa Clara production area, constructing levees for a distance of 32 miles between Piru and the ocean. The contract includes all of the dragline work.

RICHMOND, Contra Costa Co., Cal.—City council sells \$86,250 block of municipal harbor bonds to Mechanics Bank of Richmond for a premium of \$11,028. Sale of the bonds enables the city to contribute \$90,000, allotted as its share of the cost of completing the training wall in the harbor, the Federal Government paying the remainder on the project, the total cost of which is placed at \$190,000.

OAKLAND, Calif.—City Port Commission, 424 Oakland Bank Bldg., authorizes construction of timber bulkhead along holdings of American Dredging Co. in Brooklyn Basin. The work will be undertaken by the construction forces of the Commission.

INDIO, Riverside Co., Cal.—Until 8 P. M., Nov. 1, bids will be received by the Coachella Valley Storm Water District, at Indio, for excavation of channels for the district, in three separate contracts, as follows:

Specifications No. 12—10,000 cu. yds. excav. of flood channel, Section 26, Twp. 6 R., S. 8 E., S. B. & M.

Specifications No. 14—33,000 cu. yds. excav. in Sections 26 and 35, Twp. 6 S., S. 8 E., S. B. B. & M.

Specifications No. 15—12,000 cu. yds. in Secs. 29, 30 and 32 Twp. 7 S., R. 9 E.

Plans obtainable from the engineer, G. N. Adams, 216 Rowan Bldg., Los Angeles. Certified check or surety company bond, 10%, must accompany each proposal.

MARYSVILLE, Yuba Co., Cal.—Until October 27, 3 P. M., under Circular Proposal No. 31-132, Specifications 2508, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, to construct four dykes on the Yuba River, between 3 and 8 miles easterly, and upstream from the town of Marysville. Plans obtainable from above office.

VALE, Ore.—Until 2 P. M., Nov. 8, bids will be received by the Bureau of Reclamation, at Vale, Ore., for construction of embankments and earth canal lining on the Vale Main Canal, Vale Project, Oregon. The work is located near Harper, Little Valley and Ballwood, Oregon. The principal items and estimated quantities are:

(1) 11,700 cu. yds. excav. for canal lining;

(2) 6300 cu. yds. excav. for embankments.

Plans may be obtained by application to S. O. Harper, acting chief engineer, Denver. Guarantee of 10% must accompany each bid.

SAN FRANCISCO.—Dutton Dredge Co., Ltd., Mills Bldg., at \$6.50 per hour (dredge operation) awarded contract by Board of Public Works to repair, building up and filling in foreshore of existing levee at Mills Field Municipal Airport and at \$5.00 per hour (dredge operation) to construct boat channel.

LONG BEACH, Cal.—The city council has authorized city engineer Herbert Paterson to complete a survey for a retaining wall and walk to be constructed along the central beach from Alamitos Ave. to 20th Place. The estimated cost is \$400,000. G. W. Flirth, structural engineer, will have immediate charge of the survey.

IRRIGATION PROJECTS

MERCED, Merced Co., Cal.—Election will be held in December to form proposed West San Joaquin Irrigation District, sponsored by People's Protective Association. The district will comprise approximately 250,000 acres, including lands in Merced, Fresno and Stanislaus counties. After formation, bonds will be voted to finance construction of a complete system of irrigation works.

MODESTO, Stanislaus Co., Cal.—Until 10 A. M., October 27, bids will be received by Modesto Irrigation District to improve Upper Main Canal, involving:

Schedule No. 1—Placing 131,500 sq.

ft. of 2½-in. concrete lining and 6500 sq. ft. of 2-in. concrete lining.

Schedule No. 2—Placing with reinforcing steel of 200 cu. yds. of concrete in sidewalks, weir, etc.

Schedule No. 3—Placing 50 cu. yds. concrete in walls and floor of main canal tunnel.

Schedule No. 4—Raising concrete sidewalks of Upper Canal, involving 910 cu. ft. of concrete.

District will furnish cement, the admixture, reinforcing steel, and aggregates of concrete work. Plans obtainable from secretary.

GREENFIELD, Monterey Co., Cal.—Until November 1, bids will be received by George D. Hawley, secretary, Clark Colony Water Co., Greenfield, to construct approximately 3500 feet of cement ditch and to haul 250 yards of gravel. Specifications obtainable from Ernest Thayer, manager of Clark Colony Water Co. at Greenfield.

STREET LIGHTING SYSTEMS

ANAHEIM, Orange Co., Cal.—Until 8 P. M., Nov. 5, bids will be received by the city council for remodeling the lighting systems on North and South Los Angeles Sts., bet. Cypress St. and Broadway, and on East Centre St. between Los Angeles St. and Philadelphia St., under 1911 act, involving 62 standards and glassways. The standards are to be furnished and installed by the contractor under a license agreement with the Consolidated Steel Corp. Plans obtainable from city engineer, E. P. Haggood, upon deposit of \$5. E. B. Merritt, city clerk.

SAN RAFAEL, Marin Co., Cal.—A. C. Rice, at \$3383 awarded contract by city clerk (\$343) to install ornamental street lighting system together with underground system in Fourth Street from E St. to point 77 feet west of 8 St., involving 24 Westinghouse 15 trust standards. 1911 Act.

Following is a complete list of bids:

A. C. Rice.....	\$5,388
R. Flatland, San Francisco.....	5,600
H. C. Reid, San Francisco.....	5,625
City Imp. Co., Berkeley.....	5,749
Butte Electric Mfg. Co., S. F.....	5,835
Hyans & Main, Fairfax.....	8,855
R. B. Hess.....	8,815

MACHINERY AND EQUIPMENT

OAKLAND, Cal.—Guy K. Harrington, 2841 Castro Way, Sacramento, at \$643, only bidder, awarded contract by city council to furnish and deliver one traffic-line marking machine for City Street Department.

SACRAMENTO, Cal.—Until 10 A. M., Nov. 17, bids will be received by the State Purchasing Agent, P. O. Box 621, Sacramento, for equipment, to be delivered to Dept. of Public Works, Division of Highways, Headquarters Shop, as follows:

15 more or less heavy duty 8-ft. leaning wheel graders with scarifier attachments;

10 more or less heavy duty, 8 ft. leaning wheel graders;

5 more or less 7 ft. leaning wheel graders.

All above to be equipped with rubber tired roller bearing wheels and to conform to specifications attached hereto. Prices to be f.o.b. main line terminal points in carload lots.

LA HABRA, Orange Co., Cal.—The city council has instructed the city clerk to advertise for a vacuum street sweeper.

MODESTO, Stanislaus Co., Calif.—City council has adopted Ordinance 390 providing a \$3,300 appropriation to finance purchase of two motor cars and one motor truck for the street department and \$1,000 for the purchase of a chassis for the Fire Department. H. H. Gragg, city clerk.

CORONA, Riverside Co., Cal.—Until 7 P. M., Nov. 4, bids will be received by the city council for furnishing the city with one 8-ton to 10-ton gasoline roller, and one 9-foot road grader. A. M. Hinkley, city clerk.

SACRAMENTO, Cal.—Until Nov. 3, 5 P. M., bids will be received by Chas. C. Hughes, secretary, Board of Education, Administration Bldg., 21st and L Sts., to furnish and install vocational training equipment. Certified check 10% payable to Board of Education required with bid. Specifications obtainable from Assistant Business Manager of the Board at the above address.

ORANGE, Orange Co., Calif.—Until 1 P. M., Nov. 3, bids will be received by the city to furnish one automobile with enclosed cab and steel pickup body for use in Water Department. One model 1919 Ford chassis to be taken in trade. Certified check, 10%. Paul E. Clark, city clerk.

FLAGSTAFF, Ariz.—C. C. Tillison, an electrical engineer of Clarkdale, employed by the United Verde Copper Co. has been working on an engineering plan to take water through a 116-mile tunnel from a dam to be constructed at Marble Canyon, emptying into the Verde river. This water to be used in the Verde Valley and below Phoenix to irrigate approximately 2,000,000 acres of land. The project, to cost \$210,000,000, it is claimed will develop over 1,000,000 horsepower.

RAILROADS

SEATTLE, Wash.—Municipal Utilities Committee of the City Council has authorized preparation of plans to extend municipal car line through the new Denny Hill district. Bonds of \$300,000 will be voted to finance the project.

BOULDER CITY, Nev.—Bids will be asked shortly by U. S. Bureau of Reclamation, Denver, Colo., for the construction of the 7-mile Government railroad from Boulder City, Nev., to the site of the Boulder Dam.

FIRE ALARM SYSTEMS

OAKLAND, Cal.—Until November 6, 12 noon, bids will be received by F. C. Merritt, city clerk, to furnish traffic signals and traffic signal lights. Bond of 50% of contract price required of successful bidder. Specifications on file in office of clerk.

FIRE EQUIPMENT

SAN FRANCISCO.—Until October 27, 3 P. M. (date extended from Oct. 20), under Proposal No. 644, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish and deliver cotton rubber-lined fire hose for Fire Department, as follows:

2,000 ft. 3½-inch;

12,000 ft. 2½-inch;

5,000 ft. 1½-inch.

Specifications and further information obtainable from above.

PACIFIC GROVE, Monterey Co., Cal.—Election will be held November 4 to vote bonds of \$15,000 to finance purchase of a motor fire engine. Elgin C. Hurlbert, city clerk.

LOS GATOS, Santa Clara Co., Cal.—Until November 3, 7:30 P. M., bids will be received by Dennis M. Wining, city clerk, to furnish and deliver 500-ft. of fire hose coupled complete, 2½-inch internal diameter and capable of standing pressure of 400-lbs. per square inch. Samples must accompany bid. Further information obtainable from clerk.

RESERVOIRS AND DAMS

MOULTON LANDING, Colusa Co., Cal.—Bids will be asked shortly by U. S. Engineer Office, California Fruit Bldg., Sacramento, to construct reinforced concrete weir at Moulton Landing; will be 500-ft. long and will include two abutments 40-ft. in length.

WHITTIER, Cal.—City council rejects bids to construct 10,000,000-gal. reservoir for city water department and work will be done by force account, under the supervision of the City Engineer M. R. Bowen.

PIPE LINES, WELLS, ETC.

FAIR OAKS, Sacramento Co., Cal.—Sacramento Pipe Works, 16th and North B Sts., Sacramento, awarded contract by Fair Oaks Irrigation District to furnish steel slip-joint pipe, as follows: 2000 ft. 30-in. 8-gauge and 2000 ft. 30-in. 10-gauge at \$3.24 ft. and 2000 ft. 12-in. 12-gauge at \$.89 ft.

SEATTLE, Wash.—Queen City Construction Co., 603 Eighteenth Ave., South, Seattle, at \$1,207,116.36, using lock-bar pipe, awarded contract by Board of Public Works to construct Cedar River Pipe Line Project No. 1, in addition to a connection with the city's main supply lines in Beacon Ave.

SEWERS AND SEWAGE DISPOSAL PLANTS

LONG BEACH, Cal.—City Engineer Herbert Paterson has completed plans for storm drain in NE section of the city. Estimated cost, \$786,800. The district is designated as No. 8. At present, the plans include a portion of Signal Hill but will be revised if Signal Hill does not participate.

OAKLAND, Cal.—W. J. Tobin, 527 Balfour St., Oakland, at approximately \$23,000 awarded contract by city council to construct drainage structures and sewers in portions of Hopkins St., Midvale Ave. and other streets; pipe 8-in. to 36-in.

WATER WORKS

SPOKANE, Wash.—Morrison-Knudsen, 319 Broadway, Boise, Idaho, at \$31,283 submitted low bid to city council to construct 1,250,000-gallon concrete water tank together with connecting pipe lines. Alloway & Georg, next low at \$89,913.

Chicago Bridge & Iron Works low for 1,250,000-gallon steel tank together with connecting pipe lines. Pittsburgh-Des Moines Steel Co. next low at \$74,600.

Bids taken under advisement.

STOCKTON, San Joaquin Co., Cal.—City council will appropriate \$2500 for the purchase and installation of fire hydrants W. B. Hogan is city manager.

SAN MATEO, San Mateo Co., Cal.—Nash Englehardt Mfg. Co., 502 W. Santa Clara St., San Jose, at \$795 submitted lowest bid to City Clerk to

construct pumping plant in San Mateo City Park.

Following is a complete list of bids received:

Nash Englehardt Mfg. Co., 502 W. Santa Clara St., San Jose ...\$ 795
Fairbanks Morse Co., S. F. 942
Bradford Pump Co., 1000
Simons Machinery Co., S. F. 1090
Wooden & Little, S. F. 1127
Kimball Krogh Pump Co., S. F. 1321
Byron Jackson Pump Co., S. F. 1604
Bids held under advisement for a week or so.

PHOENIX, Ariz.—Until 10 A. M., Oct. 29, bids will be received by the city manager, Geo. H. Todd, for construction of water mains, Job No. W-3041-B. The proposed work includes the furnishing of all material, equipment, labor, etc., for the complete construction of extensions to the water system of the city of Phoenix on Third St. from Gray to Hadley Sts., and the approximate quantities for the comparison of bids are as follows: 802 lin. ft. 8-in. B. bell and spigot cast iron water pipe;

12 lin. ft. 6-in. class B bell and spigot cast iron water pipe;
2 each, 8-in. valves with adjustable valve box and cover;
2 each, 6-in. valves with adjustable valve box and cover;
2 each, 8½-in. tees;
1 each, 8-in. tap plug;
2 each, 8-in. 45-deg. curves;
2 each, 6-in. 90-deg. curves;
2 each, 4-in. fire hydrants with 6-in. connections.

Alternate proposals will be received on De-Lavand class 150 centrifugally cast iron water pipe; McWane open bell class 150 cast iron water pipe; Mono cast class 150 cast iron water pipe; McWane precast cast iron water pipe.

MERCED, Merced Co., Cal.—Byron Jackson Pump Co., Sixth and Carlton Sts., Berkeley, at approximately \$3000 awarded contract by Merced Irrigation District to furnish and install three drainage pumps and motors complete.

SANTA CRUZ, Santa Cruz Co., Cal.—City Engineer Roy Fowler is comparing plans for installation of 11,000 feet of 20-inch pipe water extensions to connect the Bay street reservoir with the Crossing street pumping plant. The cost is estimated at \$35,000.

HAYWARD, Alameda Co., Calif.—Election will be held Nov. 1 in Castro Valley Water District to vote bonds of \$150,000 to finance construction of domestic water system to be served by the East Bay Municipal Utility Dist.

SAN FRANCISCO—Until November 7, 11 A. M., bids will be received by Constructing Quartermaster, Fort Mason, to furnish and install water softener at Power Plant at Letterman

General Hospital. Plans obtainable from above.

SAN FRANCISCO.—Chicago Bridge and Iron Works, Rialto Bldg., at \$5,410 awarded contract by Constructing Quartermaster, Fort Mason, to construct 50,000-gal. steel water tank on a 55-ft. trestle at Fort Miley. Present tank and trestle to be removed by contractor for new work.

GRANTS PASS, Ore.—Until Oct. 28, 5 P. M., bids will be received by C. R. Duer, city auditor, for two units of municipal water construction, Section No. 2, installation of distributing mains and Section No. 3, concrete lining of reservoirs.

These improvements call for the installation of new cast iron mains, setting valves, hydrants and fittings and various connections to the now existing distribution system, together with concrete lining of two reservoirs. This work is divided into sections, and bidders may submit bids on either one or both sections. The principal items of construction are approximately:

Section No. 2—Distribution System
10,000 cu. yds. excavation and backfill.

4,500 lin. ft. 16-in. pipe;
10,000 lin. ft. 12-in. pipe;
1,200 lin. ft. 10-in. pipe;
13,000 lin. ft. 8-in. pipe;
24,000 lin. ft. 6-in. pipe;
Set 110 gate valves;
Set 93 hydrants;
Install 70,000 lbs. cast iron fittings.
Material listed above has been previously purchased by the City of Grants Pass. In addition to the foregoing, there will be pavement and sidewalk cuts, cutting in and connecting new mains to the old system. Alternates will be considered for doing the excavation by machine or by hand.

Section No. 3—Reservoir Lining
Concrete (175 barrels) 600 cu. yds.;
Reinforcing steel, 38,000 lbs.;
Two truss roofs, 66 ft. by 103 ft.
Certified checks payable to City Treasurer required as follows: 1,500 under Section 2; \$750 under Section No. 3. Bond of 50% of contract price required of the successful bidder.

Plans on file in office of City Auditor and obtainable from Baer & Cunningham, consulting engineers, 414 Spalding Bldg., Portland, on deposit of \$15 for both sections or \$10 for one section, both returnable.

CONTRA COSTA CO., Cal.—Hutchinson Co., 1450 Harrison St., Oakland, awarded contract by California Water Service Corp. for digging trenches in connection with pipe lines from Golinda Station to Pacheco, Walnut Creek and Danville.

CHICO, Butte Co., Cal.—Parker Hardware Co., Chico, at \$195.36 awarded contract by Board of Education to install pump in connection

DO NOT RISK AN EXPERIMENT

SPECIFY -- USE

Timpie Hydrated Lime

STRONG—PURE—PLASTIC

Ten Years of Uniformly Satisfactory Experience in High

Class Pacific Coast Construction

FOR BRICK MORTAR, WHITE COAT AND SAND FLOAT FINISH

Sold by Representative Dealers Everywhere

with water system at Paradise school. Other bids: Clark Hardware Co., \$149.50; J. C. Plummer, \$202.95; Farm Equipment Co., \$205.30.

PLAYGROUNDS & PARKS

SANTA ROSA, Sonoma Co., Cal.—W. L. Proctor, 1000 Spring St., Santa Rosa, at \$555 submitted only bid to city council to furnish material and construct Rose Portal in Fremont Park. The bid is above the estimate and was taken under advisement.

STREETS AND HIGHWAYS

OAKLAND, Cal.—City council declares intention to construct cement concrete sidewalks in portions of Ney Ave., Ritchie St., 82nd Ave., 69th Ave. and Monticello Ave., 1911 Act. Hearing Nov. 6. Frank C. Merritt, city clerk. Walter N. Frickstad, city engineer.

OAKLAND, Cal.—Until October 30, 12 noon, bids will be received by Frank C. Merritt, city clerk, to construct reinforced concrete retaining wall with guard railing in portion of Hopkins street, between High Street and Green Acre Road. Bond of \$1500 required of successful bidder. Plans on file in office of clerk. Walter N. Frickstad, city engineer.

CARMEL, Monterey Co., Cal.—City council starts proceedings for cement concrete paving in 6th St. bet. Monte Verde and San Carlos and Monte Verde St. bet. Lincoln and Dolores, and bet. 6th St. and Ocean Ave.

PACIFIC GROVE, Monterey Co., Cal.—Until Nov. 6, 7:30 P. M., bids will be received by Elgin C. Hurlbert, city clerk, (3269) to improve:

Bayview Ave. bet. Jewel Ave. and Dennett St.;

Cedar St. bet. Lighthouse and Bayview Aves.;

Del Monte Ave. (Alder Street) bet. Lighthouse and Esquivel Aves.; and Jewel Ave. from Pacific Ave. to point 510 feet westerly, involving grading; cem. conc. curbs and gutters; 4-inch decomposed granite base pave, with 2-in. asph. conc. wearing surface; two conc. catchbasins; 4-in. vit. clay pipe lateral sewers. 1911 Act. Bond Act 1915. Certified check 10% payable to city required. Specifications obtainable from H. Severance, city engineer.

PACIFIC GROVE, Monterey Co., Cal.—Clark and Henery Const. Co., Chancery Bldg., San Francisco awarded contract by city council (3254) to improve Pacific Ave. and point 70 ft. north of Pacific Ave., involving cem. conc. curbs and gutters; 2-in. asph. conc. pavement on existing base; 2 conc. catchbasins; 4-in. vit. clay lateral sewers.

OAKLAND, Cal.—City council declares intention to construct cement sidewalks in portions of Allendale Ave., Birdsall Ave. and 7th Avenue. 1911 Act. Hearing Nov. 6. Frank C. Merritt, city clerk. Walter N. Frickstad, city engineer.

SANTA BARBARA, Cal.—Until 10 A. M., Nov. 3, bids will be received by the county to construct graded and drained old macadam road, located on the old turnpike road, bet. state highway (Hollister Ave.) and overhead crossing over the Southern Pacific Railroad right-of-way in the 3rd Road District. Plans obtainable from county surveyor, Owen H. O'Neill, on deposit of \$5. Certified check. 10%. D. F. Hunt, county clerk.

SAN JOSE, Santa Clara Co., Cal.—City council declares intention (5216) to improve portions of Morlan Ave. bet. Santa Clara and 13th Sts., involving grading; 1½-in. asph. conc. surface pavement on 2½-in. asph. conc. base, cem. concrete walks and curbs. 1911 Act. Hearing Nov. 10. John J. Lynch, city clerk. Wm. Popp, city engineer.

TEHAMA CO., Cal.—Until March 10 (1931), 2 P. M., bids will be received by C. H. Sweetser, district engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, for surfacing Section E and applying bituminous surface treatment on Sections A, B, C, D and E, Route No. 1, Loop Route, Lassen Volcanic National Park. The length of the project to be surfaced is 7.71 miles and the length of the project on which bituminous surface treatment is to be applied is 29.77 miles. Contractors who desire to furnish a bid on this project this Winter are requested to go over the ground not later than November 1, 1930. It is expected that \$150,000 will be made available for this project. Plans obtainable from above office on deposit of \$10, returnable, checks for same to be made payable to Federal Reserve Bank of San Francisco.

ARIZONA.—Until March 3 (1931), 2 P. M., bids will be received by C. H. Sweetser, district engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, for surfacing and applying bituminous surface treatment on Project No. 4 (surfacing) Bright Angel Springs, North Entrance, on North Rim of the Grand Canyon National Park, Arizona, 9.97 miles in length. It is expected that \$90,000 will be made available for this work. Plans obtainable from above office on deposit of \$10, returnable, checks for same to be made payable to the Federal Reserve Bank of San Francisco.

BAKERSFIELD, Kern Co., Cal.—Stroud Bros., Bakersfield, at \$124.71 submitted low bid to county supervisors to construct concrete landing

and walks at the county airport. Complete list of unit bids follows:

Stroud Bros. (a) 821.2 sq. ft. 4½-in. concrete walks, 18c; (b) 4000 sq. ft. 7½-in. concrete landing, 27½c (c) 4000 sq. ft. (alt. 6-in.) landing, 24c. Total \$1243.71.
Weltzel & Larsen, Bakersfield (a) 18c; (b) 28½c; (c) 25c. \$1287.32.
Currie & Duglar, Bakersfield (a) 23½c; (b) 31c; (c) 25c. \$1432.98.
Dean & Stroble, Bakersfield (a) 19½c; (b) 32c; (c) \$1440.13.
Clark Gramling, Bakersfield (a) 30c; (b) 43c; (c) 36c. \$1566.35.

Taken under advisement until October 20.

SAN FRANCISCO.—Bureau of Engineering, Department of Public Works, 3rd floor, City Hall, completes plans to improve Santa Cruz Ave. bet. DeLong St. and the county line; estimated cost \$4500. Project involves:

450 cu. yds. excavation;
100 cu. yds. embankment;
938 lin. ft. armored concrete curb;
468 lin. ft. 6-in. V.C.P. side sewer in place.
12,200 sq. ft. asph. conc. pavement, 2-in. asph. conc. surface with 6-in. class F concrete base.

SANTA BARBARA, Calif.—Wm. H. West, 124 Depot Road, Santa Barbara, at \$22,550 awarded contract by county supervisors to construct San Julian Road, involving:

49,630 cu. yds. excavation;
426 lin. ft. 18-in. corr. iron pipe;
122 lin. ft. 24-in. do;
72 lin. ft. 30-in. do;
195 cu. yds. reinf. conc. for culverts, walls, etc.;
2,500 miles 5 wire fence, including gates;
6 each gates.

PALO ALTO, Santa Clara Co., Cal.—Proceedings have been started by the city council to improve 16 streets (2 miles in all) in various sections of the city at a cost of \$35,000. Streets included are: Princeton bet. Stanford and Cambridge; Oberlin bet. College and California; Harvard bet. Stanford and California; Sherman bet. Second and Third; Dana and Forest Court bet. Duffield subdivision; Harker bet. Melville and Hutchison; Pine bet. Harker and Hopkins; Embarcadero bet. Alma and Kingsley; Lane B East, bounded by Addison, Lincoln, Emerson and High; Palo Alto Ave. bet. Fulton and Everett; Addison between Channing and Pike; Pope bet. University and Hamilton; Hale bet. Palo Alto Ave. and University; Webster bet. Melville and Embarcadero; Santa Rita bet. Waverley and Cowper. J. F. Eyshee is city engineer.

SALINAS, Monterey Co., Cal.—Until November 3, 2 P. M., bids will be received by C. F. Joy, county clerk, to improve portion of the Nativid road from Nativid to point approximately 1 mile north of the county hospital in Supervisor Districts Nos. 1 and 2. Specifications obtainable from Howard Cozens, county surveyor, on deposit of \$10, returnable.

LOS ANGELES COUNTY, Cal.—Following bids received Oct. 22 by State Highway Commission for clearing 5.3 miles between 4 miles north of La Canada and Colby Canyon:
Morris Const. Co., Long Beach (irregular) \$ 7.67
Dnn G. Munro, Los Angeles 15,525
R. G. Le Tourneau, Stockton 20,930
Bids held under advisement.

SANTA BARBARA, Cal.—Cornwall Const. Co., Santa Barbara, at \$25,362 awarded contract by State Highway Commission to grade and pave with Portland cement concrete, 0.6 mile about ½ mile north of Santa Maria.

CONTRACTORS' MACHINE WORKS

SPECIALISTS ON REPAIRING AND REBUILDING OF

Bunkers, Hoppers, Chuting, Conveyors, Rollers, Mixers, Hoists, Shovels, Tractors, Pavers, Crushers, Drag Lines, Elevators, Car Unloaders, and other Road and Building Equipments;

BLACKSMITHING AND WELDING

Builders of Rosenberg Portable Car Unloaders

CREAR & BATES

57 Zoe St., bet. 3rd and 4th, off Brannan St.
Phone GARfield 4374 San Francisco

MARIPOSA COUNTY, Cal.—A. C. Goerig, 413 Fairview Ave. North, Seattle, Wash., at \$67,224 submitted low bid to C. H. Sweetzetter, district engineer, U. S. Bureau of Public Roads, San Francisco, for grading from Sta. 0+00 to Sta. 201+13, Section 5-A of Route No. 2, Wawona Route, and widening from Sta. 61+86 to Sta. 70+57 on Section B-2, of Route No. 1, South Road, all in Yosemite National Park, 3.697 miles in length. Project involves:

20 acres clearing;
96,000 cu. yds. excav. unclass;
1,500 cu. yds. excav. for struc.;
13,500 cu. yds. borrow unclass.;
121,500 sta. yds. overhaul;
3,697 mi. finish earth graded road;
506 cu. yds. class A concrete;
15,600 lbs. reinf. steel;
3,150 cu. yds. cement rubble masonry
2,142 lin. ft. corr. metal pipe in place;
1,026 cu. yds. hand laid rock embankment;
73,300 cu. yds. mis. hauling borrow and tunnel excav. material;
4,230 lin. ft. tunnel excavation;
1,050 lin. ft. gallery excavation;
500 lin. ft. conc. tunnel lining;
600 cu. yds. Gunite lining.

Following is a complete list of bids submitted:

A. C. Goerig, Seattle.....\$67,224
Utah Constr. Co., S. F.....654,145
J. G. Donovan, Los Angeles.....672,158
C. R. Johnson, Portland, Ore.....691,216
T. E. Connolly, S. F.....700,019
H. W. Rohl, Los Angeles.....720,833
O. A. Lindberg, Stockton.....738,584
W. S. Mead, Oakland.....751,528
A. Guthrie, Portland.....760,447
Youdall Co., San Francisco.....768,447
W. A. Bechtel, S. F.....771,610
MacDonald & Kahn, S. F.....774,499
Geo Pollock, Sacramento.....814,499
Western Constr. Co., L. A.....843,209

OAKLAND, Cal.—Heafey-Moore Co., 344 High St., Oakland, at \$6,54 ton awarded contract by city council to pave with asphalt concrete A St., between Warehouses A and B on the Outer Harbor Terminal.

PACIFIC GROVE, Monterey Co., Cal.—Clark & Henery Construction Co., Chancery Bldg., San Francisco, awarded contract by city council (\$239) to improve Willow St. bet. Light-house and Junipero Aves., involving cem. conc. curbs and gutters; 2-in. asph. conc. pavement on existing base; 2 conc. catchbasins; 4-in. vit. clay lateral sewers.

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OAKLAND, Cal.—City Council declares intention to improve 92nd Ave., bet. G and Russett Sts., involving grading; curbs; gutters; pave; sewer; manholes; wye branches; storm water inlets and conduits. 1911 Act. Hearing Nov 13. Frank C. Merritt, city clerk. Walter N. Frickstad, city engineer.

OAKLAND, Cal.—Until October 30, 12 noon, bids will be received by Frank C. Merritt, city clerk, to improve portions of Harrison St., bet. First and Fourth Streets. Bond of 25% of contract price required of the successful bidder. Specifications on file in office of clerk.

IMPERIAL COUNTY, Calif.—Following bids received Oct. 22 by State Highway Commission to grade and pave with asphalt concrete 13.1 miles between Arroyo Salado and the northerly boundary.

R. E. Hazard Const. Co., 2508 Kettner Blvd., San Diego.....\$489,125
Hanrahan Const. Co., S. F.....499,584

Southwest Paving Co., L. A.....521,596
Clark & Henery, S. F.....532,485
Peninsular Paving Co., S. F.....534,971
Griffith Co., Los Angeles.....544,400
V. R. Dennis Const. Co., San Diego.....544,473
H. W. Rohl Co., Los Angeles.....549,391
Gibbons & Reid Co., Burbank.....549,682
G. H. Oswald, Los Angeles.....551,415
New Mexico Const. Co., Inc., Albuquerque.....552,207
Chas. Heuser, Glendale.....571,072
Bassich Bros. Const. Co., Torrance.....575,571
Central Calif. Roads Co. and Southern Calif. Roads Co., Los Angeles.....583,454
Allied Contractors Inc., Omaha Nebraska.....670,749
*G. R. Curtis Paving Co., L. A. Bids held under advisement.
*Eid not totaled.

SAN BERNARDINO CO., Cal.—Martin Green, San Bernardino, at \$32,389 awarded contract by State Highway Commission to pave with Portland cement concrete, 0.3 mile at Malaga St.

SAN FRANCISCO—Bureau of Engineering, Department of Public Works, 3rd floor, City Hall, completes plans and bids will be asked in the immediate future to improve Montgomery St from Union to Greenwich Sts.; Alta St. from Montgomery to point 303 ft. easterly; Filbert St. from Montgomery to point 16 ft. westerly, and from Montgomery to point 22 ft. easterly; Greenwich St. from Montgomery to point 22 ft. westerly, involving:

3,040 cu. yd. excavation
1,285 cu. yd. "B" concrete (retaining walls, balustrade, stairs, fences)
115,000 lb. reinforcing steel
1,540 lin. ft. 4x4 in. rein. concrete fence, single rail
23,600 sq. ft. 6-in. "E" concrete pavement
11,200 sq. ft. 8-in. waterbound macadam base and oiled surface
6 tons asph. concrete conform pavement
2,740 lin. ft. armored concrete curb
6,990 sq. ft. 1-course concrete sidewalk
250 lin. ft. 4x16-in. redwood curb
33 lin. ft. wood guard rail, heavy type
450 lin. ft. wood fence, light type
190 lin. ft. wood bulkhead
110 lin. ft. 2-pipe railing concrete posts
3 9-unit rod wearing reflectors
810 lin. ft. 8-in. vitrified sewer
540 lin. ft. 12-in. vitrified sewer
20 lin. ft. Class B 8-in. cast iron sewer
35 lin. ft. Class B 12-in. cast iron sewer
140 lin. ft. 6-in. vitrified side sewer
32 8-in.x6-in. Y's or T's
10 12-in.x6-in. Y's or T's
120 lin. ft. 12-in. vitrified culvert
15 brick manholes
6 brick catchbasins
2 storm water inlets
2 lighting system complete

Work under Street Improvement Ordinance of 1918. Assessment district has been formed to finance this project. Hearing before Board of Public Works on November 7.

SAN JOSE, Santa Clara Co., Cal.—City council declares intention (\$218) to improve Vermont St. bet. Myrtle and Elm Sts., involving grading; 1½-in. asph. conc. surface pavement on 2½-in. asph. conc. base; 4-in. vitrified house lateral sewers; cem. conc. walks and gutters. 1911 Act. Hearing Nov. 10. John J. Lynch, city clerk. Wm. Pepp, city engineer.

HAYWARD, Alameda Co., Cal.—City Engineer Jesse B. Holly preparing specifications for 6-inch macadam surface on portions of Warren and Prospect Sts.

SACRAMENTO, Cal.—Until October 29, 10 A. M., bids will be received by Harry W. Hall, County Clerk, to construct asphaltic concrete shoulders of Fairboks Blvd., from a point near Sierra Oaks easterly. Certified check 10% payable to Chairman of Bd. of Sups. required with bid. Plans obtainable from Chas. Deterding, county engineer.

SACRAMENTO, Cal.—Until October 29, 10 A. M., bids will be received by Harry W. Hall, County Clerk, to construct asphaltic macadam pavement or asphalt concrete pavement in Sixty-fifth street. Certified check 10% payable to Chairman of Bd. of Sups. required with bid. Plans obtainable from County Engineer Chas. Deterding.

OAKLAND, Cal.—Until November 5 10:30 A. M., bids will be received by Geo. E. Gross, county clerk, to improve portion of Hayward Redwood Canyon Road (County Road 7355) from point approx. 5 miles south from Pinehurst Road for a distance of 2 miles, involving:

80,000 cu. yds. grading;
50 yd. 12-in. corr. culvert;
700 ft. 15-in. do;
800 ft. 18-in. do;
70,000 sta. yds. overhaul.

Certified check 10% payable to county clerk required with bid. Plans obtainable from Geo. A. Posey, county surveyor, on deposit of \$25, returnable.

Texas Forms Bureaus For Building Homes

Several Texas cities have begun plans to establish bureaus which will work for the protection of the homebuyer from unsound investments in buildings badly built by irresponsible contractors, says T. the Constructor. Houston, San Antonio and Dallas have already begun plans for establishing such bureaus and Fort Worth is studying the matter.

The plans being adopted by these cities are modeled on the one now in operation in Oklahoma City which was adopted last March by the Better Homes Construction Bureau organized by the building and loan associations of the city. This bureau set up minimum specifications, employed a staff of inspectors and announced that no new construction would be financed by its members that did not meet the specifications and which had not been supervised by the inspectors.

Through the operation of this bureau mortgage loans have gained prestige as sound investments and a general loosening up of construction funds has resulted while the unscrupulous jerry-builder has been eliminated, it is stated. Moreover, it is claimed legitimate contractors are profiting by this move through the impetus it has given to sound construction.

The bureau makes loans up to 75 per cent of the appraisal value on homes meeting Class A specifications, up to 60 per cent on Class B homes and 30 per cent on Class C homes and no loans of any amount on homes of no classification. Through its operations the number of homes rated as Class A increased from 5.4 per cent of the total to 36 per cent and "no classification" homes were reduced from 18 per cent to less than 1 per cent after the bureau had functioned 5 months.

QUANTITIES OF MATERIALS FOR HETCH HETCHY PIPE LINE

SAN FRANCISCO.—Until October 29, 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to construct Newark-San Lorenzo Pipe Line in Alameda County, under Contract No. 122, Hetch Hetchy Project. Bids are to be received in two sections, Part No. 1 and Part No. 2. The cost is estimated at \$800,000 and a bond of 20 per cent of the total contract price will be required of the successful bidder. The approximate quantity of materials are:

Riveted Pipe 46-in. and 38-in.		Lock Bar and welded pipe 44-in. and 36-in.	
Section A		Section B	
46-in. or 44-in.		38-in. or 36-in.	
Part No. 1			
Furnish 46-inch or 44-inch pipe		35,000 lin. ft.	Section A
Furnish 38-inch or 36-inch pipe		32,000 lin. ft.	Section B
Part No. 2			
Deliver and install 44-inch or 46-inch pipe		35,000 lin. ft.	Section A
Deliver and install 38-inch or 36-inch pipe		32,000 lin. ft.	Section B
Furnish and install beveled courses for curved sections of:			
46-inch or 44-inch pipe courses		100	Section A
36-inch or 38-inch pipe courses		100	Section B
Expansion Joints:			
46-inch or 44-inch pipe joints		4	Section A
36-inch or 38-inch pipe joints		4	Section B
	Sec. A	Sec. B	Total
Furnish and install manholes.....	20	20	40
Furnish and install 8-inch nozzles.....	10	10	20
Furnish and install 6-inch nozzles.....	10	10	20
Furnish and install structural steel.....	1,000 lbs.	1,000 lbs.	2,000 lbs.
Metal work furnished by city (installed).....	4,000 lbs.	4,000 lbs.	8,000 lbs.
Excavation, more than 1-ft. depth if for			
Riveted pipe	4,100 cu. yds.	4,100 cu. yds.	8,200 cu. yds.
Lock bar	4,000 cu. yds.	4,000 cu. yds.	8,200 cu. yds.
Excavation, 1-ft. or less in depth if for			
Riveted pipe	6,100 cu. yds.	4,100 cu. yds.	10,200 cu. yds.
Lock bar or welded.....	6,000 cu. yds.	4,000 cu. yds.	10,000 cu. yds.
Concrete, class A.....	20 cu. yds.	20 cu. yds.	40 cu. yds.
Concrete, class B.....	100 cu. yds.	100 cu. yds.	200 cu. yds.
Reinforcing steel.....	15,000 lbs.	15,000 lbs.	30,000 lbs.
Broken rock pavement.....	1,000 sq. ft.	1,000 sq. ft.	2,000 sq. ft.
Redwood lumber, M. ft. B.M.....	50 ft.	50 ft.	100 ft.
Douglas Fir lumber, M. ft. B.M.....	150 ft.	150 ft.	300 ft.
Bolts, Nuts, etc., galvanized.....	2,000 lbs.	2,000 lbs.	4,000 lbs.
Certified check 10% payable to clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall.			

Certified check 10% payable to clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall.

TRANSFER BODIES SOLVE READY-MIXED CONCRETE DELIVERY

Believing that an efficient concrete mixer cannot be built light enough to mount upon a motor truck and still stand up under continuous daily service, Norris K. Davis, Inc., San Francisco, is meeting the demand for the delivery of ready-mixed concrete with a series of concrete transfer bodies in which concrete is carried directly from a central mixing plant to the job.

These are available in capacities of 1, 1½, 2, 3 and 4 cu. yds. for mounting on any make of truck chassis of appropriate capacity.

The body consists of a rotating cylinder supported on four rollers that revolve in heavy-duty roller bearings. Power for rotation is obtained either from the truck engine through a power take-off and reduction gear or by a separate power unit.

Welded to the drum shell are two high-carbon steel flanged track rings and a driving gear made from a chrome nickel steel forging. An adjustable brake to hold the drum in any position is mounted on one of the track rings. The loading gate, of steel construction, is equipped with a renewable rubber gasket joint to assure an airtight and water-tight seal. It is located midway between the two track rings and is loaded from above. The discharge gate, at the rear, consists of a steel plate sliding in machined adjustable guide.

Opening and closing is by means of a hand wheel with double rack and pinion. Wear on the body is very

slight, due to the fact that it is necessary to revolve the drum for only about the first 200 ft. and the last 400 ft. of the journey; during the rest of the time no rotation is necessary. Most loads can be discharged by gravity; it is only necessary to elevate the drum for low-slump concrete.

BUSINESS IMPROVING TRADE SURVEY DISCLOSES

More improvement than in any recent month is reflected in the October trade survey of "Credit Monthly," publication of the National Association of Credit Men. The improvement applies to both sales and collections of wholesale and manufacturing firms in the 100 cities covered.

Seven cities reported sales brisk, sixty-six reported them fair and twenty-seven, slow. Two cities moved from the "fair" column to "good" during the month, and twelve shifted from the "slow" classification to "fair."

The cities reporting brisk sales were Milwaukee, Wis., Tampa, Fla., Austin, Texas, and Des Moines, Ottumwa, Cedar Rapids and Waterloo, Iowa.

Three cities reported collections good, whereas only one city reported good collections a month ago. These cities were Cedar Rapids, Ia., Austin, Tex., and Huntington, W. Va. Sixty-four other cities reported collections fair, while thirty-three reported them slow. Fifteen cities reported an improvement in collections during the month, moving from the "slow" column to "fair."

Lien Cannot Hold Against Lot Improved In Error, Court Rules

A lien cannot hold against a lot improved by mistake, it was ruled by the supreme court of North Carolina in the case of C. A. Honeycutt, Baltimore Builders Supply Co. and Trumbo & Son, Inc., vs. Kenilworth Development Co., an appeal from the superior court of that state.

West & Hazelrigg purchased a lot from the Kenilworth Development Co. and later started to build a house. After work was well under way the builders discovered they had started the house on the wrong lot and endeavored to effect an exchange of lots but the subdividers would not deliver a deed when they found a mortgage had been placed on the lot purchased.

Later the lot on which the house was started was sold to J. C. Miller. In determining the validity of claims for lien filed upon it the court held "the record does not disclose any contract or agreement whatever between said Development Co. and West & Hazelrigg, who undertook to build a house thereon. In other words, West & Hazelrigg, through mistake, purchased building material and commenced the erection of a house on a lot which they did not own, and therefore, there existed no contractual relation between West & Hazelrigg and the defendant Development Company. The plaintiffs furnished material for said building to West & Hazelrigg, and they were also ignorant of the mistake in the ownership of the lot."

"The statute gives a lien upon 'every building' * * * together with the necessary lot on which such building is situated," etc. But neither the statute nor the decision construing it permit a lien to be filed on a lot upon which a third person has 'squatted' or undertaken to erect a building without title thereto and without a contract or agreement express or implied with the owner thereof."

PRIZES OFFERED FOR ELEVATED STEEL TANK DESIGNS

In order to develop further the natural architectural possibilities which it believes inherent in elevated steel tanks, the Chicago Bridge & Iron Works, Chicago, Ill., is sponsoring a competition, open to any architect, engineer or draftsman, for the design of a typical tank and tower.

Eight prizes ranging from \$2000 to \$100 are offered.

These will be awarded by a jury consisting of Howard Cheney, president, Chicago chapter, American Institute of Architects; R. W. Zimmerman, architect, Chicago, and George T. Horton, of the Chicago Bridge & Iron Works.

In order to participate in the competition, it is necessary to make formal application to the professional adviser, Albert M. Saxe, 430 North Michigan Ave., Chicago, Ill., on or before December 1, 1930.

SAN BERNARDINO ROOFERS TO PAY LICENSE FEE

A new roofing ordinance endorsed by contractors of San Bernardino has been submitted to the council of that city with a request for adoption. It would require roofing contractors to pay an annual license fee of \$100 and post a surety bond of \$3000 guaranteeing compliance with the provisions of the ordinance. The penalty proposed is a fine not to exceed \$500, or a jail sentence not to exceed 6 months or both.

Contracts Awarded

Licns, Acceptances, Etc.

BUILDING PERMITS

San Francisco County

1358	Caldwell	Moren	4000
1359	Trowbridge	Young	2000
1360	Regents	Ellenfield	10000
1361	Petty	Callaghan	1000
1362	Anderson	Owner	4500
1363	Besio	Owner	4000
1364	Kelly	Owner	1000
1365	Christensen	Owner	16000
1366	Lang	Owner	6000
1367	Castle	Owner	6400
1368	Langendorf	Barrett	3000
1369	Rudelfinger	Owner	2500
(1370)	Lim	Owner	20000
1371	Hyman	Jacks	4000
1372	Weinstein	Owner	1000
1373	Bothin	Siegrist	2500
1374	Carpenter	Union	2000
1375	Carpenter	Union	1800
1376	Tea Garden	Austin	6000
1377	Wisendunk	Owner	8000
1378	Baldwin	Owner	3000
1379	Barwood	Owner	1200
1380	Erickson	Owner	4000
1381	Godin	Owner	7000
1382	Greenwald	Owner	3500
1383	Hee	Owner	1000
1384	Pyle	Owner	1000
1385	Janssen	Owner	4000
1386	Bucgulak	Owner	1000
1387	Gulmas	Fisher	90000
1388	Anderson	Owner	1200

ADDITION

(1358) 160 14th ST.; addition of two stories to present building.
Owner—J. Caldwell, 160 14th St.
Architect—None.
Contractor—G. R. Moren, 1040 Fulton Street. \$4000

REPAIRS

(1259) 2128 LYON ST.; repair fire damage.
Owner—C. C. Trowbridge, 2128 Lyon.
Architect—E. E. Young, 2002 California St. \$2000

ALTERATIONS

(1360) 801 SUTTER ST.; alterations to apartments.
Owner—Regents of the University of California, Berkeley.
Architect—W. P. Stephenson.
Contractor—D. L. Bienfield, 666 Mission St. \$10,000

ADDITIONS

(1361) 75 PIEDMONT; additions to dwelling.
Owner—Mr. Petty, 75 Piedmont St.
Architect—None.
Contractor—J. Callaghan, 900 Clayton St. \$1000

DWELLING

(1362) E 24th AVE. 191 N Kirkham; one-story and basement frame dwelling.
Owner and Builder—C. Anderson, 140 Granville Way.
Architect—None. \$4500

DWELLING

(1363) S CAYUGA 225 W Rousseau; one-story and basement frame dwelling.
Owner—L. Besio, 439 Lisbon St.
Architect—None. \$4000

ALTERATIONS

(1364) W SANCHEZ 64 N Clipper; alterations for foundations and underpinning.
Owner—M. Kelly, 2434 24th St.
Architect—None. \$1000

DWELLINGS

(1365) E 22nd AVE. 160 N Judah St.; four 1-story and basement frame dwellings.

Owner—H. Christensen, 1422 27th Ave.
Architect—None. \$16,000

DWELLING

(1366) N ROCKWAY 278 W Laguna Honda; one-story and basement frame dwelling.
Owner—Lang Realty Co., 39 Sutter St.
Plans by Owner. \$6000

DWELLINGS

(1367) ALEMANY BLVD. 78 E Admiral Ave.; two 1-story and basement frame dwellings.
Owner and Builder—Castle Bldg. Co., 830 Market St.
Architect—None. \$6400

LOADING ROOM

(1368) S GOLDEN GATE AVE. bet. Webster and Fillmore Sts.; one-story class C loading room.
Owner—Langendorf United Bakeries, 1160 McAllister St.
Engineer—Ellison & Russell, Pacific Building.
Contractor—Barrett & Hilp, 918 Harrison St. \$3000

SHOP

(1369) N NATOMA 34 E Russ St. One-story Class C shop.
Owner—Radelfinger Bros., 234 4th St., San Francisco.
Architect—None. \$2500

ALTERATIONS

(1370) NO. 823 GRANT AVE. Alterations to rooming house.
Owner—Lim Shee Dick, % E. R. Siegrist, 604 Mission St., S. F.
Architect—C. E. J. Rogers, Phelan Bldg., San Francisco. \$20,000

ALTERATIONS

(1371) NO. 74 THIRD. Alter hotel.
Owner—Hyman Bros., % Hyman & Appleton, 68 Post St., S. F.
Architect—Hyman & Appleton, 68 Post St., San Francisco.
Contractor—Jacks & Irvine, 74 New Montgomery St., San Francisco. \$4000

GAS STATION

(1372) NE 36th AVE. and Vicente; one-story steel frame gas station.
Owner—J. Weinstein, Inc.
Architect—None. \$1000

ALTERATIONS

(1373) 612 MISSION ST.; alterations to loft.
Owner—Bothin Real Estate Co., 604 Mission St.

CAPITAL CITY TILE COMPANY

J. C. PALEN
Manager

914 Seventh Street

Sacramento - - - California

Architect—J. Linden, 604 Mission St.
Contractor—F. R. Siegrist, 604 Mission St. \$2500

SERVICE STATION

(1374) S COR LAGUNA HONDA and Plaza; one-story class C service station.
Owner—E. Carpenter.
Plans by Builder.
Contractor—Union Oil Co., 1071 Mills Bldg. \$2000

SERVICE STATION

(1375) S LAGUNA HONDA & Plaza; one-story frame service station (no gasoline).
Owner—E. Carpenter.
Plans by Builder.
Contractor—Union Oil Co., 1071 Mills Bldg. \$1800

ALTERATIONS

(1376) S PACIFIC 137 W Sansome; alterations to warehouse.
Owner—Tea Garden Products Co.
Plans by Builder.
Contractor—Austin Co. of California, 720 Ray Bldg., Oakland. \$6000

DWELLINGS

(1377) W CAYUGA 320 S Santa Rosa; two 1-story and basement frame dwellings.
Owner—A. A. Wisendunk, 1625 San Jose Ave.
Plans by B. K. Dobkowitz, 425 Montecrey Bldg. each \$4000

GOLF OFFICE, ETC.

(1378) E LARKIN 70 S Geary; one-story class C golf office, etc.
Owner—C. A. Baldwin, 236 Juanita Way.
Architect—None. \$8000

ALTERATIONS

(1379) SE GREEN and Laguna; alterations to dwelling.
Owner—D. Barwood, 1859 Green St.
Architect—None. \$1200

DWELLING

(1380) E 34th AVE. 275 S Judah St.; one-story and basement frame dwelling.
Owner—Erickson Bros., 1863 8th Ave.
Architect—None. \$4000

DWELLINGS

(1381) N MANGLES 400 E Foerster; two 1-story and basement frame dwellings.
Owner and Builder—G. V. Godin, 586 Monterey Bldg.
Plans by B. K. Dobkowitz, 425 Montecrey Bldg. each \$3500

STORE

(1382) N IRVING 82 E 27th Avenue; one-story frame store.
Owner—A. M. Greenwald, Mills Bldg.
Plans by A. J. Mazurette, 805 Leavenworth St. \$3500

ALTERATIONS

(1383) N JACKSON 100 W Stockton; alterations for (8) apts.
Owner—A. Hee, 830 Jackson St.
Architect—None. \$1000

ALTERATIONS

(1384) 1919 PALOU; alterations and additions.
Owner—Mrs. F. S. Pyle, 1919 Falou.
Architect—None. \$1000

DWELLING

(1386) W 21st AVE. 175 N Geary St.; one-story and basement frame dwelling.

Owner—E. A. Janssen, 811 Hearst Bldg.
Architect—None. \$1000

ALTERATIONS
(1385) NE CASTRO and Army Sts.; alterations for two flats,
Owner—G. Bugulak, 1803 Folsom St.
Architect—None. \$1000

APARTMENTS
(1387) NE FAIR OAKS and 25th St.; six-story and basement class C (36) apartments.
Owner—V. Gullmes, 1203 Guerrero St
Engineer—J. M. Smith, 251 Kearny St.
Contractor—P. C. Fisher, 1122 Noe St.
\$90,000

ALTERATIONS
(1388) 749 MOUTRIE ST.; alterations and additions to dwelling.
Owner—E. A. Anderson, 1177 DeHaro.
Architect—None. \$1200

BUILDING CONTRACTS

San Francisco County

No.	Owner	Contractor	Amt.
213	Odd Fellows	Young	3320
214	Hyman	Jacks	5119
215	Hurley	Hamill	2245

PLASTER WORK
(213) SW MARKET and 7th Sts, 75x 140-ft.; Odd Fellows Bldg.; tinting, painting and repairing plaster, etc.

Owner—Odd Fellows Hall Assn.
Superintendent—Henry Jacks.
Contractor—Young & Ross.
Filed Oct. 16, '30. Dated Oct. 15, '30.
1st of each month.....75%
Usual 35 days.....25%
TOTAL COST, \$3320

Bond, \$3220. Sureties, American Bonding Co. Limit, 35 days.

ALTERATIONS
(214) 74 THIRD ST., bet. Mission and Stevenson; alterations to building.
Owner—Hyman Bros. Co., Inc., care Hyman & Appleton, 68 Post St.
Architect—S. L. Hyman and A. Appleton, 68 Post St.

Contractor—Jacks & Irvine, 74 New Montgomery St.
Filed Oct. 18, '30. Dated Oct. 17, '30.
Fifth of each month.....75%
Usual 35 days.....25%
TOTAL COST, \$5119
Limit, 30 days. Plans and Spec. filed.

ALTERATIONS
(215) SW WILDER 335-773 SE Diamond; alterations and repairs to building.

Owner—J. J. Hurley, 239 Cotter St.
Architect—None.
Contractor—Thos. Hamill, Inc., 6140 Geary St.
Filed Oct. 21, '30. Dated Oct. 1, '30.
Concrete work done.....\$561.25
Carpenter work completed.....\$61.25
Work completed.....\$61.25
TOTAL COST, \$2245

COMPLETION NOTICES

San Francisco County

Recorded	Accepted
Oct. 16, 1930—W TWENTY-NINTH Ave 175 N Moraga 25xW 120. Edwin S White to whom it may concern.....	
Oct. 16, 1930—2383-85-87-89 BUSH ST. J and C Murray to W O Purdy.....	October 14, 1930
Oct. 16, 1930—ALL LOT 20 PTN LOT 21 Blk 6965A Sub No 1. Gexeva Terraces desc'd; W curved line Seneca Ave and NW line lot 20 S 34-8 SW 131-201 NW 22-5 NE 134-282 to beg; ptn lot 24 all lot 25 blk 6965A Sub No 1 Gexeva Terraces desc'd; Cong at pt on W curved line Seneca Ave dist 23-2 S from	

N line lot 24 S 34-8 W 93-507 NW 29-006 E 107-655 to beg. Henry & Hazel Stoneson to whom it may concern.....October 15, 1930
Oct. 15, 1930—LOT 21 BLK 6801 and lot 22 Blk 6801, map Castle Manor. G W Morris to whom it may concern.....October 10, 1930
Oct. 15, 1930—SW EDDY and Polk 123-6x137-6. M E Burke to C Anderson.....October 11, 1930
Oct. 15, 1930—S FILBERT 200-101. E Scott S 137-6 x E 37-1/4. G Bacgalupi to De Luca & Son.....October 9, 1930
Oct. 15, 1930—NW MONTGOMERY and Summer N 43-6 W 56-9 S 6 W 43-3 N 21-6 W 34-6 S 59 N 134-6. The Lurie Co to Cahill Bros.....October 14, 1930

Oct. 16, 1930—NO. 22 AND 24 BERNARD ST. R A Puchen to whom it may concern.....Oct. 16, 1930
Oct. 16, 1930—LOT 20 BLK H, Sunset Heights. Leo C and Rose S McCann to Clyde F McCann.....October 15, 1930

Oct. 16, 1930—175 FT. S RIVERA on W Twenty-seventh Ave. Duncan B MacDonald to whom it may concern.....Oct. 16, 1930

Oct. 16, 1930—THIRD AND NINETEENTH STs. (Associated Oil Co. Serv. Station No. 40). Associated Oil Co to The Dyer Constr Co.....October 8, 1930

Oct. 16, 1930—LOT 8 BLK 16, St. Francis Wood Extension No. 1. Gordon J and Merced Romey to J S Malloch.....Oct. 6, 1930

Oct. 17, 1930—E 22nd AVE 225 S Rivera 25x120. John W and Gertrude Rogers to whom it may concern.....October 10, 1930

Oct. 10, 1930—W KANSAS 82-6 N Mariposa N 25 x W 106. A J Judnich and J Kamble to whom it may concern.....October 9, 1930

Oct. 17, 1930—N LAKE 248-96 W 30th Ave W 153-96 E 106-88 S 105-50. Harry B Allen Inc to Jacks and Irvine, E Sugarman.....Oct. 14, 1930

Oct. 17, 1930—CONG 60 E RETIRO E Way from pt dist 350 N Beach N 75-736 SW 53-7 SE 51-11 1/2. S Steinauer to whom it may concern.....October 17, 1930

Oct. 17, 1930—E RETIRO WAY 350 N Beach N 11-11 1/2 NE 33-11 1/2 SE 51-11 1/2 W 60. S Steinauer to whom it may concern.....October 17, 1930

Oct. 18, 1930—E GILBERT ST 290 N Brannan St 80x25. J M Piconi to whom it may concern.....October 18, 1930

Oct. 18, 1930—SE SAN JOSE AVE 408-74 NE Ocean Ave NE 25-2 SE 128-6 NW 25 NW 116. M T Struthers to G J Conway.....Oct. 18, 1930

Oct. 18, 1930—SW PARADISE AVE 31-41 SE Elk St SE 50-8 S 19-2 1/2 04" W 105-80 N 70-35 56" W 50 N 19-2 1/2 04" E 102-88. E Peterson to whom it may concern.....October 18, 1930

Oct. 18, 1930—NW MARKET ST 154-51 S W Taylor ST SW 153-75 N 181-75 E 97-6 x S 54-1 1/2 SE 46-54. Ellanor H Doe and Marguerite Doe Courtney and Arthur F Rousseau to whom it may concern.....October 15, 1930

Oct. 18, 1930—N JUDAH ST 32-5 E 154-6 E 25 x N 100. Andrew D and Eugenia Cuneo to John B McCarthy.....October 16, 1930

Oct. 17, 1930—E 29th AVE 250 S Rivera 25x120. Carl and Fred Gellert to whom it may concern.....October 17, 1930

Oct. 17, 1930—W HYDE 107-4 North Golden Gate Ave N 30 x W 137-6. Theo Ruls to P Sartorio.....October 16, 1930

Oct. 21, 1930—NW JEFFERSON & Divisadero W 81-3xN 70. Viggo and Christine Rasmussen to whom it may concern.....Oct. 21, 1930

Oct. 20, 1930—NO. 45 FIFTH AVE.

M Birdsall to whom it may concern.....Oct. 9, 1930
Oct. 20, 1930—SE FORTY-FOURTH Ave and Kirkham St E 90x3 100. S F Home Bldg Co to whom it may concern.....Oct. 20, 1930
Oct. 20, 1930—E NINTH AVE 125 N Noriega N 25 E 120 S 25 W to beg. H S Klingasport to whom it may concern.....October 20, 1930
Oct. 20, 1930—NO. 2121 THIRD ST. Seaside Oil Co to The Austin Co.....October 2, 1930
Oct. 20, 1930—E TOCOCOLA AVE 30 N Lathrop Ave N 30x6 100. Wm H Grolin to whom it may concern.....October 20, 1930
Oct. 20, 1930—S BLANKEN AVE 100 E Tocoloma Ave E 37-6xS 100. Wm H Grolin to whom it may concern.....October 20, 1930
Oct. 20, 1930—PROPERTY NOT described. Hattie Tillman to whom it may concern.....Oct. 16, 1930
Oct. 20, 1930—N JEFFERSON 39-6 W Broderick W 24xN 68-9. Louis Franceschl to whom it may concern.....Oct. 17, 1930

LIENS FILED

San Francisco County

Recorded	Amount
Oct. 17, 1930—W THIRD A E 224-9 N Geary N 25-9 1/2 W 120. S P Dal Porto vs John Daly.....	\$223.24
Oct. 15, 1930—SW FULTON AND Divisadero S 137-6 W 92 N 48-6 W 45-6 N 89 E 137-6. E M Hundley vs E J Brown, Shell Oil Co, L H and H Moise, Tios T Cox.....	\$430.70
Oct. 20, 1930—SE MISSION 100 NE Russia Ave NE 100 x SE 108-6. J H McCallum vs J Hill, A B and V B Frank.....	\$178.62
Oct. 20, 1930—135 NAPLES ST. W H Meyers vs A and Jane Doe Costantino.....	\$52
Oct. 20, 1930—S VALLEJO ST. & Columbus Ave SE 141-4 1/2 N 105-8 1/2. John Cassaretto vs M E Spiro and California Studios.....	\$21.25
Oct. 20, 1930—W HAMPSHIRE ST 162-6 S Mariposa St S 100 x W 200. R H Harnis vs Sunset Scavenger Corp, Inc.....	\$1000
Oct. 21, 1930—SE MISSION 100 NE Russia Ave NE 100xSE 108-6. Excelsior Builders Supply Co, \$203.35; G Bianchini, \$48.50 vs John Hill and Ambrose B and Viola B Frank.....	
Oct. 21, 1930—SW PACIFIC AVE & Buchanan W 62-6xS 127-8 1/2. Leo Cooper (as Cooper Electric Co) vs Isaac and G Epp and I Epp; Leo and Louis Epp (as I Epp & Son).....	\$203.54
Oct. 22, 1930—NE SENECA AVE 50 NW Mission NW 43 x NE 50 Blk 1 Oscar Heyman and Brother Sub West End Map No 1. Henry Dissmeyer as Acme Roofing Co to E Evangelisti and M E Miraglia.....	\$195

RELEASE OF LIENS

San Francisco County

Recorded	Amount
Oct. 18, 1930—W PLYMOUTH AVE 50 N Montana N 25 x W 75 J L Ash & Co to C W Wlder, Veterans Welfare Board.....	
Oct. 17, 1930—N SAN RATEO AVE W San Diego Ave W 78 x N 96-51. California Const Co to J T Casey.....	\$500
Oct. 17, 1930—NE APPLETON AVE 52-3 1/2 SE Mission SE 39 x NE 24 Blk 1 Fair's Sub Holly Park Tract. The Tozer Co, Liberty Mill and Cabinet Co, F G Norton & Sons, Jas E Lennon Lime & Cement Co Stura Bros, National Sheet Metal Wks (Sam Leib) and Ginsberg Tile Co to Ernest Watson.....	

BUILDING PERMITS

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
1309	Brown	Owner	3350
1310	Con Motor	Wierk	4000
1311	Imp Electric	Owner	2500
1312	Lee	Waldman	6000
1313	Standard	Independent	1750
1314	Wildner	Fisher	3250
1315	Franzen	Owner	4000
1316	Carlisle	Abdon	1400
1317	Woodburn	Owner	8000
1318	Monez	Owner	3350
1319	California	Owner	2000
1320	Lagomarsino	Nunes	3800
1321	Williams	Cone	5000
1322	Kieny	Haulman	2000
1323	Dowling	Owner	3500
1324	Pegans	Owner	1000
1325	City of Alameda	Owner	1400
1326	Fisher	Owner	1000
1327	Rose	Royal	1500
1328	Salem	Westlund	7920
1329	Watkins	Owner	4000
1330	Klein	Owner	5400
1331	Bank Italy	Owner	1500
1332	Dante	Olson	1800
1333	Francis	Duerr	3100
1334	Griffiths	Owner	2700
1335	Grunewald	Owner	6000
1336	Magoon	Hazen	1200
1337	Hammerberg	Owner	4000
1338	Jones	American	1475
1339	McCord	Owner	2100
1340	Jensen	Owner	7000

DWELLING

(1309) DETROIT ST. 176 W Atlas Ave., **OAKLAND**; 1-story 5-room dwelling and garage.
Owner & Builder—Henry Brown, 1387 E 32nd St., Oakland.
Architect—None. \$3350

ADDITION

(1310) EAST B ST. 500 N 7th St., **OAKLAND**; addition to warehouse.
Owner—Con. Motor Transportation Co. B St., Oakland.
Architect—Roper & Gill, Bldrs. Exchange, Oakland.
Contractor—Nick Wierk, 1560 Alice St., Oakland. \$4000

FACTORY

(1311) 2228 MYRTLE ST., **OAKLAND**; two-story brick factory.
Owner and Builder—Imp. Elec. Sign Co., 2228 Myrtle St., Oakland.
Architect—Miller & Warnecke, Financial Center Bldg., Oakland. \$2500

DWELLING

(1312) SW COR. 12th AVE. and E 22nd St., **OAKLAND**; 1½-story 7-room dwelling.
Owner—Park Lin Lee.
Architect—None.
Contractor—A. E. Waldman, 331 17th St., Oakland. \$6000

SERVICE STATION

(1313) NW COR SEVENTH and B Sts., **OAKLAND**; one-story steel service station and one-story steel comfort station.
Owner—Standard Oil Co., San Francisco.
Architect—None.
Contractor—Independent Iron Works, 1824 Chase St., Oakland. \$1750

DWELLING

(1314) E 106th AVE. 100 S Hollywood, **OAKLAND**; one-story five-room dwelling and 1-story garage.
Owner—Albert Wilder, 109th Avenue, Oakland.
Contractor—Jas. G. Fisher, 3670 Lily St., Oakland. \$3250

RESIDENCE

(1315) NO. 1605 DELAWARE ST., **BERKELEY**. One-story 6-room 1-family frame residence.

Owner—Erick M. Franzen, 2435 Bonar St., Berkeley.
Architect—W. Holm, 1034 Carlton St., Berkeley. \$4000

ALTERATIONS

(1316) NO. 35 SIERRA AVE., **PIEDMONT**. Alterations.
Owner—B. M. Carlisle, Premises.
Architect—None.
Contractor—O. F. Abdon, 754 60th St., Oakland. \$1400

RESIDENCE

(1317) NO. 214 PALA AVE., **PIEDMONT**. Two-story 7-room frame residence and garage.
Owner—P. E. Woodburn, 624 Prospect St., Piedmont.
Architect—None. \$8000

DWELLING

(1318) NO. 1384 CLEMENS ROAD, **OAKLAND**. One-story five-room dwelling.
Owner—A. H. Monez, 4350 Bridgeview Drive., Oakland.
Architect—None. \$3850

TABERNACLE

(1319) SW BROADWAY and Hawthorne, **OAKLAND**. One-story Tabernacle.
Owner—California Conference of S. D. A., 537 25th St., Oakland.
Architect—None. \$2000

RESIDENCE

(1320) NO. 1650 PARK ST., **SAN LEANDRO**. Five-room and full basement frame and stucco residence.
Owner—B. Lagomarsino, Premises.
Architect—None.
Contractor—A. S. Nunes, 37 Castro St., San Leandro. \$3800

ALTERATIONS

(1321) NO. 1712 BROADWAY, **OAKLAND**. Alterations and additions.
Owner—A. William, Bowling Drive and Country Club Road, Oakland.
Architect—Edward T. Foulkes, 357 12th St., Oakland.
Contractor—W. C. Cone, 1744 Broadway, Oakland. \$5000

ADDITIONS

(1322) NO. 2608 BUENA VISTA AVE., **ALAMEDA**. Additions to present home.
Owner—L. L. Kieny, Premises.
Architect—None.
Contractor—P. R. Haulman, 1243 Broadway, Alameda. \$2000

DWELLING

(1323) NO. 2805 BAY ISLAND AVE., **ALAMEDA**. One-story five-room frame and stucco dwelling.
Owner—S. J. Dowling, 2801 Clay St., Alameda.
Architect—None. \$3500

ADDITIONS

(1324) NO. 1209 EAGLE AVE., **ALAMEDA**. Additions to present home.
Owner—M. E. Pagans, Premises.
Architect—None. \$1000

METAL STEPS

(1325) SANTA CLARA and Willow Sts., **ALAMEDA** Haight School). Contract metal steps in case of fire.
Owner—City of Alameda Board of Education.
Architect—None. \$1400

ADDITION

(1326) 751 TRESTLE GLEN ROAD, **OAKLAND**; addition.
Owner and Builder—H. Fisher, 751 Trestle Glen Road, Oakland.
Architect—None. \$1000

ALTERATIONS

(1327) NW COR. 38th and GROVE Sts., **OAKLAND**; alterations.
Owner—C. P. Rose, 774 Trestle Glen Road, Oakland.
Architect—None.
Contractor—Royal Show Case Co., 759 McAllister St., San Francisco. \$1500

HOME

(1328) SE 29th ST. 500 E 23rd Ave., **OAKLAND**; 2-story 50-room concrete home.
Owner—Salem Lutheran Home Assn., Inc., 2361 E 29th St., Oakland.
Architect—H. H. Gutterson, 526 Powell St., San Francisco.
Contractor—F. J. Westlund, 354 Hobart St., Oakland. \$79,294

DWELLING

(1329) N MT. BLVD. 350 W Thorn Road, **OAKLAND**; one-story five-room dwelling.
Owner and Builder—G. Watkins, 1634 Mt. Blvd., Oakland.
Architect—None. \$4000

RESIDENCE

(1330) 235 PARK VIEW, **PIEDMONT**. One-story 6-room frame residence and garage.
Owner—Matthew Klein, 5964 Channing St., Oakland.
Architect—None. \$5400

ALTERATIONS

(1331) 1742 FRANKLIN ST., **OAKLAND**; alterations.
Owner—Bank of Italy, 12th & Broadway, Oakland.
Architect—H. A. Minton, 550 Montgomery St., San Francisco. \$1500

ALTERATIONS

(1332) 508 MYRTLE ST., **OAKLAND**; alterations.
Owner—Dante Bakery, 928 5th St.
Architect—None.
Contractor—H. Olson, 1212 Dwight Way, Berkeley. \$1300

DWELLING

(1333) W 66th AVE. 300 NE 14th St., **OAKLAND**; one-story six-room dwelling and 1-story garage.
Owner—John Francis, 1305 Linden St., Oakland.
Architect—None.
Contractor—F. C. Duerr, 2789 68th Ave., Oakland. \$3100

DWELLING

(1334) W 50th AVE. 200 S Vicksburg Ave., **OAKLAND**; one-story five-room dwelling.
Owner and Builder—Thomas Griffiths, 4601 Walnut St., Oakland.
Architect—None. \$2700

DWELLING

(1335) SW COR. ROSS ST. and Shafter Ave., **OAKLAND**; two-story 6-room dwelling.
Owner and Builder—F. Grunewald, 14 Roslyn Court, Oakland.
Architect—None. \$6000

GARAGE

(1336) 5750 BOND ST., **OAKLAND**; one-story tile garage.
Owner—E. D. Magoon, 1967 Courtland Ave., Oakland.
Architect—None.
Contractor—Perry J. Hazen, 237 Bellevue Drive, San Leandro. \$1200

RESIDENCE

(1337) 720 HILLDALE AVE., **BERKELEY**; one-story 6-room 1-family frame residence.
Owner—Albert Hammerberg, 2340 Le Conte Ave., Berkeley.
Architect—None. \$4000

ALTERATIONS

(1338) 2175 SHATTUCK AVENUE, **BERKELEY**; alterations.
Owner—Herbert Jones, Berkeley.
Architect—None.

Contractor—American Woodworking Corp., 2800 20th St., San Francisco. \$1475

DWELLING
(1339) W DAVENPORT AVE. 80 N Kapham, **OAKLAND**; one-story 4-room dwelling and 1-story garage. Owner & Builder—J. A. McCord, 3458 Davis St., Oakland. \$2100
Architect—None.

APARTMENTS
(1340) N 62nd St. 100 W College Ave., **OAKLAND**; three-story 84-room apartments. Owner & Builder—A. Jensen, 4256 Suter St., Oakland. Plans by Harry K. Jensen, 354 Hobart St., Oakland. \$10,000

BUILDING CONTRACTS

ALAMEDA COUNTY

Contractor	Amount
121 Williams	Cone 4605
122 Henry	Derry 8750

REMODELING
(121) 1712 BROADWAY, Oakland; remodeling store building. Owner—Andrew Williams, Powling Drive and Country Club Rd., Oakland. Architect—Edw. T. Foulkes, 357 12th St., Oakland.
Contractor—W. C. Cone, 1744 Broadway, Oakland.
Filed Oct. 18, '30. Dated Oct. 17, '30. When completed.....75%
Balance usual 35 days.
TOTAL COST, \$4605
Bond, \$2303. Sureties, American Security Co. of N. Y. Limit, 35 days. Plans and Spec. filed.

RESIDENCE
(122) SW COR. OAKS PLVD and Arbor Drive, San Leandro; general construction on 2-story frame and stucco residence and garage. Owner—A. W. Henry, 1326 E 14th St., San Leandro. Architect—Irwin M. Johnson, 2215 7th Ave., Oakland.
Contractor—Derry & Derry, San Leandro.
Filed Oct. 20, '30. Dated Oct. 18, '30. When roof sheathing is on.....\$2187.50
When brown coated.....2187.50
When completed & accepted.....2187.50
Usual 35 days.....2187.50
TOTAL COST, \$8750
Limit, 100 days. Plans and Spec. filed.

COMPLETION NOTICES

Alameda County

Recorded	Accepted
Oct 18, 1930—WASHINGTON Union High School Grounds, Centerville. Board of Trustees of Washington Union High School District of Alameda County to Newark Electric Co., Oct. 15, 1930; George Petersen.....Oct. 15, 1930	
Oct. 18, 1930—LOT 56 St. James Wood, Piedmont. H S and Sue R B Falkell to Louis O Hansson.....October 8, 1930	
Oct. 18, 1930—NO. 10807 BREED Ave., Oakland. James B Grubb to whom it may concern.....October 18, 1930	
Oct. 18, 1930—NO. 2970 NORTHWOOD Drive, Alameda. Hans C Hansen to H C Hansen.....Oct. 17, 1930	
Oct 17, 1930—SW SANTA CLARA Ave 132 SE Union St., Alameda. Warren M Birdsall to Walter H Anderson.....Oct. 10, 1930	
Oct 17, 1930—NO. 526 BALFOUR Ave., Oakland. Cora Read Maynard to A T Spence.....Oct. 15, 1930	
Oct 17, 1930—LOT 10 BLK B-1042 Map of Dimond, Oakland. Mrs.	

Walborg Fredrikke Raynolds to Webb & Whall.....Oct. 13, 1930
Oct 17, 1930—SW ALCATRAZ AVE and Durant St., Berkeley. A M S Pearce to The Melrose Steel Co.....October 17, 1930
Oct. 15, 1930—NO. 203 HILLCREST Road, Berkeley. Milton T Farmer to G H Wendt.....Oct. 8, 1930
Oct. 15, 1930—NO. 21 HONDA AVE., Berkeley. Earle R Converse to whom it may concern.....Oct. 15, 1930
Oct. 16, 1930—LOT 14, Cherry Manor Tract, San Leandro. A F Hanson and L M Mumford to whom it may concern.....Oct. 10, 1930
Oct. 16, 1930—LOT 24, Cherry Manor Tract, San Leandro. A F Hanson and L M Mumford to whom it may concern.....Oct. 10, 1930
Oct. 16, 1930—NO. 10601 BREED Ave., Oakland. C W Griffith to C W Griffith.....Oct. 15, 1930
Oct. 15, 1930—PTN LOT 21, La Loma Tract, Berkeley. Frank and Ruth Howard Pennell to James L Rich.....October 14, 1930
Oct 15, 1930—12th and CLAY STS, Oakland. Athens Athletic Club to The Dyer Construction Company.....October 14, 1930
Oct 21, 1930—LOT 47, Ardmore, San Leandro. Wm E Reed and J H Schmidt to whom it may concern.....October 18, 1930
Oct 21, 1930—ADJ to ppty of Mrs Elise Marshall, State Highway bet Hayward and Niles. Dept of Public Works, Div of Highways, State of California to Mrs Elise Marshall.....October 14, 1930
Oct 21, 1930—PTN LOTS 1 and 2 Blk O, Fruitvale Blvd Tract, Oakland. Thos D Fisher to Self.....October 20, 1930
Oct 21, 1930—SITE OF BEST Bldg and Theatre adj in San Leandro on E 14th St. The Bank of California N A trustee under the will of Daniel Best, decd, to George Petersen.....October 16, 1930
Oct 21, 1930—PTN OF a 19-39 acre tract of land conveyed by deed by Isaac N Fassett to Wm Angus Oct 11, 1906 and recd in Vol 1234 pp 327, Records of Alameda Co. Jos A Reissacker to whom it may concern.....October 15, 1930
Oct 21, 1930—894 PARAMOUNT Rd, Oakland. Frances E and J R Armstrong to whom it may concern.....October 21, 1930
Oct 21, 1930—4507 DAVENPORT Ave, Oakland. W L Felsch to P R Haulman.....October 19, 1930
Oct 20, 1930—3801 GROVE ST, Oakland. Frances E Rose to Royal Show Case Co.....October 18, 1930
Oct 20, 1930—S DAKOTA ST 340 ft E of Laurel Ave, Oakland. Geo T Roberts to J A McCord.....October 20, 1930

LIENS FILED

Alameda County

Recorded	Amount
Oct 21, 1930—E BROADWAY 101 ft N of 14th St, Oakland. S Kulchar as S Kulchar & Co vs Syndicate Bldg Co, Hamilton Murdock \$3016.30	
Oct 21, 1930—NE LINE of Right of	

Way of Central Pacific Railroad Co 385 ft SE of 54th Ave, Oakland Gladding, McLean & Co vs Sutter Co-operative Growers, Inc. A A Wise as American Machine Co.....\$19
Oct 21, 1930—LOT 7 BLK 8, Daley's scenic park, Berkeley. J W Neil, sen vs C G and Henry Tweed.....\$30
Oct. 18, 1930—LOT 12 BLK 1174, Coggeshall Tract, Emeryville. V G Electric Co vs Solomon Garfinkle; George Bruno; Ed Carter and C E Pugh.....\$417.69
Oct. 17, 1930—INTERSECTION OF N line of County Road leading from Centerville to Irvington and a private road known as Solito Lane about 1 1/2 miles SE of Centerville. A E and Burt Duer vs Joe S Perry.....\$791.25
Oct. 16, 1930—NO. 1534 MORTON St., Alameda. Eureka Mill & Lumber Co vs H A Copf.....\$141.65
Oct 10, 1930—LOT 19 BLK 3, Fruitvale Garden Farms, Oakland. A Cardoni vs Vincent Glannoni, S J Viganego.....\$1075
Oct 15, 1930—LOT 12, Coggeshall Tract, Emeryville. Tilden Lumber Co vs Solomon Garfinkel and C E Pugh.....\$162.24

RELEASE OF LIENS

Alameda County

Recorded	Amount
Oct. 6, 1930—LOTS 17 AND 18 and Ptn Lot 14 Blk 158 of K's Map of Oakland. B Simon Hardware Co to Levy Estate Co; Joe Triberti; Frank Massara and James McLaughlin.....\$110.61 Oct. 16, 1930—LOT 354 Unit C, Oak Knoll, Oakland. Zenith Mill and Lumber Co to J K Hoey; H L Hoey and Henning Carlson.....\$863.55 Oct 15, 1930—LOTS 17 and 18 and ptn lot 14 blk 158, Kellersberg's map of Oakland. Tilden Lumber Co to Joe Triberti, Frank Massero, Triberti & Massero, Levi Estate Co, Jas L McLaughlin Co.....\$330.35	

BUILDING CONTRACTS

SAN MATEO COUNTY

RESIDENCE
N VERA AVE 155 E Fulton St., Redwood City. All work for one-story frame and stucco residence. Owner—Pietro Pariani
Architect—None.
Contractor—Joseph Meconi.
Filed Oct. 14, '30. Dated Oct. 14, '30. Roof on.....\$1600
Brown coated.....1600
Completed.....1600
TOTAL COST, \$6393
Bond, none. Limit, Oct. 16, 1930. Forfeit, none. Plans and specifications filed.

ALTERATIONS

NO. 906 BURLINGAME AVE., Burlingame. Alterations and additions to summer house. Owner—Morgan A. Gunat, 2756 Vallejo St., San Francisco.
Architect—Henry H. Guttererson, 526 Powell St., San Francisco.

Member Insurance Brokers' Exchange

FRED H. BOGGS

INSURANCE

490 GEARY STREET

Phone FRanklin 9400

San Francisco

Contractor—Clinton-Stephenson Construction Co., Monadnock Bldg., San Francisco.
Filed Oct. 14, '30. Dated Oct. 3, '36.
As work progresses..... 90%
Usual 35 days..... Balance
TOTAL COST, \$4115

Bond, none. Limit, 55 days. Forfeit, none. Plans and specifications filed

RESIDENCE, \$4000; Lot 8 Blk 21, S Grant St. owner and builder, Lengfeld & Olund, 145 El Camino, San Mateo.

RESIDENCE, \$5000; Lot 30 Blk 2A Seville Way; owner and builder, Meyer Bros.

STORE Bldg., \$8900; E 40 ft. of Lot 10 3rd Ave.; owner, Stelling and Gould, 155 Montgomery St., San Francisco; contractor, Clinton Stephenson Co., Monadnock Bldg., San Francisco.

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded Accepted
Oct. 16, 1930—LOT 11, Hillsborough Terrace, W E Stanley to Oscar Cavanagh.....Oct. 14, 1930
Oct. 16, 1930—PART LOT 6 BLK 125, South San Francisco. S Nieri to Antonio Pianca.....Oct. 15, 1930
Oct. 16, 1930—LOT 55 BLK 2, Jefferson Park, San Mateo. Castle Building Co to Henry Horn.....October 7, 1930
Oct. 16, 1930—LOTS 3 AND 4 BLK 17, Lomita Park, H C Andrews to whom it may concern.....October 13, 1930
Oct. 16, 1930—LOT 21 BLK 7, Central Park, San Mateo. Louis Poss to whom it may concern.....October 8, 1930
Oct. 17, 1930—LOT 21 BLK 5, San Mateo City Homestead. Peter H Ewing to whom it may concern.....October 15, 1930
Oct. 17, 1930—PART LOTS 25 AND 26, Gray Tract, San Mateo. Peter Descristofer to whom it may concern.....October 17, 1930
Oct. 18, 1930—LOT 20 BLK 3, Metropolis Homestead Tract, San Mateo. Harry Walters to whom it may concern.....Oct. 17, 1930
Oct. 18, 1930—LOT 28 BLK 44, Easton. Harry R Ranales to whom it may concern.....Oct. 18, '30
Oct. 2, 1930—HOWARD ROAD 1.899 Acres Land, Hillsborough. R Brace Carter to D B Gladstone.....October 1, 1930
Oct. 3, 1930—LOT 22 BLK 21, Crocker Estate Tract, San Mateo. Frank L McAfee to whom it may concern.....Oct. 1, 1930
Oct. 4, 1930—LOT 31 BLK 16, Burlingame Grove. Edward R Martin to O C Moroney.....Sept. 25, 1930
Oct. 6, 1930—PART LOT 72, School House Extension Homestead Association, San Mateo. P J Olmo et al to A J Dielissen.....Sept. 16, 1930
Oct. 6, 1930—LOTS 22 AND 23 BLK 26 and Lot 18 Blk 3, Jefferson Park, San Mateo. Castle Bldg Co to Henry Horn.....Sept. 30, 1930
Oct. 6, 1930—WOODSIDE. Mortimer Fleischacker et al to Moore & Madsen.....Oct. 6, 1930
Oct. 7, 1930—LOT 14 BLK 22, Crocker Tract, San Mateo. Ellis Szatmary to whom it may concern.....Oct. 6, 1930
Oct. 8, 1930—LOT 24 BLK 7, Edgewood Park, San Mateo. Fred Carlisle to whom it may concern.....Oct. 8, 1930
Oct. 8, 1930—LOT 22 BLK 44, Easton Henry H Rondles to whom it may concern.....Oct. 1, 1930
Oct. 8, 1930—LOT 10 BLK 18, Eagle Hill Addition, San Mateo. George

Moncrieff et al to whom it may concern.....Aug. 3, 1930
Oct. 9, 1930—LOT 6, Woodstock, Hillsborough J H Spamer to G W Williams Co.....Oct. 14, 1930
Oct. 9, 1930—PART LOT 9 BLK 2, Burlingame Hills. Lewis A Cavalier to whom it may concern.....Oct. 9, 1930
Oct. 9, 1930—LOT 32 BLK 22, Belmont. Frederick William Swearingen et al to Frank P O'Brien.....Oct. 7, 1930
Oct. 10, 1930—LOTS 2 AND 3 Tract 3, Greer Lands, Woodside. Whittell Realty Co to E Mills.....Oct. 8, 1930
Oct. 10, 1930—PART LOT 21 BLK 5, Baywood. Edward R Covasco to whom it may concern.....Oct. 9, 1930
Oct. 10, 1930—LOTS 6 AND 7 BLK 20, Lomita Park. Leo Kalkowski et al to Albert Magnuson & Co.....Oct. 9, 1930
Oct. 11, 1930—LOTS 3 AND 4 BLK 3, Nash Tract, San Mateo. Robt F Thomas to M C Ingraham.....Oct. 4, 1930
Oct. 11, 1930—LOT 21 BLK 7, East San Mateo. Ashley S Powers et al to whom it may concern.....October 10, 1930
Oct. 11, 1930—ROUTE 55, 68 SEC A, B, C and D. State of California to San Bruno Feed & Fuel Co.....October 12, 1930
Oct. 11, 1930—LOT 18 BLK 8, Hillcrest. C R Danford to Sam Rosen.....October 9, 1930
Oct. 11, 1930—LOT 10 BLK 48, Lyon & Hoag Subd, Burlingame. M Cohral to whom it may concern.....October 10, 1930
Oct. 11, 1930—LOT 17 BLK 24, Wisconsin Subd, Burlingame. D Houle to whom it may concern.....October 3, 1930
Oct. 14, 1930—LOTS 6 AND 7, University Villa, San Mateo. Joseph B Felez to whom it may concern.....October 13, 1930
Oct. 25, 1930—THIRD AVE, San Mateo. Edgar L Gould et al to Young & Horstmeier.....Oct. 9, 1930
Oct. 15, 1930—LOTS 77 AND 78 Bayshore Highway Tract, San Mateo Planning Mill Co to whom it may concern (2 completions).....Oct. 14, '30
Oct. 15, 1930—PART LOTS 23 AND 24 Blk 18, Baywood. Neil R Donovan to whom it may concern.....October 15, 1930

John Duglish vs Thomas A Cavanaugh.....\$912
Oct. 3, 1930—LOTS 43, 44 AND 45 Blk 5, San Bruno. Burlingame Realty Co vs Hugh Cross et al.....\$158.09
Oct. 3, 1930—LOT 27 BLK 4, Vista Grand. C Schultz vs Harry McDonald.....\$69
Oct. 4, 1930—LOTS 8 AND 9 BLK 3, Central Park, San Mateo. Robt Jones vs C J Driver.....\$165
Oct. 6, 1930—PART LOT 155, San Mateo Park. Wisnom Lumber Co vs Lucien Lebanti et al.....\$265
Oct. 7, 1930—PART LOTS 2 AND 3 Bowie Estate, San Mateo. David J Millar, \$432; San Mateo Planning Mill Co, \$91.20 and \$602.20 vs Thomas Cavanagh.....\$158.09
Oct. 8, 1930—PART LOTS 2 AND 3 Sub of Lot 10, Bowie Estate. Seth Cohn, \$427.95; E P Erwin, \$67.50; J B Henderson, \$129.75; C Garial, \$127.5; J N Otter, \$117.8; R A Houghton, \$1017.90; Ernest Cinnamon, \$740; Harry Lee, \$1005.95; Edward Dozier et al, \$655; Wisnom Hardware Co, \$772.58; G Rognier, \$181; John Grant, \$421; H E Casey, \$985.90; J A Gaffigan, \$170.55; B L De La Cruz, \$385; H Parnell, \$568; Nick Disевич, \$1804.59; San Mateo Feed & Fuel Co, \$424.17; Pacific Mfg. Co, \$3467 vs Thomas A Cavanagh et al.....\$130.27
Oct. 9, 1930—NO. 460 JETER ST., Redwood City. Montgomery Ward & Co vs A Newman.....\$44
Oct. 10, 1930—APPROX. 25 ACRES Land, South San Francisco. Standard Oil Co vs Floyd Anderson et al.....\$32.70
Oct. 10, 1930—LOTS 14 AND 15 BLK 2, Bayview Heights. Malott & Peterson vs S A Smoot et al.....\$374
Oct. 10, 1930—PART LOT 6, East Greenwood. Sudden Lumber Co vs James C Somerville et al.....\$48.84
Oct. 11, 1930—PART LOT 1 BLK 8 Lomita Park, San Mateo Feed & Fuel Co vs A C Brandt.....\$211.70
Oct. 11, 1930—LOT 33 BLK 22, Belmont. San Mateo Planning Mill Co vs Francis P O'Brien et al.....\$490.37
Oct. 14, 1930—LOT 33 BLK 22, Belmont. Wisnom Lumber Co vs Frank P O'Brien et al.....\$212.16
Oct. 15, 1930—LOT 1, Murrell Tract, Menlo Park. Merner Lumber Co vs Sarah Euten et al.....\$84.76
Oct. 15, 1930—LOTS 14 AND 15 BLK 2, Bayview Heights. Judson-Pacific Co vs S A Smoot et al.....\$57.13

LIENS FILED

SAN MATEO COUNTY

Recorded Amount
Oct. 16, 1930—PART BLK 27, Town of San Mateo. San Mateo Planning Mill Co vs Amando Costa et al.....\$1000.04
Oct. 16, 1930—LOTS 14 AND 15 BLK 2, Bay View Heights, San Mateo. Michel & Pfeffer Iron Works vs Martin Peterson et al.....\$374.90
Oct. 16, 1930—PART LOT 6, East Greenwood. L L Wiggins vs Jas C Somerville et al.....\$121.53
Oct. 16, 1930—LOTS 1, 2 AND 3 BLK 11, San Mateo. San Mateo Planning Mill Co vs William S Seadley et al.....\$288.49
Oct. 17, 1930—LOT 33 BLK 22, Belmont. D M Garvey vs Frank O'Brien et al.....\$197.20
Oct. 17, 1930—LOT 23 BLK 22, Belmont. San Carlos Feed & Fuel Co vs Fred Wm Swearingen et al.....\$57.40
Oct. 17, 1930—LOTS 8 AND 9 BLK 3, Central Park, San Mateo. San Carlos Feed & Fuel Co vs Carrie I Davis.....\$490.06
Oct. 3, 1930 — HILLSBOROUGH.

RELEASE OF LIENS

SAN MATEO COUNTY

Recorded Amount
Oct. 18, 1930—LOT 17 BLK 20, Milbrae Highlands. A G Wilkins to Robert B Bowers.....\$50
Oct. 18, 1930—LOCATION NOT Given. George Trallman to Robt B Bowers.....Full
Oct. 18, 1930—LOCATION NOT Given. F Ferrea to whom it may concern.....\$588.86
Oct. 4, 1940 — LOCATION NOT Given. Michael & Pfeffer to Alice M Slemmons.....\$197.20
Oct. 6, 1940 — LOCATION NOT Given. Merner Lumber Co; H J De Vries; D S Lawson; G H Casey; Acme Glass Co; Steve Anderson to P H Banfield.....\$490.37
Oct. 7, 1930—LOTS 43, 44 AND 45 Blk 1, San Bruno. Grandda Tile Co to whom it may concern.....\$158.09
Oct. 10, 1930 — LOCATION NOT

Gliven. Sig J Olafsson et al to whom it may concern.....

BUILDING PERMITS

PALO ALTO

WAREHOUSE, \$1000; 300 Portage St.; Owner, Sutter Packing Co., 300 Portage St., Palo Alto.
RESIDENCE, stucco, \$3700; 721 Wellesley St.; owner, Milton L. Rogers; contractor, E. H. Gibson.
RESIDENCE, stucco, \$5000; 1254 Middlefield Road; owner, J. T. and M. E. Pate, 539 Bryant St., Palo Alto; contractor, P. G. Schmidt.
COTTAGE, rustic, \$...; 570 Lowell Ave. owner, N. K. Easterday.

COMPLETION NOTICES

MARIN COUNTY

Recorded Accepted
Oct 3, 1930—SAN ANSELMO. Victor V Peters to Edward G Jackson. October 3, 1930
Oct 1, 1930—SAN ANSELMO. Everett W Ruhl to whom it may concern. September 26, 1930
Oct 1, 1930. SAN ANSELMO. Everett W Ruhl to whom it may concern. September 26, 1930
Oct 4, 1930—SAN ANSELMO. Chas Service to whom it may concern. October 4, 1930
Oct 4, 1930—ROSS. Helen T Austin to R Leonhart. October 1, 1930

LIENS FILED

MARIN COUNTY

Recorded Amount
Oct 4, 1930—PPTY IN SAN ANSELMO. V Nichelini vs Mr and Mrs H Kemp \$572
Oct 4, 1930—PPTY IN SAN ANSELMO. San Rafael Mill & Lumber Co vs H J Kemp. \$1060.54
Oct 4, 1930—PPTY IN SAN ANSELMO. San Rafael Mill & Lumber Co vs Mr and Mrs H J Kemp. \$861.26
Oct 4, 1930—PPTY IN SAN ANSELMO. V J B Cheda vs Mr and Mrs H J Kemp. \$498.71

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded Accepted
Oct 18, 1930—LOT 4 BLK E, Berkeley Highlands. Alva E Johnson, administratrix Estate of Carl Victor Johnson, deceased to Oscar A Johnson. Sept. 12, 1930
Oct 15, 1930—1 MILE FM WALNUT Creek on main highway between Crest Ave and Castle Hill Road. Rudolph C Post to C E Burks. October 10, 1930
Oct 16, 1930—LOTS 15 and 16 BLK 37, Spaulding-Richmond-Pullman Townsite. J M Petty to Self. October 14, 1930

LIENS FILED

CONTRA COSTA COUNTY

Recorded Amount
Oct 15, 1930—LOTS 7 AND 8 BLK 2, Second Amended Map of Fairview. Louis Rossi vs Pietro Castucci. \$227.50
Oct 15, 1930—LOT 1 BLK F, City of Pittsburg. Pittsburg Sheet Metal Works, \$213; A H Davi, \$400 vs Allard Martin and A Markower
Oct 20, 1930—LOTS 18 AND 19 BLK 88, Amended City of Richmond. E E Higgins (as E H Higgins Co) vs Tony Regolio \$223.55

RELEASE OF LIENS

CONTRA COSTA COUNTY

Recorded Amount
Oct 15, 1930—LOTS 6, 9, 12, 13, 14, 15, 18, 19, 20, 26, 29, 33 and 34 Blk 24, Walls Harbor Center Tet Richmond. C M Goodell to whom it may concern.
Oct 18, 1930—LOT 4 BLK E, Berkeley Highlands. H T Moore to Alva E Johnson, Administratrix Estate Carl Victor Johnson, deceased

COMPLETION NOTICES

SAN JOAQUIN COUNTY

Recorded Accepted
Oct 17, 1930—STOCKTON. Southern Pacific Co to Lewis & Green. October 14, 1930
Oct 15, 1930—STATE HIGHWAY bet South Santa road and East Santa road. Dept of Public Wks. State of California to Heafey-Moore Co. October 7, 1930
Oct 15, 1930—SEC 21 T 2 S R 4E, Tracy. Pacific Gas & Electric Co to W A and A E Johnson as Johnson Brothers. October 4, 1930

LIENS FILED

SAN JOAQUIN COUNTY

Recorded Amount
Oct 15, 1930—E 1/2 of LOT 8, all of lot 10 and the E 1/2 of the W 1/2 of each of lots 15 and 16, blk 12, east of Center St. The E 50 ft of lot 16 blk 12, east of Center St, except the N 1 8-12 ft and S 3 ft thereof. Ptns of lots 15 and 16 in blk 12, east of Center St. The E 7 ft of lot 7 and all of lot 9 in blk 12, east of Center St, except the E 7 in of the N 90 ft of said lot 9; also except the N 4 ft and 3 in thereof, as conveyed to the City of Stockton for additional sidewalk space. The W 1/2 of lot 8; the W 1/2 of W 1-3 of lot 15, and the W 1/2 of the W 1-3 of lot 16, all in blk 12, east of Center St. Charles Scott vs Fox West Coast Theatres \$789.12

COMPLETION NOTICES

SONOMA COUNTY

Recorded Accepted
Oct 14, 1930—EASEMENT nr Michael Conway property. California Water Service Co to Walter Singleton. September 13, 1930
Oct 15, 1930—LOTS 13 and 14 BLK E Subdv No 1, East Guernewood. Keith J and Grace F Neeley to Paul Opykko. October 14, 1930
Oct 15, 1930—402 ON SOUTH SIDE of North St, Healdsburg. Ida F Maguire to W E Lowery. October 6, 1930

RELEASE OF LIENS

SONOMA COUNTY

Recorded Amount
Oct 14, 1930—PTN LOT 3 BLK 2, Guerneville. Henry Hess Co to Gust Butsells, Gus Lewis.
Oct 15, 1930—LOTS 2, 3, 4, 5 and 6 Blk 6, McBeth, Turner & Weeks Subdv, Santa Rosa. L H Strauss to Agnes L McCarthy, and Frank Sealer \$70.83

BUILDING PERMITS

STOCKTON

REMODELING stores, \$1000; No. 133 South El Dorado St., Stockton;

owner, Arata Ternica, Premises, contractor, L. S. Piletz, 1660 W. Acacia Ave., Stockton.

COMPLETION NOTICES

MONTEREY COUNTY

Recorded Accepted
Oct 15, 1930—LOT 28 ON SOUTH side of Market St fmlr Castroville St, Salinas. W H Mintz to Lawrence G Manning. Oct 15, 1930
Oct 17, 1930—LOT 19 1/2 BLK 50, map of Carmel - by the Sea. Ella Vaughn to Samuel Miller. October 14, 1930
Oct 9, 1930—PTN LOT 6 BLK 4 map of Live Oaks Park. George D Patrick to whom it may concern. October 9, 1930
Oct 14, 1930—LOT 10 BLK 155 Carmel Woods. Mabel Fee Dean and Emma Kraft to Ernest S Bliker. October 8, 1930
Oct 14, 1930—LOTS 3 and 4 BLK 114, City of Monterey. Ada Mower Haskell to Newman & Halstead. October 9, 1930

LIENS FILED

MONTEREY COUNTY

Recorded Amount
Oct 8, 1930—LOT 14 BLK 5, map of Lake Terrace Tract In Lot 4 of Rancho Niche. Buen. Harvey Turner vs P M Lehman. \$50

BUILDING PERMITS

SACRAMENTO

RESIDENCE, \$5000; 3931 M St.; owner, Gus Thierry, 805 J St., Sacramento.
ALTERATIONS, \$1600; 1701 Q Street; owner, R. E. Andersen, Marysville; contractor, State Roof Co., 1755 Stockton Blvd., Sacramento.
REPAIRS, general, \$1000; 201 K St.; owner, Broemberg Bros., premises; contractor, D. Tatti, 2116 O St., Sacramento.
REMODEL building, \$39,500; No. 401 L St., Sacramento; owner, Pacific Properties Ltd., Howden Bldg., Oakland; contractor, Max Smith, 500 U St., Sacramento.
GENERAL repairs, \$4500; No 1355 44th St, Sacramento; owner, Earl Langdon, Premises; contractor, F. Maloney, 3172 T St., Sacramento.
MINIATURE golf course, \$1000; No. 2750 Sacramento Blvd., Sacramento miniature golf course; owner, E. H. Faist, 620 23rd St., Sacramento
SERVICE station, \$2000; No. 1501 L St., Sacramento; owner, J. J. Jacobs, 15th and L Sts., Sacramento; contractor, Campbell Construction Co., 800 R St., Sacramento
RESIDENCE, 5-room; No. 2740 43rd St., Sacramento; owner, L. P. Anderson, 2732 43rd St., Sacramento.
RESIDENCE, 5-room, \$3500; No. 1146 Fifty-seventh St., Sacramento; owner, Pat O'Regan, 900 G St., Sacramento; contractor, Frank SHOPS, machine, \$6600; 613 H St.; owner, D. Stanich, 6th and I Sts., Sacramento; contractor, Lindgren & Swinerton, Inc., California State Life Bldg., Sacramento.

COMPLETION NOTICES

SACRAMENTO COUNTY

Recorded Accepted
Oct. 16, 1930—POR. 90.410 ACRE parcel of Gardner Inv Co., Tyler Island. Jewell Gardiner to whom it may concern. Sept. 9, 1930
Richrads, Hagginwood.
Oct 15, 1930—LOT 2057 W T K Tet

24. Annex, Chas G Grosch to whom
It may concern Oct 11, 1930

LIENS FILED

SACRAMENTO COUNTY

Recorded	Amount
Oct. 20, 1930—LOT 185 New Era Park, Sacramento. Carlo Grossi vs San and Vita Guidara.....	\$200
Oct. 4, 1930—LOT 185 New Era Park Sacramento. Frank Queirolo surv. partner of Sacramento Builders Supply Co vs S Guidara.....	\$317.58
Oct. 4, 1930—E 1/4 LOT 2 and whole Lot 4, K. L. 6th and 7th Sts., Sacramento. C E Wilkins (as Wilkins Draying Co) vs Industrial Construction et al	\$400.51

BUILDING PERMITS

FRESNO

GARAGE, \$55,000; 862 Van Ness Ave.; owner, L. C. Wesley, 2027 Mono St., Fresno; contractor, Shields, Fisher & Lake, Pacific Southwest Bldg., Fresno.

DWELLING, \$3200; 3331 Illinois St.; owner and builder, P. A. C. William.

DWELLING and garage, \$2750; No. 2615 Grant St., Fresno; owner & builder, Chas. McKnight & Son.

COMPLETION NOTICES

FRESNO COUNTY

Recorded	Accepted
Oct 14, 1930—VERNALIS. Pacific Gas & Elec Co to Johnson Bros.....	October 4, 1930
Oct 14, 1930—SW 1/4 of N 1/4 Sec 1, 14-19. H M Donabedian to M Man-oogian.....	October 1, 1930
Oct 16, 1930—LOT 28 NW 5 ft of Lot 27 Bk 48, Fresno. M L. Schiena to whom it may concern.....	October 1, 1930
Oct. 18, 1930—REAR 59.4 FT. LOTS 9 to 12, Cooper Addition, Selma John W Baldwin to Andy Nielsen.....	October 11, 1930
Oct 17, 1930—EAST 1/2 of N 1/2 LOT 4 T U 28 29. John and Ella Carabatch to whom it may concern.....	September 24, 1930
Oct 17, 1930—COURTLAND Union High School. Courtland Joint Union High School Dist to whom it may concern.....	October 2, 1930

OFFICIAL PROPOSALS

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received at the office of the State Highway Engineer, Public Works Building, Sacramento, California, until 2 o'clock P. M. on November 12, 1930, at which time they will be publicly opened and read, for construction in accordance with the specifications therefor, to which special reference is made, of portions of State Highway, as follows: Kern County, four timber bridges from seventeen to twenty-one miles west of Wasco (Vi-Ker-33-C), one composed of twelve 19-foot spans, one composed of four 19-foot spans, and two composed of two 19-foot spans each, all on framed bents with concrete footings.

Proposal forms will be issued only to

those Contractors who have furnished a verified statement of experience and financial condition in accordance with the provisions of Chapter 644, Statutes of 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Bids will not be accepted from a Contractor to whom a proposal form has not been issued by the Department of Public Works.

Plans may be seen, and forms of proposal, bonds, contract and specifications may be obtained at the said office, and they may be seen at the offices of the District Engineers at Los Angeles and San Francisco, and at the office of the District Engineer of the district in which the work is situated. The District Engineers' offices are located at Eureka, Redding, Sacramento, San Francisco, San Luis Obispo, Fresno, Los Angeles, San Bernardino and Bishop.

A representative from the district office will be available to accompany prospective bidders for an inspection of the work herein contemplated, and Contractors are urged to investigate the location, character and quantity of work to be done, with a representative of the Division of Highways. It is requested that arrangements for joint field inspection be made as far in advance as possible. Detailed information concerning the proposed work may be obtained from the district office.

No bid will be received unless it is made on a blank form furnished by the State Highway Engineer. The special attention of prospective bidders is called to the "Proposal Requirements and Conditions" annexed to the blank form of proposal, for full directions as to bidding, etc.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS

C. H. PURCELL,

State Highway Engineer.

Dated October 15, 1930

BRITISH LUMBER MARKET CONTINUES DULL

The British lumber trade has shown no improvement in depressed conditions and business has been on very restricted lines, states a cablegram from Acting Commercial Attache Donald Henshaw at London to the Lumber Division of the Department of Commerce.

The demand for Douglas fir has fallen off considerably with ample stocks on hand, a marked decrease in arrivals, and c. i. f. quotations remaining unchanged. Stocks of pine are sufficient for present requirements and prices remain firm. The American hardwood situation is unchanged with stocks still excessive and arrivals moderate. The hardwood freight rates being definitely fixed until the end of the year may have a steadying effect on the market.

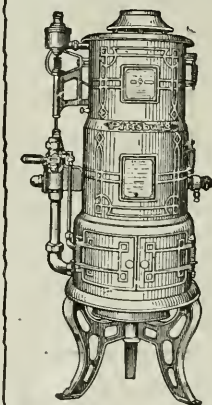
There are signs of activity in the demand for plywood but not sufficiently pronounced to justify further contracts for stock replenishment except, on distinct evidence of an advance in prices, a fair volume of business in Douglas fir plywood has taken place in anticipation of further increase in prices.

IRRIGATION PROPOSED FOR 250,000 ACRES

A resolution has been adopted by the Merced County Supervisors authorizing an election seeking the formation of the West San Joaquin Irrigation District. The project was first proposed in 1920 and is being sponsored by the People's Protection Association.

If organized, the district will be one of the largest irrigation organizations in California, comprising approximately 250,000 acres. The land is located in Merced, Fresno and Stanislaus counties.

The election will be held on December 17.



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SAN FRANCISCO, CALIF., NOVEMBER 1, 1930

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Thirtieth Year, No. 44



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Building Plans for State Institute for Women Are Progressing

Preliminary plans for the proposed California Institute for Women to be erected in Erlie Valley, in the Tehachapi range, Kern county, are being prepared by the State Department of Public Works, Division of Architecture.

The institution will be a corrective prison for women felons, vagrants, and misdeameants.

The trustees of the institution and State Architect George B. McDougall are now considering plans for the first unit of the institution where women are to be rehabilitated rather than kept in strict confinement by walls and armed guards. Some of the 120 women prisoners now at San Quentin and such others as may be convicted of felonies or as narcotic vagrants and misdeameants will be housed in the institution.

Two "cottages," in which will be confined 46 inmates each and an administration hospital building, will comprise the first unit. The cottages will be two-story, concrete structures built around a court. Each building will have its own kitchen and dining room and inmates' room, size 8 by 10 feet. Each room will contain a bed, wardrobe, table and chair. The windows will be escape proof because of a steel sash arrangement cross gridded by heavy frames.

The administration building will accommodate 14 employees and 10 hospital beds besides administrative offices. A new hospital building will eventually be erected, along with a superintendent's home, swimming pool mere cottages and other structures. The total of \$147,000 has been allotted for the cottages, \$91,000 for the administration hospital building, \$10,000 for repairing and furnishing of the existing farmhouse for temporary headquarters; \$40,000 for installation of sewer and water systems and mechanical services, leaving \$12,000 to cover miscellaneous work and contingencies.

The Legislature of 1929 passed a bill which was approved by the governor, appropriating \$475,000 to purchase site and start construction of necessary buildings. The site was purchased in Kern county last June for \$110,000, it consisting of 1680 acres formerly known as the Britte ranch, located nine miles west of Tehachapi. The site has an elevation of 4000 feet.

Trustees of the institution are Mrs. Ernest Wallace of Alhambra, Fred D. Parr of San Francisco, Mrs. Everett B. Latham of Los Angeles, J. Frank Burke of Santa Ana, and Mrs. Ingram B. Slocum of San Francisco.

Two bulletins issued by the Headley Emulsified Products Co., Philadelphia, Pa., deal with waterproofing, damp-proofing and general protective coatings (bulletin 330) and describe an asphalt base aluminum coating (bulletin 420).

Uniform Plumbing Code To Be Drafted

A uniform plumbing code, to be worked out along the lines of the present Uniform Building Code of the Pacific Coast Building Officials' Conference, was proposed by George Grimshaw, city plumbing inspector of Berkeley, at a meeting of the Plumbing Inspectors' Association of California, at the Hotel Oakland, last week.

A committee will be appointed at the next joint meeting of the Southern and Northern Divisions of the association to be held in Fresno in December to draft such a code.

Grimshaw stressed the need of such a code and pointed to the fact that the Uniform Building Code has been adopted by sixty-two cities in the State of California as well as in other cities along the Pacific Coast.

Highway Performance Bond Rate Is Reduced At Portland, Oregon

The Portland, Ore., office of the Fidelity and Deposit Company announces a reduction in bond rates for highway work for the Federal Government, the State of Oregon and various cities and counties. The rates are reduced from $\frac{1}{2}$ to 1 per cent of the contract price.

The new rate will be the basis of bonding highway work by all the various companies represented in Portland. It is said and was officially accepted by the leading bonding organizations October 29. Only the grading work is affected, however, as paving and surfacing has been bonded on a 1 per cent basis for some time. Building bonds are not affected by the change. The new rate, however, will make a big difference to contractors bidding on state and federal highway contracts. Indirectly it will mean a saving to taxpayers, it is pointed out.

Separate classification for state and other highway contracts will be discontinued, the announcements states. All highway construction work including federal, state, county, borough, township and including municipal street paving and streets and highways for private owners will be 1 per cent of the contract price for performance only for any period up to 24 months. Thereafter renewal premium at once-half of 1 per cent per annum on the unfinished work. Performance includes statutory liability for labor and material where that exists—not maintenance.

Maintenance is separately charged for at \$2 per \$1000 per annum in advance, computed on the cost of pavement plus all items required to be maintained for a period greater than 12 months.

Small bridges incidental to highway work and included in highway contract are given the highway classification and rate.

Aftercoolers, for cooling and drying air after it is compressed and before it is delivered to the service pipes, are described in an 8-page folder of the Pennsylvania Pump & Compressor Co., Easton, Pa.

State Registrar Cites "Abandonment Of Contract" in Law

James F. Collins, director of the State Department of Professional and Vocational Standards, has issued the following statement with regard to that section of the Contractors' License Law in the abandonment of contract:

"It will be the policy of the Registrar hereafter in interpreting the paragraph of the Contractors' Registration Law referring to the abandonment of contract, to consider the refusal to pay, or failure to pay the stipulated sum set forth in the contract as compensation for the performance of the work by sub-contractor, as an act in illegal abandonment of the contract made by the general contractor with the sub-contractor.

"In order that such an interpretation may be placed on the paragraph, it will be necessary to show that a definite sum was agreed upon to be paid for the performance of the sub-contractor. It will also be necessary for the complainant to show that the work was completed according to the terms of the contract, and that a demand for payment was made, and either refused, or that the attitude or acts of the defendant were such as would indicate a lack of intention to pay.

"The Registrar in so interpreting the law, assumes that the sub-contractor executed the contract agreeing to perform the specific work set forth in the instrument under the plans and specifications provided, with the expectation of receiving for his work the sum stipulated in the contract and that he looks solely to the general contractor for his pay, and is not a party to any agreement for the limitation of payments to the monies received by the general contractor for the work, unless such special terms are made a part of the contract itself."

CHICO CONTRACTORS PROTEST LICENSE FEE

Contractors of Chico have submitted protests to the city council against the present building licenses as being discriminatory.

They ask that the ordinance be amended in accordance with a plan presented by William Shala, providing all the contractors pay a uniform fee of \$25, general contractors to pay extra fees where more than one phase of carpentry and painting enters into one job.

At a meeting of the city council, the matter

REINFORCED BRICKWORK IN MODERN BUILDING DESCRIBED

By Norman W. Kelch, Associate Member, American Society of Civil Engineers; Secretary-Manager, Clay Products Institute of California.

A more descriptive title to this paper would be "A Brief Commentary on the Practical and Technical Developments of Running True to the Unquestioned Prerogative of Speakers

starting a talk on clay products by beginning with Mr. Nonh and recounting the history of man and brick, I am going to go back only about 50 years to describe the development of what might be considered a new engineering material, composed of one old engineering material, brick, and two rather modern engineering materials, portland cement and steel.

Brick masonry, being a homogeneous mass of fire-resistive materials having a high compressive strength, has long been successfully used for what may broadly be defined as "gravity type" construction, involving chiefly vertical compressive stresses. In order to more evenly distribute these stresses, brick walls of bearing-wall type buildings have for sometime past been reinforced with what has been termed "bonding irons," consisting of flat strips of wrought iron or steel, laid in the horizontal mortar joints at the center of the wall usually under the joists of each story carefully spliced for continuity in length, and locked at corners.

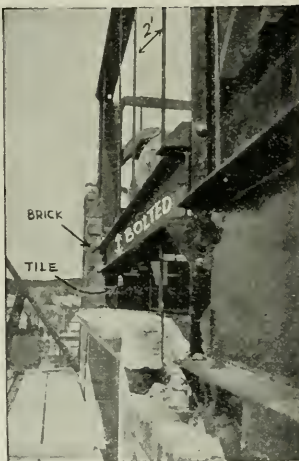
Various kinds of so called "hooping irons" have been used in brick masonry construction from time to time for various kinds of structures including chimneys, storage bins, etc., the type and position of these reinforcements being almost exclusively determined by judgment or opinion. It is of interest to remember that the old Palace Hotel in San Francisco, which withstood the earthquake and fire so gallantly in 1906, had its brick walls reinforced with steel cables from the old Comstock Mines. To what extent these cables were of advantage is, of course, a matter of conjecture. Nevertheless the thought of reinforcing the brickwork is of note.

During more recent years, however, or, as a matter of fact, since the advent of reinforced concrete, considerable attention has been directed toward the inserting of reinforcing steel rods or bars into brickwork for the purpose of definitely resisting bending stresses, with the result that to those familiar with its strength and practical application it has become recognized as reliable fireproof construction of what may be broadly termed the "suspension type," and as such is identified as "reinforced brickwork."

Reinforced brickwork is constructed by laying or embedding the reinforced steel in the mortar joints as the brickwork progresses. This may consist either of rods, wire or mesh. In the case of vertical steel it can be set in position prior to and the brickwork built around it as in the case of stirrups in beams, column steel, wall steel, etc. When vertical steel is $4\frac{1}{2}$ inches or so from the outside then, of course, it is embedded in the regular wall joint of mortar. When it is nearer than this distance the brick may be laid on edge or they may be cut around the reinforcement, the cutting having no effect on the strength inasmuch as the size and shape of the brick in this work where cement mortar is used is in a large measure secondary. The accompanying illustrations indicate how the work may be done. Lintels, beams and slabs naturally require centering or rough forms. The first course of brickwork

Paper presented at the Ninth Annual Convention of the Pacific Coast Building Officials' Conference at Long Beach, Calif., September 29 to October 4, 1930. Reprinted through courtesy of West Coast Builder.

is laid on the form and the reinforcing is placed either between the joints longitudinally as the first course is laid or if the section is deep the reinforcing is laid on top of the first course which would in that case pro-



Six-story apartment house, San Francisco, having 8-inch exterior walls constructed of 4-inch common brick facing backed with load bearing tile $3\frac{1}{2}$ inches by $5\frac{1}{2}$ inches by 12 inches reinforced in center of wall with $\frac{1}{2}$ -inch rods 2 feet on centers bolted through steel frame.



Building in Chicago having reinforced brick columns and walls using same principle of design as for reinforced concrete.

vide about $2\frac{1}{2}$ inches of fireproofing on the bottom.

Tests have shown that in no cases do any of the bricks below the reinforcing fall off but at the time of failure under test load their appearance is similar to reinforced concrete similarly tested.

Considering only compressive, shearing and bending stresses, brickwork and plain concrete are in a large measure similar. Likewise from an engineering standpoint, reinforced brickwork is similar to reinforced concrete in that, in both cases, the steel is the same; also, both have a binding and bonding mortar consisting of portland cement and sand; and each has a coarse aggregate. The difference between them lies chiefly in the composition of the coarse aggregate—the one being rocks of varying composition, and the other, a brick of known composition, strength, fire-resistiveness and durability.

Reinforced brickwork in the true sense of the term has perhaps had its greatest initial development technically and practically in North India where it has gained recognition primarily due to its availability and economy. With hand-sawed lumber, unsurfaced, rarely costing less than \$150 per 1,000 feet and often hard to get at that price; also portland cement being expensive, and suitable stone being unavailable locally in most of these sections, reinforced concrete was practically out of the question. However, brick being easily available and there being a need for fire-resistive masonry to withstand lateral and bending forces, the English and Indian engineers set about to develop reinforced brickwork and this has now been done to a very high degree. It has been used for large storage bins, columns, beams, girders, floor and roof slabs, decks of bridges, etc., with entire success, and is now a standard method of construction over large areas of North India.

Although this practical value of reinforced brickwork has been recognized, it is only in recent years that modern scientific methods have been applied to determine its full value in our present construction field.

With the knowledge and data now available through practical experience, tests and research, it is quite feasible to design reinforced brickwork involving the various structural stresses commonly applied to reinforced concrete.

Among the printed data on this subject are two noteworthy reports, one entitled "Notes on Reinforced Brickwork," by A. Brebner, C.I.E., printed at the Government Press, Calcutta, 1923 as Technical Paper No. 33 of the Public Works Department, Government of India; and the other is entitled "Reinforced Brickwork," by Mason Vaughn, University of Missouri Bulletin No. 37, Volume 23, 1923. The following is quoted from the Indian report:

"The similarity between reinforced brickwork and reinforced concrete has already been referred to. The principles of reinforcement are identical in both, the aim of the designer being to place the reinforcement in such a position that it will take up certain stresses; for this purpose in reinforced brickwork, rods are well embedded in the mortar joints of the masonry in suitable positions. Experiments have demonstrated that the steel and the masonry surrounding it act as one compact mass in almost exactly the same way as the concrete and reinforcement in reinforced concrete work.

"At first sight it would seem that brickwork could not be a homogeneous mass in the sense that concrete is, and that the regular joints in the work would present planes of weakness along which failure would readily

ly take place. In practice, however, it has been found that this is not a fact. On the contrary it has been proved that this factor is so insignificant that it can be neglected. It has also been established that there is no reason why reinforced brick structures should not be as successful as reinforced concrete ones of a similar nature, provided ordinary precautions are taken in designing and carrying out the work."

From the results of the full size beam and slab tests reported by Mr. Vaughn, certain definite design factors can be obtained.

It was found that slabs of brick laid flat, $\frac{3}{4}$ inches thick with $\frac{1}{4}$ -inch rods in each longitudinal joint ($\frac{1}{4}$ -inch centers) are safe for a load of 25 to 30 pounds per square foot on spans up to 8 feet, with a factor of safety of three. For slabs of brick laid on edge, $\frac{3}{4}$ inches thick, with $\frac{1}{4}$ -inch rods in each joint ($\frac{1}{4}$ -inch centers) it was found that such slabs, with a factor

eraged. The value given for j was secured by using the value of k found for that series in the formula

$$j = 1 - \frac{k}{3}$$

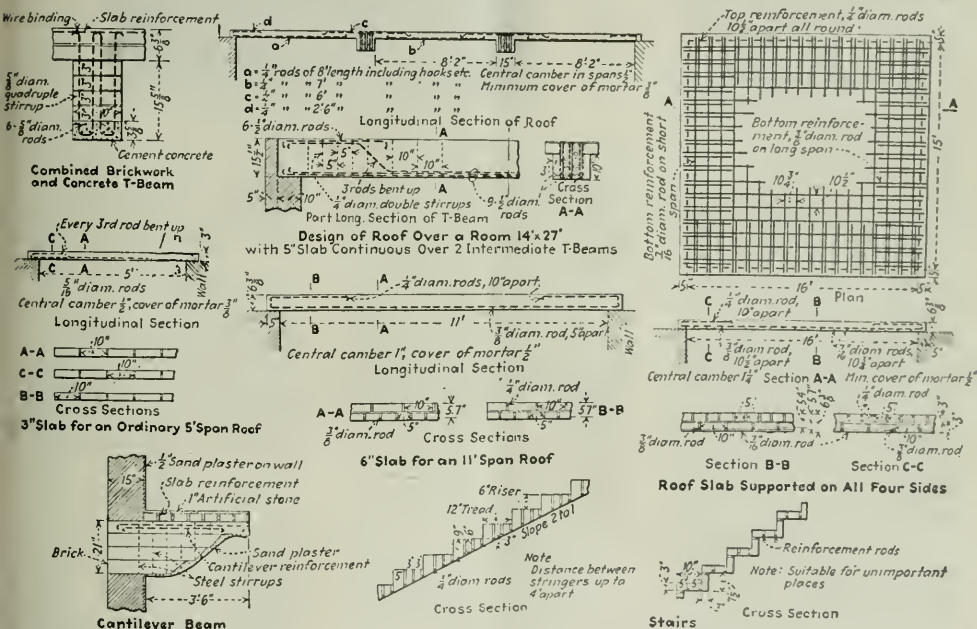
The value found for n was calculated from the formula

$$n = \frac{2p(1-k)}{2p(1-k)}$$

"It will be noted that the different beams of each series are quite consistent among themselves and that there is very good agreement among the different series. As expected, the S2 series gave the best results." (The S2 series referred to were reinforced solid masonry beams. Most of the others contained a longitudinal hollow space between the reinforcing and the upper compression area of the beams, the thought being to separate the moment couples with a space so as to gain increased strength with lessened weight). "There is no evident reason

to be a likely explanation since the stresses near the neutral axis were low and the gross stresses were not high.

"The safe loads given in Table No. 32 are calculated on the basis of one-third the average maximum load carried by the series. This seems conservative since the loads given in each case give stresses well below the safe loads of 16,000 for f_s and 650 for f_c . It seems likely that, with the substitution of either harder steel having a higher yield point or of larger sections of steel in the longitudinal steel and with increased stirrup reinforcing beams of this size would be quite as strong as are the commonly used grades of reinforced concrete beams. The steel used in these tests was rather softer than ordinary reinforcing grades. It is significant that in no single test of the 23 in the second series and flow in the first, was there any sign of failure in compression of either brick or mortar. The highest



Various details of reinforced brickwork as it has been developed in different types of construction in India

of safety of three, are safe for loads of 30 pounds per square foot on spans up to 14 feet and 60 pounds per square foot on spans up to 10 feet.

The results of Vaughn's experiments on reinforced brick beams show that in practically every case failure occurred by straining the reinforcing steel in tension or by diagonal shear of the masonry and that metal stirrups were successful in taking the diagonal shear stresses in the deeper beams of longer spans. Quoting from his report:

"Table No. 22 gives certain information not tabulated in earlier chapters and Table No. 33 (omitted) gives values of d and p observed and calculated from known measurements and value of k , j , and n calculated from observed data secured from the beams. The value of k was secured by graphically locating the neutral axis and computing the ratio. The value of k for each beam of each series was determined separately and the three av-

why the same amount of steel should have shown a higher yield point in these three beams than in some of the others, unless possibly there may be some connection between the yielding of the longitudinal steel and the stirrup steel. The S2-A and S2-B beams had one-fourth inch stirrups while the S2-C beams had only No. 9 wire stirrups. Diagonal tension failures, when they occurred came quite near the yield point of the longitudinal steel, showing that the two reinforcements were very nearly balanced. The H1 series, while reasonably consistent within the series in all respects and while carrying maximum loads not greatly different from those of the other series, seems very far off in the values it gives for k and n . No explanation, other than that the design is wrong in having too much hollow above the neutral axis, is apparent since the same men did the work on all beams and the same material was used. This does not seem

stress attained in compression was in the S2 series where at 18,000 pounds total load, the stresses were calculated to be $f_s = 42,500$ pounds per square inch and $f_c = 4,350$ pounds per square inch. The beam of the machine was actually balanced for some time at over 19,000 pounds load, but of course the steel was elongated so that no reading could be taken and therefore this load was not recorded. It would, however, show a considerably higher unit compressive stress. This would seem to indicate for the particular brick, mortar and workmanship used a safe stress under these conditions as high as 80 pounds per square inch in compression. Whether this would hold good for other conditions involving different brick and mortar materials can be determined only by trial. Probably brick giving the same compressive strength, modulus of rupture and absorption and with similar control of conditions, a stress of 600 pounds per square inch and a value

of $n = 15$ would be a perfectly safe basis for design. The effect of different actors involved in the strength of brickwork under these conditions is not indicated by our present knowledge of the strength of brickwork.

"As in other respects, the results are in fair agreement as to the value of n , with the single exception of the H1 series. The value range from 13.3 to 21, with an average 18, excluding the H1 series which gave the extraordinary value of 84. Averaging in this figure, the average value comes to 19. The modulus of elasticity was calculated from the beam deflection and deflection previously referred to for the S2 series, the value determined thus being 2,758,000. Taking n as 13.5, the modulus would be 2,255,000. This seems like fair agreement.

"The slabs tested showed remarkably good results. The flat brick slabs with only 0.15 square inch steel per foot width were under reinforced to develop the full strength of the brick. However, the safe live load of 25 lbs. per square foot which it actually carried was very satisfactory. The indications are that by increasing the steel to 5-16-inch bars this slab could be used over longer spans successfully or on shorter spans and heavier loadings. According to Diagram 21 given on page 28 of "Hool and Whitney's Concrete Designer's Manual," the brick on edge slabs were reinforced correctly on the basis of 18,000 lbs. on steel and 800 on the brick or over reinforcing for the assumed stresses. Assuming k and n in the same as observed in the S2 series of beams at failure, the stresses at failure were 21,700 pounds per square inch in steel and 1,895 in brick. In all tests, both beams and slabs, the deflections were

$$\text{well within the allowable limit of } \frac{1}{360} \text{ of the span at the design loads.}$$

"1. Slabs and beams of reinforced brickwork are technically practicable under American building conditions.

"2. Such slabs and beams react in a manner practically identical with the reactions of reinforced concrete, due allowance being made for properly proportioned stresses in concrete and steel.

"3. The modulus of elasticity of brickwork made with cement-sand mortar and brick of the quality used in this series of tests may be assumed a 2,000,000 pounds per square inch for ordinary calculations.

"4. Stresses under the conditions of this experiment, of 650 pounds per square inch on the brickwork in comparison is safe and probably unnecessarily conservative.

"5. Shearing stresses in beams are not so well resisted by brickwork as by concrete. While small beams may be safe without stirrups, no important beam should be made without at least light stirrups. Stirrups in general should be heavier than called for by standard concrete practice, just how much, is a question yet to be determined. The evidence available indicates that the difference need not be great. It seems very important that some top reinforcing be given near the ends of beams either by placing small rods in the uppermost mortar joint or by bending up one or more rods.

"6. Slabs made of not more than one course of brick seem to have no difficulty in resisting shear likely to come on them if the slab is properly designed in other respects.

"7. Careful and accurate control of the moisture in the brick or, more properly, the per cent of unsatisfied absorptiveness of the brick is very important. Brick with too high absorption will injure the mortar by removing too much water. Brick completely saturated or glazed to prevent absorption are hard to lay, probably do not develop the full adhesion of the mortar and do not take full advantage

of the water-cement ratio law. The necessary degree of control will have to be based on further experiment to determine the correct conditions.

"The direct cost of brickwork as compared with concrete is likely to be about the same with some probability of saving in form work and possibly some speeding up of completion schedules and other indirect savings."

In the July, 1930, issue of Brick and Clay Record appeared an article by Dr. Kanamori, civil engineer in a department of the Imperial Japanese Government entitled, "Reinforced Brickwork Opens Greater Possibilities." In it is shown photos of heavy



Top of brick bearing wall building, Los Angeles, showing reinforcing bars embedded directly in brickwork. Note wall anchors

work used in conjunction with some large canals and quays, the walls appearing to be 20 to 30 feet high.

Without discussing the technical phases of this work it may be stated that it is entirely successful. One quotation, however, may be of interest.

"... I will state that the nature of reinforced brickwork is like reinforced concrete and the formula for building reinforced concrete may be used in designing reinforced brickwork except introducing 25 for n (the ratio of modulus of elasticity) which is 15 for reinforced concrete. Below is given a practical formula for determining the dimensions of reinforced brickwork:

$$bh^2 = \frac{4.8}{Bc} M, \text{ as } a = 0.01 bh$$

Where

b = width of reinforced brickwork

h = thickness of reinforced brickwork

a = sectional area of reinforcement

Bc = allowable compressive strength of brickwork which usually is to be taken as 500 pounds per square inch

M = bending moment due to external force.

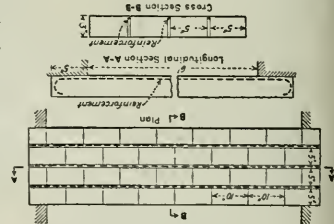
retaining walls of reinforced brick.

"Comparing the result of tests and this formula we arrive at a factor of safety of 3 to 5 from which I can say that if reinforced brickwork would be designed by this formula no danger need be expected. I have built many structures such as buildings, retaining walls, quay walls, bridge piers, abutments, and so forth, where my construction practices have been employed.

"There is no question that the reinforced brickwork should be used instead of brickwork when any tensile stress would be occurred in the structure.

"We can make them more safe and stronger, saving much cost.

"Further, I have found that reinforced brickwork is more convenient and economical in building than reinforced concrete and what is still more



An example of typical reinforced slab construction

important, there is always a very appreciable saving in time.

"Another important factor to be reckoned with in using reinforced brickwork as opposed to reinforced concrete is that with the first mentioned there is no necessity for using forms, thus there is a first saving in labor for erecting and dismantling forms after the concrete is set; neither

TABLE NO. 32

Beam No.	Days Age at Test	Max. Load	Safe Load	Wt. Lbs.	Cause of Failure
S1-A	49	14,000		1,645	Steel Slipped
S1-B	44	7,900	5,000	1,800	Steel Slipped
S1-C	42	11,000		1,850	Diagonal Tension
S2-A	41	18,000		1,745	Tension in Steel
S2-B	40	18,000	6,000	1,540	Tension in Steel
S2-C	46	17,000		1,540	Tension in Steel
H1-A	44	15,000		1,440	Horizontal Shear
H1-B	44	13,000	4,000	1,395	Diagonal Tension
H1-C	53	11,000		1,370	Diagonal Tension
H2-A	44	13,500		1,388	Diagonal Tension
H2-E	44	15,000	4,500	1,400	Tension in Steel
H2-C	42	13,000		1,498	Diagonal Tension
H3-A	56	14,000		1,260	Diagonal Tension
H3-B	50	14,600	5,000	1,270	Tension in Steel
H3-C	49	15,000		1,240	Tension in Steel
H4-A	48	16,000		1,420	Diagonal Tension
H4-B	45	14,000	5,000	1,370	Diagonal Tension
H4-C	45	16,000		1,370	Diagonal Tension

is necessary for any time to be lost while the concrete is setting.

"Furthermore, no surface finish is required, often a very expensive item in the case of reinforced concrete."

"In conclusion, the use of reinforced brick in place of reinforced concrete is much to be preferred, possessing as it does all the strength of concrete with the advantages and virtues of brick and of course it is decidedly better than ordinary un-reinforced brickwork."

Perhaps necessity was more or less responsible for starting the development of reinforced brickwork even as here in California where, due to considerations of earthquake forces, the minds of building officials, engineers and architects are considering practical and economical ways and means of supplying additional security to structures, there is being developed various and ingenious methods of reinforcing masonry walls. Some prominent architects are embedding the horizontal reinforcing bars in what might be termed "horizontal chases" or "spaces" made by omitting a course of brickwork at different levels which chases or spaces are filled solidly with cement mortar. These are usually placed under the joists.

Similarly vertical spaces or flues have been built within the wall ranging from one brick in length to several bricks in length and one brick or more in width; when the brickwork is scaffold high or story high, the reinforcing steel is inserted or dropped into the spaces or flues which in turn are filled with cement grout or cement mortar. Such vertical reinforcements are usually placed near corners or are used in the principal masonry masses as they occur usually between groupings of windows.

A combination of the horizontal and vertical reinforcements as just outlined has been used and found to be a very effective method of providing a great amount of additional stability to such bearing wall buildings as schools, hotels, apartments and the like having a relatively large number of window openings and in such cases the added cost has been found to be negligible.

Chimneys, parapet walls and the like are also receiving specific attention in the matter of vertical reinforcements.

Except for more uniformly distributed vertical loads, it is difficult for me to look upon a reinforced concrete band, the full width of a hall, as providing additional lateral stability to a building. Usually these bands are constructed in sections, thus having a series of cold joints and the top of the beam is cold before the brickwork above is laid. In the case of short vertical walls it may, of course, be of some value, but experience seems to indicate that the destructive earthquake force is the direct horizontal wave. In consideration of this it would seem that we need vertical continuity and a maximum of horizontal shearing resistance in bearing wall buildings. Therefore, if we deliberately destroy vertical continuity with a series of cold horizontal joints it would seem that the possible benefit to the building in consideration of the rarely destructive vertical waves is neutralized by the faulty such construction, which I would consider hazardous the safety of the building in consideration of the well recognized destructive horizontal force.

If, however, in either consideration, horizontal reinforcements is considered of some value in resisting horizontal forces it would seem much wiser to place it directly in the joints of the brickwork and thus not destroy the vertical continuity of the masonry, for there are on cold construction joints in masonry.

It is to be hoped and, we may say, expected that the use of steel to reinforce brickwork by the "assumed"

method will, before long, be done by the "designed" method.

Clay Products Institute of California is conducting further research and tests along this line, but as the work is still in progress no definite report can be made at this time.

However, since reinforced brickwork is shown to possess all the strength of reinforced concrete and, considering such outstanding virtues as durability of enduring materials of known strength and fire resistance, effecting positive protection of reinforcing steel against fire and rust, the total absence of so-called "cold" construction joints thus developing a maximum of continuity in all directions, freedom from expansion and contraction movement, the fact that while it is apparently a rigid mass it possess a certain degree of flexibility which permits minute movement of structure without rupture, the certainty of skilled workmanship, marked economy in cost and simplicity of construction, and among the last technically but among the first economically, high architectural value, it does seem to follow that the Pacific Coast Building Officials' Conference will not too long hence be called upon to incorporate in the Uniform Code, legislation for "Reinforced Brickwork."

Garage Ordinance Amendment Passed By S. F. Supervisors

Bill No. 9374, amending the San Francisco garage ordinance, has been passed to print by the Board of Supervisors. The amendment makes a public garage of any building storing four or more automobiles not the property of residents of the building and was sponsored by the Garage Owners' Association. The measure, it is said, is aimed at certain apartment house owners who make a policy of renting automobile space to persons not tenants in their buildings.

Under the amendment, building owners who indulge in this practice would have to pay a quarterly fee of \$12.50, the same amount charged the public garages.

The amendment reads as follows:

Section I, Subdivisions "d" and "e" of Section I or Ordinance 8564 (New Series), the title of which is recited above, are hereby amended to read as follows:

(d) A "public garage" shall mean any building, structure or part thereof wherein four or more automobiles are kept or stored by the public, or wherein storage facilities for four or more automobiles are advertised by any sign or device affixed to or painted upon said building or structure or any part thereof or otherwise, or where a charge is made for the storage and keeping of four or more automobiles.

(e) A "private garage" shall mean any building, structure or part thereof wherein less than four automobiles are stored or kept by the owner or owners thereof, or by the public, whether or not a charge is made for the storing and keeping of same.

In Apartment house buildings, hotel buildings, flats or dwellings, the above definitions (c), (d) and (e) shall not operate against providing and making a charge for automobile storage space as follows:

In Apartment house buildings not exceeding three hundred (300) square feet for each apartment within the building.

In hotel buildings, not exceeding one hundred and fifty (150) square feet for each room within the building, provided that the spaces in which automobiles are stored conform with the State Housing Act of 1923 and amendments thereto, and also provided that all enclosures or exterior walls rest on the foundations to the surface of the floor constituting the ceiling of the garage shall be of masonry as required for class "C" building.

In flats or dwellings not exceeding

four hundred fifty (450) square feet for each flat or dwelling.

Said definitions shall not operate against an owner having a greater space than herein defined, provided when it is exceeded in apartment house buildings and hotel buildings, the construction shall be class "A" or "B" as defined in the Buildings Laws of the City and County of San Francisco, and provided that if located in flats or dwellings the construction shall be as required for apartment house buildings and hotel buildings, and provided further, that any apartment house building or hotel building, or flat or dwelling, wherein four or more automobiles are kept or stored by any person or persons not residing in the building shall be a public garage as herein defined.

GENFIRE-TRUSCON IN CONSOLIDATION

The Genfire Steel Co. announces consolidation with the Truscon Steel Co., effective October 25, 1930.

This move was undertaken primarily to enable the new augmented Truscon Steel Company to render a more complete and efficient service than any other company attempting to manufacture a similar line of products. With this consolidation there is being established a new department of the Truscon Steel Company, to be known as the Dealer Commodity Department, which will handle the commodity products of the combined companies.

Mr. A. A. Fraser, as Assistant Branch Manager of the San Francisco Office of the Truscon Steel Company, will have charge of this new department and will be assisted by the same office and sales personnel as is functioning in the Genfire Steel Company.

HEATING ASSOCIATION PROTECTS PURCHASERS

Whenever low cost natural gas is brought into a district records show that an influx of gas appliance sales concerns immediately follow with many different types of gas burning appliances to sell in the newly developed market. While many of these appliances are of proven quality and worth, a large percentage are of indifferent quality.

With the installation of natural gas in Northern California, steps were taken by the Furnace Dealers' Association of Northern California, Inc., to prevent this condition.

"In the East Bay section," J. L. Kenney, president of the Furnace Dealers' Association, says, "ordinances governing the construction of gas appliances and their correct installation are now in effect and are being rigidly enforced."

Every gas appliance now installed must be in accordance with the provisions of the law and must be inspected by an authorized inspector of the respective city where installation is made. The dealer must take out a license before he can legally make any installation large or small.

"Our Furnace Dealers' Association of Northern California, Inc., made up of reliable and reasonable heating concerns, has cooperated to the utmost with the authorities to give protection against inferior gas heating appliances."

"Many installations have already been made under our association 'bonded heating' seal, and our office has received many compliments on the quality and workmanship on installations made by our 'bonded heating' members."

Members of the association are Pacific Gas Appliance Company, Superior Sheet Metal Works, Aladdin Heating Corporation, Dickson & Hubbard, Ruid Heater Company, Dillard-Scarve Company, agents, Atlas Heating and Ventilating Company and Kerosene Heating Company.

THE OBSERVER

What He Hears and Sees on His Rounds

Creation of sinking funds by cities of Oregon from which to finance construction of sewage and garbage disposal plants was recommended by Chris Schubel of Oregon City, president of the League of Oregon Cities, in the opening speech of the annual conference of the organization at Salem. Schubel would have the legislature enact a general statute permitting cities to create sinking funds outside of the 6 per cent tax limit, for this specific purpose.

Announcement of the second arc-welding prize competition to be sponsored by the Lincoln Electric Co., Cleveland, Ohio, gives engineers and designers in every industry an opportunity to share in the 41 awards, ranging in size from \$7,500 to \$100, which will be awarded for papers describing skill and ingenuity in the utilization of arc-welded construction.

Papers entered in the competition will be judged by a jury composed of members of the electrical engineering department of Ohio State University under the chairmanship of Prof. Erwin E. Dreese.

The competition will be open to any person in the world except employees of the Lincoln Electric Co. and will close Oct. 1, 1931.

Mostly all industries cater to installment buying. Whether it is a radio, automobile, furniture, clothing or what-not, these luxuries and necessities of life are to be had on the partial payment plan. The building industry is following the same procedure. Contractors specializing in plumbing, steamfitting, painting, decorating, sheet metal, electrical and foundation work find the present a most desirable time to do likewise. Fixed monthly payments with interest are accepted from substantial parties wanting alteration or remodeling work and in some cases two years' time is allowed to complete payments. Home owners needing an extra bedroom, a modernized bathroom, an additional radiator, painting, decorating, etc., will save considerable by proceeding now, instead of waiting for the building upswing with the seller demanding more for his service and product.

In the belief that there are attractive architectural possibilities to be found in the natural characteristics of elevated steel tanks and that no serious thought or effort has been given to these esthetic possibilities, the officers of the Chicago Bridge & Iron Works have undertaken to sponsor a competition in the hope of securing designs for a typical tank and tower from which may be developed structures of improved appearance.

For the eight most interesting designs, the following prizes have been offered: first prize, \$2,000; second prize \$1,000; third prize, \$500; and five honorable mention prizes of \$100 each.

A jury of awards consisting of Howard Cheney, president of the Chicago chapter of the American Institute of Architects; R. W. Zimmerman, architect, of Chicago; and George T. Horton, president, Chicago Bridge & Iron Works, has been appointed. Albert M. Saxe, architect, Chicago, has been appointed professional adviser in the competition.

Participation is open to all architects, engineers and draftsmen who

make application to the professional adviser at 430 North Michigan Ave. on or before Dec. 1, 1930.

Physical requirements for the competitive tank are as follows: (1) 200,000 gal., or 26,700 cu. ft. capacity; (2) top of tank 110 ft. above ground level and the low water line, or bottom of the tank not less than 85 ft. above ground level; (3) size of riser pipe at least 5 ft. in diameter; (4) all portions of the entire tank and structure must be built of structural steel, all of which shall not be short lived either as the result of its design or the thinness of the sections.

Mayor John L. Davie has urged the city council to pass an ordinance limiting the height of buildings in the Oakland downtown business district.

He states that he realizes the pride the citizens have in the rapidly developing skyline of Oakland, but is of the opinion that tall buildings in the business area result inevitably in congested traffic conditions.

The mayor says that Oakland now has the opportunity of avoiding such future disaster while in its first period of growth toward metropolism. He would limit the height of downtown buildings to a maximum of 150 feet. This would spread the business district, he states.

Award of a contract for industry's first windowless factory building, a \$1,500,000 plant, entirely without daylight, and embodying radically advanced ideas for scientific creation of artificial lighting, ventilation and other working conditions, is announced by the Austin Company, engineers and builders. The structure will be built for the Simonds Saw & Steel Company at Fitchburg, Mass. It will occupy five acres and will be one-story in height.

The unique building will have solid sun-resisting walls. Its roof will have neither windows nor skylights. Illumination will come from hundreds of 1000 watt electric lights arranged to provide uniform light intensity which is rarely possible in daylight factories dependent upon the cleanliness of windows or upon the weather.

One of the many innovations will be the painting of machinery in orange color to increase their visibility and help reduce accidents.

A. T. Simonds, president of the Simonds Saw & Steel Company, recently let a contract for the erection of a \$1,500,000 plant at Fitchburg, Mass., declaring his decision to build at this time was based upon the confidence of the firm's officials that business recovery is near, and their belief that present construction costs are favorable for immediate expansion against future needs.

We need more business men of the Simonds type.

The most optimistic outlook for an early improvement in business conditions is in connection with building, according to Kenneth S. Thomson, executive secretary of the Oakland Association of Credit Men.

Thomson declares that the various lines of building material show a business improvement which seems somewhat better than seasonable. He sug-

gested that the corner has been definitely turned in this one industry, at least.

"A basic reason for this is not hard to find," said Thomson. "Building has been scraping the bottom for a long time, longer than most industries. I believe it is due for a long steady pull on the upgrade."

"The first thing which will help building will be the launching of many large projects in California and thru-out the country and the second is the big program of modernizing and re-modelling old homes which has now gotten definitely under way."

Thomson says that the success of the Oakland association and the national organization with which it is affiliated demonstrates that the foundation of business is reciprocity and that co-operation is no longer a mere sentiment but a definite business necessity.

The Uniform Building Code of the Pacific Coast Building Officials' Conference is wandering far and wide. Eighty-six cities have already adopted the legislation.

Huntington Park and Newport Beach are the two latest California cities to adopt the code.

Santa Clara, a town without a building inspector, is considering its adoption, as is Gilroy, another city in the Santa Clara Valley.

Mayor Chester Thompson of Rock Island, Ill., has requested permission to adopt the code as official for his city.

Glendora, Calif., recently incorporated, contemplates adoption of the code.

San Diego has appointed a committee of eleven to submit a report concerning the adoption of the code.

The Gibbs Lumber Co., of Anaheim, Calif., furnishes the following table of comparative costs during the past 10 years, of lumber for a small 5-room bungalow, using rough fir dimension lumber, redwood bevel siding, cedar shingles, redwood exterior finish, fir inside finish, sash and doors and hardwood floorings:

October	Contractors Price	Percent
1920.....	\$1,024.45	100
1921.....	796.07	.778
1922.....	705.18	.688
1923.....	832.63	.812
1924.....	701.32	.685
1925.....	625.75	.61
1926.....	632.45	.62
1927.....	597.32	.583
1928.....	576.97	.563
1929.....	556.40	.553
1930.....	510.25	.50

The San Francisco Labor Council has joined with the San Francisco Building Trades Council, the State Building Trades Council of California and the California State Federation of Labor in demanding that free labor be employed in the construction of state buildings.

This demand is being made upon the Governor and the members of the State Board of Prison Directors.

The reason for this action was the fact that in the construction of a new building at San Quentin penitentiary it became known that it was planned to use prison labor.

Five damage suits aggregating nearly \$250,000 have been filed in Los Angeles against the Valley Paving & Construction Company of Visalia and the California State Highway Commission, by relatives of Mrs. Annette C. Ives, who was killed in an automobile accident near Earllinart, Tuare County, a year ago. The suits allege that a car in which Mrs. Ives was riding struck a depression left in the pavement by the construction company, and overturned.

HERE — THERE — EVERYWHERE

TRADE NOTES

ALONG THE LINE

The Twentieth Annual Convention of the National Association of Builders' Exchanges will be held at the St. Anthony Hotel, San Antonio, Texas, February 16-19.

Los Angeles county supervisors have instructed the heads of all departments to make a survey to determine what contemplated work can be started immediately to relieve unemployment in the county.

Declaring that a reduction of office rentals would retard business and impair capital, delegates to the Northwest Building Owners and Managers' Association, meeting in Spokane, Wash., October 24, voted not to cut rentals.

City council of Port Angeles, Wash., in awarding the contract for the construction of 10 miles of concrete sidewalks, pledged the successful contractor to employment of only local labor on the job.

Governor Roosevelt of New York recently announced that he was in favor of State Unemployment Insurance. He suggests that both employer and employees be joint premium payers.

A hundred or more zinc mine workers in Illinois recently walked out because the employers decided to reduce their wages twenty per cent.

Thomas Phelan, a Cambridge, Massachusetts plumber, claims that not once in the fifty years he has worked at the trade has he forgotten his tools.

FEWER FAILURES ON PACIFIC COAST SAYS R. G. DUNN COMPANY

Commercial insolvencies increased during the third quarter of the year by comparison with 1929 in all sections of the United States except the Pacific region, according to records compiled by R. F. Dunn & Co.

Failures numbered 5,904 concerns for the entire country compared with 5,082 in the third quarter of 1929 and with 5,210 in 1928. In addition there were 102 bank suspensions in the third quarter of 1930 against 81 in 1929. Liabilities for all districts totaled \$135,954,991 against \$100,296,792 in 1929 and \$121,745,149 in 1928. Liabilities of bank failures were \$73,877,397 against \$4,180,270 in 1929. Liabilities of commercial insolvencies by sections as follows:

West \$6,613,672; Central West \$9,127,777; South Atlantic \$9,468,306; South Central \$13,865,195; New England \$11,963,549; Pacific \$11,545,982; Central East \$31,056,707; and Middle Atlantic \$42,225,506.

By comparison with 1929, the number of insolvent concerns reported during the third quarter of 1930 increased four per cent in manufacturing lines, 21 per cent in general trading lines, 15 per cent in all other commercial lines.

Fewer bankrupt concerns were reported during the third quarter than in the first and second quarters this year. The number of commercial insolvencies in the first quarter was 7,368, and in the second 6,403. Liabilities totaled \$169,357,551 in the first quarter and \$167,731,532 in the second quarter.

Glasgow Brothers has leased quarters in the Fairchild Building at Placerville, Calif., and will carry a complete line of plumbing and electrical goods.

Power Mfg. Co., Marion, Ohio, has created a number of regional sales districts in charge of representatives from the home office. Sales of Victor diesel-type engines will hereafter be handled through these offices, located at Marion, Ohio (two offices), Memphis, Tenn., Dallas, Texas, and San Francisco.

Truscon Steel Co., Youngstown, Ohio, has engaged Wharton Clay to help extend professional and trade contacts and to develop fields for the application of new ideas in up-to-date merchandising.

Porter-Cable-Hutchinson Corp., Syracuse, N. Y., has been formed by consolidation of the Porter-Cable Machine Co., Syracuse, and the Hutchinson Mfg. Co. of Norristown, Pa. Manufacture of wood-working machinery will be continued at both Syracuse and Norristown plants. Sales agencies will be consolidated.

Lincoln Electric Co., Cleveland, Ohio, has appointed W. S. Stewart, formerly in charge of Pacific Coast offices of the company, district manager in charge of the Cleveland territory.

Utilities Equipment Corp., Ltd., Los Angeles, has taken over Jones-Lyman & Co., Inc.

U. S. ARMY PROPOSES TO SPEND \$2,762,300 ON ALAMEDA AIR BASE

Total expenditure of \$2,762,300 for development of the proposed United States army air depot in west Alameda over a period of three years is anticipated by the war department if voters of Alameda approve the gift of land to the government at the election scheduled for November 4.

Initial expenditure of \$743,000 during the year 1931 is planned and this will be followed by a request that congress appropriate \$1,078,000 to continue development of the air depot the following year.

Completion of the air depot is planned in 1933 when congress will be asked to provide an additional \$941,300 to finish the project.

Plans call for a depot having a capacity to recondition 30 to 40 planes a month from the start and will require the services of a commissioned staff of 20 officers and 500 civilian workers. The staff and plant capacity is expected to be materially increased from year to year.

It is proposed to use the air depot here as a supply station and headquarters for the air corps stationed in 12 western states, Alaska, Hawaii and the Philippines.

During the year ended June 30, 1929, the state board of licensing for professional engineers and land surveyors in New York State acted upon 1497 applications for license. Only 843 of these applications were acted upon favorably. Of the remainder, 456 were rejected and 198 held over for more information.

R. H. Morchouse, former secretary of the Pacific Coast Division of the National Association of Wooden Box Manufacturers, has been made secretary-treasurer of the national association, succeeding Paul L. Grady resigned to enter other business.

A resolution demanding the removal of M. M. O'Shaughnessy from the consulting board of the Marin Municipal Water District has been adopted by the Marin County Real Estate Board. The real estate interests declare O'Shaughnessy has issued inaccurate information and aligned himself with a group opposed to the good of Marin.

C. H. Purcell, California state highway engineer, has been requested to address the annual meeting of the Washington State Good Roads Association to be held at Wenatchee on November 21. Mr. Purcell has been asked to outline the work accomplished on California highways during his administration as highway engineer.

CONTRACTOR IS HELD LIABLE TO PAY SUB-CONTRACTOR

Under ordinary circumstances a sub-contractor cannot recover payment for a principal contractor for work not accepted by the owner's engineer or architect, providing the contract states that he shall approve the work before payment. Yet if the contract does not clearly indicate this latter intention of the parties the principal contractor may be liable for payment for materials not approved by an engineer or architect assumed by the owner, says The Contractor.

In the United States Court case of F. J. Lewis Mfg. Co. v. Snyder, 37 F. (2d) 299, a contract between an owner and a principal contractor provided that all material furnished should be of the best quality, and that if the work, in the opinion of the engineer, did not comply with the specifications, it should be replaced at the expense of the contractor.

The engineer refused to approve the materials of a sub-contractor, who, therefore, was compelled to furnish the more expensive material required by the engineer. The sub-contractor sued the principal contractor to recover additional payment.

The refusal of the engineer to use the materials was based upon the fact that a part of the materials previously furnished by the sub-contractor were not satisfactory, not that the present materials which he proposed to use did not meet the specifications here involved. In fact it did meet them. Therefore the higher court held the principal contractor liable for extra payment for the more expensive materials, saying:

"A contracting party may undoubtedly bind himself to do a thing which subsequently becomes impossible of performance, and thus become liable for nonperformance if the cause of the impossibility arise from his own act or might have been foreseen by him, but the sub-contractor did not put himself in that situation."

ENGINEERING SOCIETIES EMPLOYMENT SERVICE

Further information regarding positions listed in this column is obtainable from **Newton D. Cook, Room 715, 57 Post Street, San Francisco.** (Phone Utter 1684).

W-1782 - C-S CONSULTING MECHANICAL ENGINEER, to advise on organizing heavy repairs for passenger and freight railroad cars and to equip, organize and supervise operation of central car repair shops. Contract for one year, renewable. Salary open, one-third to one-half in paper rubles for living expenses, balance in U. S. money to American bank. Applications only by letter which will be forwarded to Moscow for decision. Location, Russia.

R-3378 - S ENGINEER, preferably structural, with at least 10 years' construction experience, for sales promotion work. Should be able to talk and write convincingly on engineering subjects. Territory to be covered is Mid-Continent oil fields. Salary \$300-\$400 and expenses. Apply by letter. Headquarters, Seattle.

R-3349-S SALESMAN, young man with car, to do promotion work for dealers. Must have experience selling roofing to owners. Salary and expenses. Location, Northern California.

R-3355-S DRAFTSMAN, first class topographic draftsman and tracer, for oil company. Salary about \$175 month. Apply by letter with references and samples of ability. Location, Texas.

R-3309-S ENGINEER, mechanical or electrical, not over 30 years, with 3 to 5 years experience on hydro-electric plant operation for service and testing work. Must have mechanical skill, agreeable personality and be willing to travel. Salary about \$175 month and expenses in the field. Apply by letter. Headquarters, San Francisco.

R-3333 - S CHEMICAL ENGINEER graduate, with 1-3 years experience, for research work on development of plant equipment. Excellent opportunity for man with thorough chemical engineering training and with more than average ability. Salary \$150-\$175 month to start. Apply by letter.

"Build Now" Advises Building-Loan Head

not delay but should borrow now and build. This is the urgent advice of H. S. Wanzer, President of the California Building-Loan League. Every element of cost in home construction has decreased in recent months to the point of remarkable bargain prices, making it possible to construct a home today for approximately \$4,200, that would have cost in 1923 as much as \$6,000, according to a statement issued by the head of the building and loan movement of this State.

"This is decidedly a buyer's market," said Mr. Wanzer. "The supply of materials just now is greater than the demand. Prices are at low levels but this cannot be expected to continue for any great time. Already lumber and cement have shown an upward turn and it is to be expected that the other major materials which go into home construction will soon show a similar turn. Today every advantage is on the side of the home builder. He can build a better home, the kind of

house he always has wanted, for less money than at any time during the past decade."

The reason for this is that building materials are still selling considerably below prices for 1925. Examples of these prices, compared with five years ago, are as follows: Cement 30 per cent less; construction lumber, 30 per cent less; hardwood, 15 per cent; sash, door and millwork, 35 per cent; electric equipment, 20 per cent; plumbing, rough and finish, 25 per cent; rock and sand, 20 per cent; paint, 10 per cent; hardware, 20 per cent; heating plants, 20 per cent; glass, 20 per cent; metal lath, 22 per cent; reinforcing steel, 8 per cent; steel windows, 11 per cent; steel joists, 10 per cent; structural steel, 10 per cent; common brick, 30 per cent; roof tile, 30 per cent, and labor costs through increased efficiency, 15 per cent less. These figures show an average reduction of 20 per cent in nineteen major materials.

Legitimate building is always justified and is now receiving considerable encouragement from the government and financing interests. Money is comparatively easy to borrow and can be obtained on favorable terms, particularly to construct single family dwellings as the vacancy factor in this class of housing is considered low. The family man now paying rent, who has the confidence and intelligence to build his own home at this time, will find the material dealer, the craftsman and the financing agency ready and anxious to render him the highest type of service. It is to his best interest to take advantage of this situation.

The 234 California building and loan associations are interested primarily in loans on small homes, the average of loans now in force does not exceed \$2,500. Loans are all made on a monthly repayment plan of financing which helps the home buyer to actual ownership of his property and does away entirely with the expense of periodic renewals. The popularity of the helpful building and loan type of financing is indicated in that loans are now in force on 137,000 California homes.

TRADE LITERATURE

Commercial concrete plants are considered in two recent publications of the Butler Bin Co., Waukesha, Wis. Bulletin 130 illustrates and describes loading plants for use with truck-mounted mixers, while bulletin 190 gives similar information with regard to ready-mixed concrete plants where a stationary mixer is used.

"How to Make Good Waterproofed Concrete" is the title of a 28-page illustrated bulletin issued by the Medusa Portland Cement Co., Cleveland, Ohio.

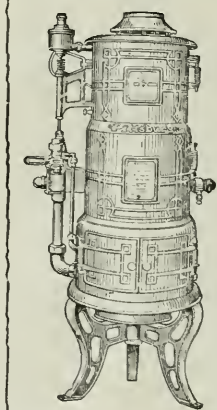
PARAFFINE COMPANIES, INC., PLANS NEW FINANCING

Definite rumors are current in the financial district that the Paraffine Companies, Inc., is about to engage in short term financing, which has been underwritten by a leading Pacific Coast investment house.

It is reported that Paraffine has concluded negotiations for several advantageous acquisitions to its domestic business, and that it plans additional investments in some of its foreign subsidiaries with a view of expanding its operations at home and abroad.

While no definite figures as to the amount of the financing are available, it is believed that it will constitute but a small fraction of the company's net worth, and that the ratio of earnings to interest charges on the new issue will be in excess of thirty times.

This report is considered particularly interesting as an indication of the company's policy to extend its lines throughout the world.



A "Pittsburg" Automatic Water Heater installed in the Home indicates high quality throughout.

Recommended and specified by all the leading architects, plumbers and builders

Consider the high merit of the Pittsburg coupled with "Pittsburg Perfect Service."

"Hot water quick as a wink."

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Makers of "Pittsburg Automatic"—"Bungalow Automatic" Storage Systems and "Lyon" Tank Water Heaters.

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SEND FOR CATALOGS

CONTRACTOR STRESSES NEED FOR BUILDING MODERNIZATION

By Harold K. Ferguson, President, H. K. Ferguson Company

The present seems to me to offer an opportune time to do some more thinking about the development of our industrial cities.

While we are checking up our plants and organizations in preparation for renewed activity, there is need for a better perspective of the whole problem of housing: First, for the individual citizen, second, for the downtown business office, and third, for the industrial production unit.

Possibly because of the rapid growth of American industry our industrial centers present some odd contrasts due to the lack of coordination in planning. We have been opportunists seeing only our own problem without a full appreciation for the broader aspects of civic development.

A recent survey which has been made for us in several of the principal industrial centers of England and the Continent reveals the fact that in many regards the cities of Europe are far ahead of us especially in the development of adequate housing facilities for people of the employed classes.

The skylines of our cities have been advertised to the world as monuments to the vision and courage of American business, until we have come to believe it. Sandwiched between our skyscrapers are antiquated buildings, survivals of a by-gone generation, many of which are scarcely a credit to our streets. Indeed, even some of our newer buildings are either ill fitted for the purpose for which they were intended or are doomed to early obsolescence.

The young men of the next generation may be the ones who will tackle the job of reconstructing the obsolete areas of our cities, creating decent homes and favorable surroundings for the less favorable of our people, but it is going to be done.

A way will be found to bring about the construction of broad streets, modern housing developments, new commercial centers, creating sound values where little or no value exists today.

A new spirit which is being fostered by the colleges and universities of our country is going to make itself felt in our public and industrial life before many years have passed; it is the spirit of dissatisfaction with things as they are—the spirit which refuses to accept without question the heritage of the past.

"What our age needs most," declared Dr. William E. Wickenden, President of Case, "is not faith, nor knowledge, nor legal reform, nor research, important as these things are, but it is the wisdom to see things whole."

City plan commissions, better housing studies, are the nuclei of thought and activity which are going to transform our so-called modern cities so that our much advertised "standard of living" will be available to thousands who today huddle together in wretched surroundings.

Sometimes a rude shock reveals our weak spots and accelerates the movement toward modernization and improvement. The foundations of a new and remodeled Baltimore were laid over the ruins left by the fire of 1904. San Francisco has built a model city over the ruins of its earthquake.

In Japan an advanced type of earthquake resistant construction, broad streets and fireproof structures will minimize the toll of future disasters.

The efficiency of American industry has also been advertised to the world until we have actually come to feel satisfied that in general it is safely entrenched behind its research department, scientific production methods and its high-pressure sales departments.

Flattered by limitation and praise we had almost accepted the idea that the old immutable law of supply and demand was at last defeated and that prosperity was here to stay, when a depression of major proportions occurred to show us the truth about ourselves.

As a matter of fact, although in the aggregate American industry spends hundreds of millions annually for research, and although many concerns have modernized their plants and are scientifically managed, there are a vast number of concerns which are still trying to live on their reputations. It used to be possible to increase profits by raising prices; today dividends are being paid by concerns which are smart enough and quick enough to outdo their competitors.

We often find that there is a narrow dividing line between loss and profit in the operation of an industrial plant. An executive of a paper manufacturing concern in the middle west a few days ago stated, "We are in business today because two years ago we overhauled our power plant and brought it up to top-notch efficiency." Another concern of our acquaintance which was at the point of buying additional land to expand its production found to its surprise that by a re-arrangement of its production layout, it could double its output with the floor space it already had.

What a good many concerns need, however, is an impartial survey of the entire business taking into account economic factors such as strategic location for economic assembly of raw materials, for proximity to principal market centers; advantageous labor markets; sources of cheap power. A new locality thought to be more favorable to the growth of a business can be tested at moderate expense by establishing a branch plant. Should experience justify the undertaking, the entire business can be moved to the new locality. The economies possible through such a shift of operations may easily turn the red figures into black.

Strengthening of individual spots of weakness in a business often affords a measure of relief. But a thorough study of a business as a whole will go farther to reveal the fundamental weaknesses that retard progress and prevent satisfactory earnings.

It has been interesting to watch the reaction of various business concerns to the new conditions which have been forced upon us during the last year. Some having passed through similar periods were ready with the strategy required for the emergency and were able to cash in on the unpreparedness of others. Others, after a brief hiatus, adjusted themselves, brought out new lines, developed new sales strategy and

proceeded as before. A great many seem to be much like the old lady who "enjoyed poor health."

A friend of mine the other day apologized to a New York banker for calling on him so frequently about an important business transaction. The banker replied, "We are glad to see you coming because instead of talking about charts and curves and conditions, you bring a constructive plan which gives us something to think about besides our worries."

If one will examine a list of corporations which are paying dividends as usual, one will find that there are reasons other than "good luck." In the background there has been careful planning. Plants are modern. Equipment is up-to-date. There is a spirit in the organization that jumps into the collar like a good horse when he feels the lead.

Fortunately for American business there is a healthy lot of stock-taking going on behind the closed doors of directors' rooms nowadays. Executives who have discovered the weak spots in their plants and organizations are looking the facts squarely in the face. A good many long headed thinkers in public and business life are predicting that out of the depression of 1930 is going to come the broadest and most far-reaching program of civic and industrial modernization that the world has ever seen. The next decade will see millions spent in our principal cities for the reconstruction on a modern plan of their slum sections.

In the years just ahead hundreds of industrial plants which have lagged behind clinging to obsolete methods and equipment will either bring themselves into line or be left behind in the race.

Returning not long ago to my own city from visiting such modern plants as the Point Breeze Works of Western Electric Company at Baltimore and the American Enka Corporation's new rayon plant at Asheville, North Carolina, I had occasion to drive through one of our older industrial sections. Along both sides of the street were factory buildings forty or fifty years old which house firms that have been well-known for a generation. Much of their equipment, to say nothing of the buildings, should have been on the scrap heap years ago.

These firms and many like them in every industrial center must sooner or later face the fact that this is 1930 and that a 1900 model factory is just as helpless in the hurly-burly of modern competition as a 1900 automobile on Fifth Avenue.

A business acquaintance of mine declared the other day that he had learned that one of the best uses he can make of his time is to visit the plants of other concerns, not necessarily in his own line. "If, by visiting six plants, I can get for my company six new ideas, it is worth far more to the business than checking up on lead pencils and typewriter ribbons."

When I feel myself getting pretty sick I do not waste time experimenting with home remedies. I forget the old medicine chest and go out to see the best diagnostician I can find. When he finds out what is wrong with me, he may send me to a specialist or two. Among them they will get me well in a reasonable short time.

A sick industry which will not admit to itself that it is sick or that organization, is likely to remain sick for a long while. Many of these tries to find a remedy within its own never get well.

Building News Section

APARTMENTS

Permit Applied For.

APARTMENTS Cost, \$100,000
LOS ANGELES, Cal. No. 364 S.
Cleveland Avenue.
Four-story reinforced concrete apart-
ments (54x104 ft. (57 rooms)).
Owner and Builder—Webster Treat.
5369 Wilshire Blvd., Los Angeles.
Architect—Clarence Smale, 5369 Wil-
shire Blvd., Los Angeles.

Plans Completed.

APARTMENTS Cost, \$300,000
LOS ANGELES, Cal. No. 1861 Chero-
kee Avenue.

Ten-story and basement Class A re-
inforced concrete apartments (86
x95 ft.) (200 rooms).

Owner — Cherokee Properties, Ltd.,
Quincy Bldg., Los Angeles.
Architect—Marcus P. Miller, Board
of Trade Bldg., Los Angeles.

Sub-Contracts Awarded.

APARTMENTS Cost, \$85,000
OAKLAND, Alameda Co., Cal. Exact
location withheld.

Three-story frame and stucco apart-
ment with concrete basement (30
x- 3- and 4-room apts.)

Owner—A. Jensen, care architect.
Architect—H. K. Jensen, 354 Hobart
St., Oakland.

English type of architecture, com-
position and shingle roof, steam heat-
ing system, and all modern conven-
iences.

Structural Steel—McGrath Steel Co.,
354 Hobart St., Oakland.

Lumber—Smith Lumber Co., foot of
18th Ave., Oakland.

Pans—Steelform Contracting Co., Mo-
nadnock Bldg., San Francisco.

Bids are being taken on other por-
tions of the work.

Segregated Bids Being Taken.

APARTMENTS Cost, Approx. \$300,000
ALAMEDA, Alameda Co., Cal. NW
Webster and Taylor Sts.

Seven-story reinforced concrete and
steel apartments (60 2, 3 and 4-
room apts.)

Owner—J. S. Bercovich, Actico Bldg.,
Oakland.

Plans by Thomas Keenan, 1440 Broad-
way, Oakland.

Preliminary Plans Prepared.

APARTMENTS Cost, \$30,000
SAN MATEO, San Mateo Co., Cal.
Apartments (type and height of build-
ing not given).

Owner—Withheld.
Architect—J. Lloyd Conrich, 630 Lake
St., San Francisco.

More definite information will be
given shortly.

Sub-Bids Being Taken.

APARTMENTS Cost, \$125,000
SAN FRANCISCO, NE Fair Oaks and
25th Sts.

Six-story and basement class C steel
frame and concrete apartments (36
3-room apts.)

Owner—V. Guilles, 1203 Guerrero St.
Plans by Owner.

Engineer—J. M. Smith, 251 Kearny St.
Contractor—F. C. Fisher, 112 2Noe St.
Construction will not be started be-
fore December 1st.

Preparing Plans.

APARTMENTS Cost, \$—
SANTA BARBARA, Santa Barbara

Co., Cal. NE Millas St. E Ca-
brillo Blvd.
Three-story Class C brick and con-
crete apartments (240x200 feet)
(200 rooms).

Owner—C. W. Ross et al.
Architect—Walker & Elsen, Western
Pacific Bldg., Los Angeles.

Prospective Bidders.

APARTMENTS Cost, \$200,000
BERKELEY, Alameda Co., Cal. Sac-
ramento St. and University Ave.
Three-story class C brick apartments
(56 2- 3- and 4-room apts.)

Owner—Davis-Pearce Co., Grant and
Weber Sts., Stockton.
Architect and Manager of Construc-
tion—Davis-Pearce Co., Grant and
Weber Sts., Stockton.

Following are the general contrac-
tors who are figuring the plans:
H. L. Petersen, 731 Treat Ave., San
Francisco.

Monson Bros., 475 6th St., San Fran-
cisco.

Wm. Horstmeyer, 461 Market St.,
San Francisco.

G. F. W. Jensen, 320 Market Street,
San Francisco.

Preparing Preliminary Sketches.

APARTMENTS Cost, \$200,000
SAN FRANCISCO Van Ness Ave.
District.

Six-story and basement Class C con-
crete and steel frame apartments
(36 2, 4 and 5 room apts.)

Owner—Withheld.
Plans by Lawrence Ebbetts, 320 Ful-
ton St., San Francisco.

Will have incinerator, elevator, 10-
year composition roof, steam heating
system, etc.

Plans Being Prepared.

APARTMENTS Cost, \$—
LOS ANGELES, Cal. No. 682 Irolo
Street.

Six-story and basement Class A re-
inforced concrete apartments.

Owner—Picadilly Holding Co.
Architect—Milton M. Friedman, Rives
Strong Bldg., Los Angeles.

Plans Being Completed.

APARTMENTS Cost, \$175,000
SAN FRANCISCO, Green Street near
Octavia Street.

Six-story Class A steel frame and
concrete apartments (112 rooms).

Owner and Builder—F. L. Hansen, 282
Seventh St., San Francisco.

Engineer—John C. Little & Co., 251

A Demonstration of the SKILSAW PORTABLE ELEC- TRIC HAND SAW

Will solve your cutting problems.
(Four Models, 1/2 to 1 h. p.)

ELECTRIC HAMMERS
ELECTRIC DRILLS
GRINDERS, BUFFERS

PETER H. NELSON

Labor Saving Portable Electric
Tools.

1248 Mission St. Underhill
San Francisco 7662

Kearny St., San Francisco.
Sub-bids will be taken within a few
days.

Contracts Awarded.

APARTMENTS Cost, \$20,000
EMERYVILLE, Alameda Co., Cal.
One-story and basement frame, and
stucco apartments (six four-room
apts.; Spanish type).

Owner—Mrs. O. H. Reese.
Architect—George Ellinger, 1723 Web-
ster St., Oakland.

Carpentry—Jake Olson, 2422 Wilbur
St., Oakland.

Concrete Work—Norman McLeod, 1163
Wellington, Oakland.

Plastering—Tim Sexton, 354 Hobart
St., Oakland.

Roofing—General Roofing Co., 3985
Beach St., Oakland.

Sheet Metal—City Cornice Works, 3119
San Pablo Ave., Oakland.

Ornamental Iron—C. Frauneder, 335
8th St., Oakland.

Finish Hardware—Associated Hard-
ware Co., 3560 San Pablo Avenue,
Oakland.

Tile—Rigney Tile Co., 3012 Harrison
St., Oakland.

Hardwood Floors—Lavenda Eros.
Refrigeration—Hollbrook, Merrill and
Stetson, 665 6th St., San Francisco

Electric Wiring—Scott - Butner Elec.
Co., 19 Grand Ave., Oakland.

Painting—Chas. Mathews.

Other awards will be made at a la-
ter date.

Plans Being Revised.

APARTMENTS Cost, \$250,000
VALLEJO, Solano Co., Cal. Sonoma
and Capitol Streets.

Six-story and basement Class C con-
crete apartments (60x132 ft.: 72 2,
3 and 4-room apts.; tile roof).

Owner—Dr. Burton Jones, 327 Georgia
St., Vallejo.

Plans by A. J. Mazurette, 576 Fifth
St., Oakland.

Segregated bids are being received

BONDS

SACRAMENTO, Cal.—Board of Ed-
ucation, C. C. Hughes, secretary, will
call an election shortly to vote bonds
of \$2,000,000 to finance erection of new
schools and additions and alterations
to standing school buildings. The ten-
ative program of the school depart-
ment provides that the junior high
schools be housed in structures sepa-
rate from the elementary school build-
ings. Many of the junior high schools
now are housed in grammar school
buildings because of lack of necessary
buildings.

CHURCHES

Preparing Preliminary Plans.

BIBLE SCHOOL Cost, \$—
PORTERVILLE, Tulare Co., Calif.

Two-story and basement reinforced
concrete bible school and modern-
izing present church.

Owner—First Methodist Church of
Porterville.

Architect—Robert H. Orr, Corporation
Bldg., Los Angeles.

Exterior and interior of the present
building will be remedied, involving
excavating, exterior stucco, plastering,
art glass, redecorating, enlarging ban-
quet hall and the installation of a fully
equipped kitchen. Bible school will
be a two-story and basement struc-
ture, providing for 750 pupils; rein-
forced concrete construction, composi-

tion roofing, treated exterior, blackboards, steel sash, oil burning hot air heating and ventilating system.

MARYSVILLE, Yuba Co., Cal.—Rev. Victor Halboth, pastor of the First Lutheran Church, has appointed a building committee to work out means to finance erection of a new edifice. Committee consists of E. Lang, Fred Heitman and F. W. Stohlman.

Working Drawings Being Prepared.
CHURCH Cost, \$40,000
SAN MATEO, San Mateo Co., Calif.
San Mateo Drive.
One-story frame and stucco church with tile roof (auditorium to seat 350).

Owner—First Congregational Church.
Architect—Kent and Hass, 525 Market St., San Francisco.

Present organ is to be used. Plans will be ready for bids in about thirty days.

Preparing Working Drawings.
CHURCH Cost, \$500,000
WEST LOS ANGELES, Cal. Selby and Ohlo Avenues.

Reinforced concrete church plant (auditorium to seat 1300).
Owner—Roman Catholic Bishop of Los Angeles and San Diego.
Architect—Newton & Murray, Architects Bldg., Los Angeles.

Preparing Preliminary Plans.
CHAPEL Cost, \$100,000
WEST LOS ANGELES, Cal. Hilgard Avenue.

Reinforced concrete memorial chapel.
Owner—University of California
Architect—Reginald D. Johnson, Architects Bldg., Los Angeles.

Contract Awarded.
ORGAN CASE Cost, \$3022
SAN FRANCISCO, St. Dominics Church.
New organ case.
Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.
Architect—Arnold Constable, 580 Market St., San Francisco.
Contractor—Brass & Kuhn, 1917 Bryant St., San Francisco.

Plans Being Completed.
CHURCH Cost, \$70,000
OAKLAND, Alameda Co., Cal. Emerson and Excelsior Aves.
Reinforced concrete church.
Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.
Architect—W. E. Schirmer, 700 21st St., Oakland.
Bids will be taken in about 30 days.

FACTORIES AND WAREHOUSES

Plans Being Figured — Bids Close Nov. 3.
STORAGE BLDGS. Cost, \$12,000
OAKLAND, Alameda Co., Cal. Elmwood Ave., bet. 29th and Fruitvale Avenues.
Two one-story concrete storage buildings.
Owner—Morris Dreying Co., 101 Webster St., Oakland.
Architect—R. C. Schuppert, 4637 Park Blvd., Oakland.

Sub-Bids Being Taken.
WAREHOUSE Cost, \$30,000
SAN FRANCISCO, NW Carroll and Newhall Streets.
One-story steel frame and concrete warehouse (south side crane and runway).
Owner—Truscon Steel Co., Call Bldg., San Francisco.

Architect—Eng. Dept. of Owner.
Contractor—MacDonald & Kahn, Financial Center Bldg., San Francisco.

Plumbing—George Weinholtz, 1450 Howard St., San Francisco.
Sub-bids are being taken on other portions of the work.

Completing Plans.
WAREHOUSE Cost, \$100,000
TERMINAL ISLAND, Los Angeles Co.
One-story reinforced concrete warehouse (40,000 sq. ft.).
Owner—Crescent Wharf & Warehouse Co., Berth 233, San Pedro.
Architect—J. C. Longueville and T. J. Scott, Associated, 1616 Chelsea Rd., San Marino.

Sub-Contracts Awarded.
INDUSTRIAL BLDG. Cost, \$15,000
SAN FRANCISCO, SE Fifth and Folsom Sts.
One-story and mezzanine floor reinforced concrete industrial building.
Owner—Louis Lurie, 315 Montgomery St., San Francisco.

Architect—S. Heiman, 57 Post St., and O'Brien Bros. & W. D. Feugh, 315 Montgomery St., San Francisco.
Contractor—Louis J. Cohn, 1 De Haro St., San Francisco.
Steel—Schraeder Iron Works, 1247 Harrison St., San Francisco.
Plastering—Harry Liston, 117 29th Ave., San Francisco.

As previously reported, electrical work awarded to W. H. Morgan, 2241 15th St., S. F.; plumbing to Thomas Skelly, 1344 Ninth Ave., S. F.; reinforcing steel and steel sash to Truscon Steel Co., Call Bldg., S. F.
Other awards will be made shortly.

Contract Awarded.
COTTAGE, ETC. Cost, \$13,863
IDLEWILD, Del Norte Co., Cal.
Superintendent's cottage, bunk house, truck shed, combination wood shed, septic tank and station sign for highway maintenance station.
Owner—State of California.
Architect—State Department of Public Works, State Office Bldg., Sacramento.
Contractor—Oliver S. Almlie, 709 N. Fifth St., Grants Pass, Ore.

EUREKA, Humboldt Co., Calif.—Harris Sheet Metal Works, Eureka, at \$875 awarded contract by city council to construct corrugated iron roof on shed of Municipal Water Department.
Ohman Hardware Co., Eureka, at \$982.50, only other bidder.

GLENDALE, Ariz.—Dudley R. Webster, 1439 N. Second St., Phoenix, has purchased Armour & Company creamery plant here. It is understood new equipment will be installed after January 1 to cost \$125,000.

Contract Awarded.
SLED, ETC. Cost, \$3300
ROSEVILLE, Placer Co., Cal.
Truck shed, gasoline and oil house for highway maintenance station.
Owner—State of California.
Architect—State Department of Public Works, State Office Bldg., Sacramento.
Contractor—Yoho & Dauger, Sacramento.

Contract Awarded.
HANGAR Cost, \$35,000
SACRAMENTO, Sacramento Co., Cal.
Freepport Blvd. at Municipal Airport.
Steel frame and wood hangar and air terminal station 80x100-ft.
Owner—City of Sacramento (to be leased to Boeing Air Transport Company).
Architect—Harry Devine, 1405 41st St., Sacramento.
Structure will be of steel frame and wood construction covering an area of 80 by 100 ft. with an exterior covering of corrugated iron.

Plans Complete.
WAREHOUSE Cost approx. \$150,000
SAN FRANCISCO, Sanome and Val-lejo Sts.
Three-story reinforced concrete warehouse.
Owner—Poultry Producers of Central California, 700 Front St.
Architect—H. C. Haumann, 251 Kearny Street.
Bids will be taken in about 1 week.

Contract Awarded.
COTTAGE, ETC. Cost, \$10,644
GAREBIRVILLE, Humboldt Co., Cal.
Superintendent's cottage, office and store house, bunk house, combination wood shed and garage, gasoline and oil house, septic tank and station sign for highway maintenance station.
Owner—State of California.
Architect—State Department of Public Works, State Office Bldg., Sacramento.
Contractor—McCarthy & Johanns, 1363 14th Ave., San Francisco.

Plans Being Prepared.
WAREHOUSE Cost, \$30,000
SAN FRANCISCO, NW Carroll and Newhall Streets.
One-story steel frame and concrete warehouse (south side crane and runway).
Owner—Truscon Steel Co., Call Bldg.
Architect—Eng. Dept. of Owner.
Contractor—MacDonald & Kahn, Financial Center Bldg.

To Be Done By Day's Work.
SHELTERS Cost, \$25,000
SAN FRANCISCO, Fifth Street bet. King and Berry Sts.
Two one-story reinforced concrete shelters.
Owner—Southern Pacific Co., 65 Market Street.
Plans by Eng. Dept. of Owner (J. H. Christie, engineer, 65 Market St.)

Plans Being Completed.
SERVICE BLDGS. Cost, \$45,000
REDWOOD CITY, San Mateo Co., Cal.
Group of service bldgs. (wood frame and tile walls).
Owner—Pacific Gas & Electric Co., 245 Market St., San Francisco.
Plans by Eng. Dept. of Owner.
Group includes warehouse, garage, service departments, superintendent's offices, etc. Bids will be taken in about two weeks.

Sub-Bids Being Taken.
ALTERATIONS Cost, \$8000
SAN FRANCISCO, S Pacific W Sanome Street.
Alterations to warehouse.
Owner—Tea Garden Products Co.
Plans by Austin Co. of California.
Contractor—Austin Co. of California, 720 Ray Bldg., Oakland.
Reinforcing Steel—Gunn, Carle & Co., Ltd. 444 Market St.
Sub-bids are being taken on other portions of the work.

Plans Being Prepared.
MFG. PLANT Cost approx. \$300,000
SOUTH GATE, Los Angeles Co., Cal.
Quartz manufacturing plant.
Owner—Philadelphia Quartz Co. (A. W. Elkinton, vice president), 6th and Grayson Sts., Berkeley.
Architect—Eng. Dept. of Owner (W. E. Lyons, engineer).
There is to be a manufacturing building, a warehouse and an office building. Plans provide for steel frame construction with either corrugated iron or brick side walls, composition roofing, steel sash, cement floors, etc.

Plans Being Refigured — Bids Close Nov. 25, 2 P. M.
SHED, ETC. Cost, \$—
IONE, Amador Co., Cal. Preston State School of Industry.
One-story balcony brick shop building with steel roof construction and slate roof, floor area 3,000 sq. ft., and two-story and part basement brick and frame superintendent's cottage (18 rooms).
Owner—State of California.
Architect—State Department of Public Works, Division of Architects.

ture, Public Works Building, Sacramento.
 tement hid on general work was submitted by Lindgren & Swinerton, Inc., 255 Bush St., San Francisco, at \$30,497; on electrical work, Collins Electric Co., Stockton, at \$1,931; on plumbing, heating and ventilating, L. H. Dullman, Sacramento, at \$9,935; on mechanical work, Latourrette - Fical Co., Sacramento, at \$11,950.

GARAGES AND SERVICE STATIONS

Reinforcing Steel Contract Awarded.
 ALTERATIONS Cost, \$12,000
 SAN FRANCISCO. SE Polk St. and Pacific Avenue.
 Alterations to garage, new walls, partitions, etc.)
 Owner—Bothin Real Estate Co., 604 Mission St., San Francisco.
 Engineer—N. B. Green, Sharon Bldg., San Francisco.
 Contractor—F. R. Siegrist, 604 Mission St., San Francisco.
 Reinforcing Steel—W. C. Hauck & Co., 230 San Bruno Ave., San Francisco
 Sub-bids are being taken on other portions of the work.

Preliminary Sketches Being Prepared.
 STORES Cost, \$31,000
 OAKLAND, Alameda Co., Cal. Exact Location Withheld.
 One-story brick or hollow tile store and garage (5 stores).
 Owner—Withheld.
 Architect—Claude Barton, 522 Grand Ave., Oakland.

Plans Being Completed.
 SALESROOM, ETC. Cost, \$20,000
 SAN FRANCISCO. Location Withheld.
 One-story brick salesroom and service station.
 Owner—Withheld.
 Architect—James S. Arnold, 417 Market St., San Francisco.
 Engineer—W. Adrian, 417 Market St., San Francisco.
 Bids will be taken within one week. Other buildings of the same type will be constructed out of town at a later date.

Plans Completed.
 GARAGE Cost, \$125,000
 LOS ANGELES, Cal. No. 1407 N. Gower Street.
 One-story Class A reinforced concrete and brick garage (153x156 ft.)
 Owner—Southern California Telephone Co., 740 S. Olive St., Los Angeles.
 Architect—Eng. Dept. of Owner.
 Building permit applied for.

Sub-Contracts Awarded.
 GARAGE Cost, \$53,500
 FRESNO, Fresno Co., Cal. Lots 29, and 32 Block 96.
 Garage and service building.
 Owner—Richfield Oil Company.
 Architect—Rafael Lake, Pacific Southwest Bldg., Fresno.
 Contractor—Shields, Fisher and Lake, Pacific Southwest Bldg., Fresno.
 Steel—Kyle & Co., 346 G St., Fresno.
 Lumber—Valley Lumber Co., H and Mono Sts. Fresno.
 Reinforcing Steel—O. M. Brockliss, 1837 Merced St., Fresno.
 Concrete Materials—Thompson Bros., 2150 G St., Fresno.
 Carpentry, concrete and brick work will be done by general contractor.

Construction Postponed Indefinitely.
 GARAGE Cost, \$—
 SAN FRANCISCO, S Stevenson St. E Sixth Street.
 Fireproof garage (160 ft. frontage).
 Owner—Elmer B. Stone and Nellie C. Harris, Hobart Bldg., San Francisco.
 Architect—Not Selected.

SALINAS, Monterey Co., Cal.—Construction has been started on a \$12,000 distributing plant for the Gilmore Oil Co. on the Los Angeles Highway just south of the Sprinkles Road Junction. The work is under the supervision of W. H. Carr, division engineer for the Gilmore Company, and will consist of a 4-stall garage, office building, gasoline storage tank and warehouse.

Contract Awarded.
 GARAGE Cost, \$20,000
 STOCKTON, San Joaquin Co., Cal. Center and Hazelton Sts.
 One-story reinforced concrete garage (100x175 ft.)
 Owner—Pacific Gas & Electric Co., 245 Market St., San Francisco.
 Plans by Eng. Dept. of Owner.
 Contractor—J. A. Allen, 523 E-Market St., Stockton.

Contract Awarded.
 SERVICE STATION Cost, \$8000
 SAN FRANCISCO. Gore corner Junipero Serra Blvd. and 19th Ave.
 Class C service station (tire service building, rest room, etc.)
 Owner—Standard Oil Co. of California, 225 Bush St.
 Plans by Eng. Dept. of Owner.
 Contractor—Lindgren and Swinerton, Inc., 225 Bush St.

GOVERNMENT WORK AND SUPPLIES

WASHINGTON, D. C.—(By Special Wire)—Schuler & McDonald, Inc., 1723 Webster St., Oakland, at \$80,344 submitted low bid to Bureau of Yards and Docks, Navy Department, Oct. 29, under Specification No. 6319, to erect greenhouse at Naval Ammunition Depot at Hawthorne, Nevada. A complete tabulation of the bids received on this project will be published shortly. The work will involve furnishing and erecting a structure, 18 by 75 ft. and includes concrete foundations, plant and work benches, plumbing, heating and lighting.

WASHINGTON, D. C.—(By Special Wire)—Automatic Electric Co., Chicago, Ill., at \$9255 submitted low bid to Bureau of Yards and Docks, Navy Department, October 29, under Specification No. 6302, to furnish and install dial type telephone, two central office equipments (complete), storage batteries, rectifiers and power connections and changing of two existing telephone systems from manual to automatic operations at the naval ammunition depot, Puget Sound, Washington, and Pacific Coast torpedo station, Keyport, Wash. A complete list of the bids received will be published shortly.

SACRAMENTO, Cal.—Until Nov. 10, 3 P. M., under Order No. 2581-1725, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver Rio Vista, Solano county, 680 sacks of Portland Cement, approx. 94 lbs. to sack. To be delivered in paper sacks.

SACRAMENTO, Cal.—Until Nov. 7, 3 P. M., under Order No. 2579-WMC.68 bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver f.o.b. Stockton, one new automobile for transportation of surveyors and instruments in Ford and vicinity. To be equal to Ford "Station Wagon," canopy top with baggage rack, seating 8 passengers, including driver. Bid in excess of \$800 will not be considered.

SACRAMENTO, Cal.—Until Nov. 10, 3 P. M., under Order No. 2580-1725,

bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver Rio Vista, Solano county, 115 cu. yds. river gravel, all smaller than 2-inch sieve.

SACRAMENTO, Cal.—Until Nov. 7, 3 P. M., under Order No. 2582-1716, bids will be received by U. S. Engineer Office, California Fruit Bldg., for the sale of one used G. M. C. Army truck, ¾-ton capacity, 1916 Model, Motor No. 72182. May be inspected on application to U. S. Engineer Office at Rio Vista.

SACRAMENTO, Cal.—Until Nov. 7, 3 P. M., under Order No. 2585-1716, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver Rio Vista, Solano county, one new automobile for transportation of surveyors and instruments: to be similar and equal to Ford "Station Wagon," canopy top with baggage rack, seating 8 passengers, including driver. Allowance to be made for a Model 1916 G.M.C. Army Truck, ¾-ton, Motor No. 72182. Bids in excess of \$800 will not be considered.

SACRAMENTO, Cal.—Until Nov. 12, 3 P. M., under Order No. 2584-1727, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver Rio Vista, Solano county:

Two right hand and two left hand Ashton Rectangular Revolution counters, resetting, 10-in. by 2 ½-in. 7 figures. No. 65, page 82, Warren and Bailey Co. Cat. B, or equal.

One Thermometer, straight stem, with ¾-in. pipe thread connection, 9-in. scale, 30 to 160 degree range. No. 62, page 78 Warren & Bailey Cat. B, or equal.

One Thermometer, as above, except 30 to 240 degree range.

SAN FRANCISCO.—D. N. and E. Walter, 562 Mission St., at \$726.85 awarded contract by Constructing Quartermaster, Fort Mason, to furnish and install linoleum in Isolation Ward Building No. 55 at the Letterman General Hospital.

SAN FRANCISCO.—Until November 3, 10 A. M., under Schedule No. 928-31-104, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver:

2000 steel, hexagon head, machine bolts;

5 reversible, riveted, hot rollers: 18 Brentwood Vienna Chairs, mahogany finish;

5046 pieces Crockery, full vitrified American China;

5580 lbs. boiler compound;

Miscellaneous paints, ready mixed;

5000 ft. plough steel wire rope, ¾ inch dia;

2000 lbs. furnace, plastic cement. "Pibrico" or equal;

72 machinists chisels;

Miscellaneous electrical equipment and plumbing supplies;

1250 malleable iron pipe fittings;

Miscellaneous kitchen equipment and supplies;

300 lb. brass pipe;

1100 ft. wrought iron pipe.

Specifications obtainable from Quartermaster Supply Officer, Fort Mason.

Preliminary Plans Being Prepared.

RECONSTRUCTION Cost, \$75,000
 OAKLAND, Alameda Co., Cal. Appraisers Building.

Reconstruct Appraisers Building.
 Owner—United States Government.

Architect—Wm. A. Newman, Main Post Office Bldg., Seventh and Mission Sts., San Francisco.

SACRAMENTO, Cal.—Until November 3, 3 P. M., under Order No. 2555-1710, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver Rio Vista, Solano County:

208 sheets corrugated iron galv., No. 22 gauge, 10 ft. long by standard width.

208 sheets corrugated iron, galv., No. 22 gauge, 8 ft. long by standard width.

240 sheets flat iron, galv., No. 24 gauge, 10 ft. long by 36" wide.

36 sheets flat iron, galv., No. 16 gauge, 10 ft. long by 48" wide.

105 ft ridge roll, galv., 5" wings, 3" roll, made out of No. 22 gauge.

2 ventilators, 24", made from 22 gauge galv. iron.

1 stately hasp, plain steel, bright, with screws, length of strap 6".

1 keg roofing nails, barbed, galv., 2" by No. 9, 100 lbs. to keg.

150 bolts, machine, square heads and coldpressed hex, nuts, size $\frac{1}{2}$ "x18".

190 do, size, $\frac{3}{4}$ "x18".

220 do $\frac{1}{2}$ "x9".

72 lag screws, $\frac{1}{2}$ "x3 $\frac{1}{2}$ ".

220 galv washers, $\frac{1}{2}$ ", out of plate 3"x3" bq 3/16" thick.

3 pieces angle iron, 22" long, 8"x8"x $\frac{1}{2}$ ", 26.4 lbs. per foot.

110 pieces steel plate, 18"x18"x $\frac{1}{4}$ " thick.

25 lbs. roofing washers, for "roofing nails," Item 8 above Pg. 454 Thomson-Diggs Co. Cat. #26, or equal.

Early delivery is a matter of importance and is desired five days after notification of award.

CAVITE, P. I.—Bureau of Yards and Docks, Navy Department, Washington, D. C., will ask bids shortly, under Specification No. 6187, for reciprocating air compressors at the Naval Station, Cavite, P. I. The project involves the furnishing and installation of motor driven and steam driven air compressors on foundations to be furnished by the Government. Applications for plans may be filed with the Commandant, Mare Island Navy Yard, accompanied by checks for \$5, payable to Chief of the Bureau of Yards and Docks. The deposit is returnable.

Bids Opened.
GARAGE Cost, \$—
LIVERMORE, Alameda Co., Cal.—U. S. Veterans' Hospital Grounds. Construct six 2-car garages and one 1-car garage.

Owner—United States Government.
Architect—Supervising Superintendent of Construction, U. S. Veterans' Hospital, Palo Alto.

This work consists of excavating, concrete floor, wall construction consisting of either 6-in. reinforced concrete; 8-in. concrete blocks, or 6-in. hollow tile, carpentry, millwork, hardware, built-up roofing, flashing, painting, glazing, stuccoing and finished grading.

Following is a complete list of bids received:

(a) Hollow Tile; (b) Concrete; (c) deduct for omitting stucco finish:

A. Frederick Anderson, 1093 Longridge Road, Oakland, (a) \$4108;

(c) \$135.

Sullivan & Sullivan, Oakland (a) \$4875; (c) \$350.

O. A. Farringer, Alameda (a) \$4536; (b) \$4908; (c) \$375.

The Milton Co., Palo Alto (a) \$5095; (c) \$300.

Peter C. Madsen (a) \$5381; (c) \$481.

David Nordstrom, Oakland (a) \$5890; (c) \$493.

C. A. Bruce & Son, Pleasanton (b) \$5962; (c) \$400.

Chas. Koenig, Alameda (a) \$6364.

Sorensen & Haggmark, San Francisco (a) \$6509; (c) \$475.

C. Dudley De Velibus, San Francisco, (a) \$7125; (c) \$650.

George Moore, Palo Alto (a) \$8370; (c) \$540.

Bilrite Constr. Co., Berkeley (a) \$8991; (c) \$510.

Bids referred to Washington for award.

STOCKTON, San Joaquin Co., Cal.—Until November 7, 3 P. M., under Circular Proposal No. 31-113, Specifications No. 2510-1670, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, for constructing certain levees or embankments along the San Joaquin River, the closest item of work being located about 10 miles, and the most remote item being located about 20 miles below the City of Stockton, in connection with the construction of the 26-ft. channel project in the San Joaquin and Stockton Channel. Specifications obtainable from above office.

Plans Being Figured—Bids Close Nov. 18, 11 A. M.

NURSES' QUARTERS Cost, \$—
FORT LEWIS, Washington.

Two-story and basement brick and frame nurses' quarters, 108x32-ft.

Owner—U. S. Government.
Architect—Constructing Quartermaster, Fort Lewis.

Hot water heating system will be installed. Plans obtainable from Constructing Quartermaster at Fort Lewis on deposit of \$15, returnable.

SACRAMENTO, Cal.—Until Nov. 3, 3 P. M., under Order No. 2568-1725, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver Rio Vista, Solano County:

Five lengths pipe, black, heavy 1 $\frac{1}{2}$ -in. Six ells, black, heavy 1 $\frac{1}{2}$ -in.

Six tees, black, heavy 1 $\frac{1}{2}$ -in.

75 ft. pipe covering, 1 $\frac{1}{2}$ -in., asbestos 85% magnesia.

One regulating valve, 1 $\frac{1}{2}$ -in., Mason, gradual opening, seat, bronze body.

Monel parts, union connections. Style D H L, page 123 Mason Catalog No. 62, or equal.

SAN FRANCISCO.—Until Nov. 26, bids will be received by the Federal Government to furnish site, erect and lease to the Postoffice Department, a part one- and two-story brick and concrete garage at Main, Beale and Harrison Sts. from plans prepared by Government architects. The structure will cost \$200,000. The bids will be opened in Washington, D. C. Plans and complete information are obtainable from E. P. Smith, Postoffice Inspector, Federal Bldg., San Francisco.

Plans Being Figured—Bids Close Nov. 14th.

QUARTERS Cost, \$—
WHEELER FIELD, T. H. Schofield Barracks.

Forty-nine sets of noncommissioned officers' quarters and one bachelor noncommissioned officers' building, including all grading and utilities therefor.

Owner—U. S. Government.
Architect—Department Quartermaster Construction Division, Ft. Shafter, T. H.

Bids are being received by the Department Quartermaster at Ft. Shafter from whom plans may be obtained on deposit of \$100, returnable.

CARLSBAD CAVERNS, N. M.—Until 2 P. M., Nov. 25, bids will be received by the U. S. Department of Interior, Field Headquarters, National Park Service, 409 Underwood Bldg., San Francisco, for constructing an elevator shaft at Carlsbad Caverns National Park, Carlsbad, N. M. Work includes a vertical shaft 750 ft. deep with neat dimensions of 14 ft. 3 in. by 6 ft. 10 in., involving about 3000 cu. yds. solid rock excavation, about

20 tons steel track supports and concrete and rubble lining. Steel and cement will be furnished by the government. Bids for elevators, machinery and guides will be taken separately. Plans on request from Thor Bolen, superintendent of the park or chief engineer, F. A. Kittredge, San Francisco.

WASHINGTON, D. C.—Bids are being received by Bureau of Supplies and Accounts, Navy Department, Washington, D. C., to furnish and deliver miscellaneous supplies and equipment as noted in the following schedules, further information being available from the Navy Department Officer, 100 Harrison St., San Francisco:

Bids Open November 11
Western yards, steel wire nails, sch. 4327.

Mare Island, 600 lbs. asbestos packing rope, sch. 4366.

San Diego, 166 sheets non-scatterable glass, sch. 4359.

Puget Sound or f. o. b. works, 1 structural steel support, approximately 60,000 lbs., sch. 4349.

San Diego or f. o. b. works, 8,000 gals. nitrate dope and 400 gals. thinner, sch. 4353.

Puget Sound, 17,000 ft. boat plank—ing, sch. 4337.

Western yards, window and plate glass, sch. 4360.

Mare Island, 2,155 sq. ft. white floor tile, sch. 4361.

Western yards, cotton, rubber hose and linen, sch. 4363.

Mare Island, 1 motor driven saw trimmer, sch. 4309.

Western yards, radio transmitting equipment and spares, sch. 4314.

Western yards, fuses and fuse elements, wire, fuse, sch. 4333.

Western yards, wire, brass, copper, bronze and steel, etc., sch. 4364.

Western yards, Portland cement, sch. 4369.

Hawthorne, Nev., 1 crawler tractor, motor driven, sch. 4376.

Newport News and Mare Island, 2 automatic printing presses, 2 proof presses, 2 motor driven printing presses, 2 punching machines, 2 motor driven paper cutters, 2 motor driven wire stitchers, 2 type cabinets, 2 imposing tables, 2 motor driven saw trimmers, 2 galley storage cabinets, and Philadelphia, 1 press attachment, sch. 4384.

San Francisco, 1 photomicrometallograph, sch. 4382.

San Francisco, 1 magnetic automatic type grinding and polishing machine, sch. 4381.

Bids Open November 18
San Diego, 1 motor driven press, sch. 4385.

Hampton Roads or San Francisco, 1 impact testing machine, 1 testing attachment and 1 marking block and dial extensometer for determining the elastic limit of metals, sch. 4394.

SACRAMENTO, Cal.—Until Nov. 6, 3 P. M., under Order No. 2571-1765, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver Rio Vista, Solano County:

1680 lbs. marine glue, in 112 lb. boxes, black, Jeffrey's No. 3, or equal.

60 ft. water hose, black rubber 1 $\frac{1}{2}$ -in., 4 ply, for 150 lb. working pressure with 1 $\frac{1}{2}$ -in. pipe thread couplings attached.

24 oars, 8-ft. best grade ash, battered but no tips.

10 ft. leader air hose, best quality, plain, flexible, for 100 lb. working pressure, 1 $\frac{1}{2}$ -in., no fittings.

2 kegs black spikes, galv. 5-16-in. by 5-in., 100 lbs. to keg.

2 kegs black spikes, galv. 5-16-in. by 6-in., 100 lbs. to keg.

Bids Opened.
EXTENSION
OGDEN, Utah. Cost, \$—
Postoffice extension.
Owner—U. S. Government.
Architect—Supervising Architect,
Treasury Dept., Washington, D. C.
Low Bidder—Murphy Bros. Const. Co.,
St. Louis, Mo., at \$254,000.
Following is a complete list of bids:
Murphy Bros. Const. Co., St. Louis,
\$254,000.
Wm. MacDonald Const. Co., St.
Louis, \$258,300.
Jas. J. Burke & Co., Salt Lake City,
Utah, \$267,355.
Chas. Weitz's Sons, Des Moines, Ia.,
\$282,765.
Jacobsen Const. Co., Salt Lake City,
Utah, \$284,260.
Campbell Bldg. Co. of Utah, Salt
Lake City, \$294,679.
Mead & Mount Const. Co., Denver,
Colo., \$299,960.
W. D. Lovell, Minneapolis, Minn.,
\$302,700.
Yeager & Sons, Danville, Ill., \$309-
892.
Jas. Devault, Canton, Ohio, \$315-
722.
Ring Const. Co., Minneapolis, Minn.,
\$315,800.
C. F. Dunsmore & Co., Ogden, Utah
\$317,000.
Geo. A. Whitmeyer & Sons Co., Og-
den, Utah, \$319,995.
Schuler & McDonald, Inc., Oakland,
Calif., \$339,700.

MARE ISLAND, Cal.—Bids will be
asked shortly by the Bureau of Yards
and Docks, Navy Department, Wash-
ington, D. C., under Specification No.
6310, for a 40-ton electric gantry crane
and runway at the Mare Island Navy
Yard. Individuals or firms desiring
bidding data should forward to the
Commandant, Navy Yard, Mare Island
a check or postal money order for
\$5, payable to the Chief of the Bu-
reau of Yards and Docks, as security
for the safe return of the drawing
and specifications, with request that
they be furnished them. Applications
and deposits will be placed on file,
and the drawing and specification
mailed as soon as they are available.

SACRAMENTO, Cal.—Until Nov. 6,
3 P. M., under Order No. 2569-1710,
bids will be received by U. S. En-
gineer Office, California Fruit Bldg.,
to furnish and deliver Rio Vista, Solano
county:

One Window, steel sash, size of op-
ening, 3x6-ft., complete with steel
frame, 12 lights, 4 high by 3 wide,
frosted panes, middle 6 panes to open
out.

Five Windows, as above, except to
have clear panes.

Thirty-one Windows, steel sash,
size of opening, 3x6-ft., to be complete
with steel frame, 12 lights, 4 high by
3 wide, clear panes; solid, no panes to
open out.

Sixteen Windows, as above except
size of opening 3x3-ft., 9 lights, 3
high by 3 wide.

Six pair Barn Door Hangers, adjust-
able, to run inside of tubular track;
Meyers No. 12 or equal, Page 1018,
Thomson-Diggs Cat. No. 26.

Six pos. Tubular Track for above
hangers, 8-ft. long.

Three pcs. do, 6-ft. long.

Three pcs. do, 4-ft. long.

Three End Brackets, for above,
right hand.

Three End Brackets, for above,
left hand.

Twenty-one Intermediate Brackets,
for above.

Five Foot Bolts, wrought steel, 10-in.
long, complete with screws and strike
for concrete. No. 1057J, or equal,
Page, 987, Thomson-Diggs Cat. No.
26.

Six Door pulls, 6-in. long, complete
with screens, No. 382Z-3, or equal,
Page 966, Thomson-Diggs Cat. No. 26.

Three pair Butts, loose pin, self-
lubricating, steel bushed 3/4x3 1/2-in.,
5 knuckles, ball tips, self retaining
steel pins, polished cast bronze, com-
plete with screws.

Three sets Inside Door Lock Sets,

complete, finish dull brass, Set No.
1129, or equal, Page 919, Thomson-
Diggs Cat. No. 26.
One Night Latch, Yale Spool-atch
Co. 36, or equal, Page 934, Thomson-
Diggs Cat. No. 26.

SAN FRANCISCO.—Until Nov. 4,
10 A. M., under Schedule No. 928-31-
113, bids will be received by Quar-
termaster Supply Officer, General Depot,
Port Mason, to furnish and deliver:

24 flat top office tables; 6-in. long,
29-in. wide, 29-in. high; sugar pine top
1 1/2-in. thick; balance of O. P.

Miscellaneous quantity of O. P.,
Douglas Fir and Sugar Pine Lumber.

One portable electric sewing ma-
chine; equal and similar to Model 99-
13 of Singer Mfg. Co.

Further information obtainable from
above.

HALLS AND SOCIETY BUILDINGS

BURLINGAME, San Mateo Co., Cal.
—Elmer A. Roberts, chairman of a
Citizens' Committee featuring the
San Mateo County Floral Show, ad-
vocates the erection of an auditorium
to house the annual flower festival.
The structure, according to tentative
proposals, could be financed by special
tax levy over a period of about five
years. The city councils of San
Mateo county cities, the county su-
pervisors and civic organizations will
be asked to sponsor the project.

Plans Being Completed.
CLUBHOUSE Cost, —
SALADA BEACH, San Mateo Co.,
Cal Sharp's Park.

One-story frame and stucco clubhouse.
Owner—City and County of San Fran-
cisco (Park Commission).

Architect—Willis Polk Co., 277 Pine
St., San Francisco.

Bids will be taken in one week or
ten days.

Contemplated.
REMODELING Cost, \$—
SAN FRANCISCO. NE Taylor and
Post Streets.

Entire remodeling of present club.
Owner—Bohemian Club (George Van
Smith, G. Acrey and Geo. Henry
comprise the building committee).

Architect—Not Selected.

Exact amount of money to be ex-
pended has not been determined.

HOSPITALS

WEIMAR, Placer Co., Cal.—Yoho &
Daugu, 3419 4th Ave., Sacramento,

awarded the following sub-contracts in
connection with the construction of a
one-story frame cottage for children
at Weimar. Harry J. Devine, archi-
tect, 1400 California State Life Bldg.,
Sacramento, Cost, \$9677.

Lumber, Cement, Concrete and Roof-
ing—Auburn Lumber Co., Auburn.

Mill Work—Bennett & Son, Auburn.

Painting—A. H. Davies, 605 W. Fre-
mont St., Stockton.

Plumbing—Johnson Hardware Co. Au-
burn.

Electrical Work—Jack Thomas, 3216
L St., Sacramento.

Completing Plans.
CLINIC Cost, \$—
LONG BEACH, Los Angeles Co., Cal.

Fourteenth and Magnolia Ave.
One-story and basement brick clinic
(104x73 feet).

Owner—Dr. R. W. Wilcox and Dr. C.
G. Johnson.

Architect—Kenneth S. Wing, 1345 W.
Ocean Ave., Long Beach.

CALIFORNIA—Permanent improve-
ments planned at state hospitals and
homes will involve an expenditure of
\$2,131,000 during the next biennium, it
is announced by the State Depart-
ment of Public Works.

Detailed figures for the various in-
stitutions were given as follows:

Agnews State Hospital, \$506,500;

Napa State Hospital, \$110,000; Nor-
walk State Hospital, \$169,000; Men-
docino State Hospital, \$315,000; Patton
State Hospital \$185,000; Stockton State
Hospital, \$142,000; Preston School of
Industry, \$110,000, with an additional
\$120,000 to be asked from the legisla-
ture; Whittier State School, \$103,000;

Sonoma State Home, \$150,000, with an
additional \$178,500 to be requested
from the legislature; Pacific Colony,
\$210,000; Ventura School For Girls,
\$35,000; Spadra Narcotic Hospital, \$45-
000; Industrial Home for Adult Blind,
Oakland, \$20,000.

Bids Rejected.
LAUNDRY EQUIP. Cost, \$—
PALO ALTO, Santa Clara Co., Calif.

Stanford University Campus.

Furnish and install laundry equipment
for hospital.

Owner—City of Palo Alto, E. L. Beach
city clerk.

Architects and Engineers—Reed and
Corlett, 1801 Oakland Bank Bldg.,
Oakland.

New bids will probably be called for
shortly. On previous bid opening low-
est bid was submitted by the Ameri-
can Laundry Machinery Co., 921 How-
ard St., San Francisco.

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Bids Opened.
HOSPITAL. Cost, \$70,500
SPADILLA, Los Angeles Co., Cal. State
 Hospital Grounds.

Two 1-story reinforced concrete ward
 buildings with the partitions, wood
 roof construction and the roofs;
 approximate floor area, 4200 sq. ft.
 for receiving ward and 2000 sq. ft.
 for Wards I and 2; auditorium of
 frame construction, 2700 sq. ft.
 floor area, stucco exterior, tile
 roof.

Owner—State of California.

Architect—Geo. B. McDougall, State
 Architect, Public Works Building,
 Sacramento.

General Work

John Strona, San Pedro.....\$38,990
 L. A. Geisler, Los Angeles.....39,156
 Blue Hibben Supply & Const.
 Co., Los Angeles.....39,197
 J. S. Cobler.....39,860
 Campbell Const. Co., L. A.....40,173
 A. V. Perkinson, Inc., L. A.....40,840
 C. Haviland, Los Angeles.....41,465
 Robert McKee, Los Angeles.....41,900
 Van Rensler & Isham, L. A.....41,970
 J. & B. Const. Co., Los Angeles.....42,346
 J. S. Metzger & Son, L. A.....42,579
 J. W. Jean, Pasadena.....43,287
 Modern Construction Co.....43,900
 Wigg Construction Co.....45,000
 Adolph Schmid.....45,800
 Miller & Schultz.....48,900

Plumbing, Heating and Ventilating
Thames Haverly, 316 E 8th St.,
Los Angeles.....\$ 9,840

W. H. Smith, Long Beach.....9,995
 F. C. Schilling, Los Angeles.....10,229
 Conney & Winterbottom, L. A.....10,234
 Lohman Bros., Los Angeles.....10,271
 S. B. Jones, Los Angeles.....10,542
 Hickman Brothers.....10,680
Poss. Heating & Sheet Metal
Works.....10,737
 American Eng. Const. Co.....10,794
 J. B. Welsh.....10,830
 Jones Heating Co.....10,870
 W. P. McArthur.....10,960
 Johnson & Reed.....11,798
 W. H. Robinson.....11,997

Electrical Work
R. R. Jones Electric Co., 1124
Fair Oaks, Los Angeles.....\$1,300
 H. H. Walker.....1,350
 W. H. Smith, Long Beach.....1,350
 American Electric Co.....1,365
 Moore Electric Co.....1,596
 A-Bright Electric Co.....1,785

Mechanical Work Complete
W. H. Smith, Long Beach.....\$11,200
 Bids held under advisement.

Contract Awarded.
CLINIC Cost, \$100,000
SANTA BARBARA, Santa Barbara
Co., Cal. Third Avenue.

Two-story and basement Class A re-
 inforced concrete clinic with tile
 roof (43x15 ft.) (70 rooms).

Owner—Dr. W. D. Samsun.
 Architect—Carleton M. Winslow, Ar-
 chitects Bldg., Los Angeles.
 Contractor—Alexander MacKeller, 112
 E. Sola St., Santa Barbara.

SANTA BARBARA, Cal.—Architects
Soule, Murphy & Hastings, 116 E.
Sola St., are outlining a ten-year plan
of development for the Santa Barbara
County Hospital. They have plans
under way at this time for a new
custodial wing for the hospital

Preparing Working Drawings.
HOSPITAL Cost, \$250,000
COLUMBIA, Colusa Co., Calif. County
Hospital Grounds.

One- and two-story reinforced con-
 crete hospital (1-story wing and
 2-story administration building).
 Owner—County of Colusa.

Architect—Otto Reichmann, 110 Sut-
 ter St., San Francisco.

Only the first unit, having a 24-bed
 capacity, will be undertaken at this
 time. The structure, when completed,
 will have a capacity of 100 beds. Bids
 will be called for after Jan. 1, 1931.

Sub-bids Being Taken.
HOME Cost, price, \$34,100
SAN LUIS OBISPO, San Luis Obispo
Co., Cal. Johnson Avenue.

Brick Detention Home (frontage 132
 ft. with central section forward,
 28 ft. with rear wing 36x35 ft.;
 tile on sloping roofs; asbestos
 shingles on flat roofs; and one-
 story frame health cottage (ten
 rooms, separate dining room).

Owner—County of San Luis Obispo.
 Architect—Wm. Mossey, Mondanock
 Bldg., San Francisco.

Contractor—H. H. Larsen, 64 South
 Park, San Francisco.

Additional Sub-Contracts Awarded.
HOME Cost, Approx. \$90,000
OAKLAND, Alameda Co., Cal. E.
Twenty-ninth Street.

Two-story Class C concrete Home for
 Aged.

Owner—Salem Lutheran Benevolent
 Assn., Oakland.

Architect—Henry H. Guterson, 526
 Powell St., San Francisco.

Contractor—F. J. Westlund, 354 Ho-
 bart St., Oakland.

Concrete—R. Montgomery, 2626 Ivy
Drive, Oakland.

Plumbing—Henry Lass, 5300 Cole St.,
Oakland.

Electric—Geo. W. Iffe, 4415 Grove St.,
Berkeley.

Plaster—Arthur Ashton, Berkeley.
 As previously reported, grading

awarded to J. Catucci, 1212 18th Ave.,
 Oakland; steel to McGrath Steel Co.,
 354 Hobart St., Oakland.

Heating bids will be taken shortly.

OROVILLE, Butte Co., Cal.—Until
November 5, 2 P. M., bids will be
received by C. F. Belding, county clerk,
to construct additions to Surgery at
County Infirmary. Certified check
10% required with bid. Plans on file
in office of clerk.

Plans Being Completed. Cost, \$160,000
ADDITIONS
SAN FRANCISCO, Potrero Ave. bet.
50th and 23rd Sts. (San Francisco
Hospital).

Class A additions on roof of four ward
 buildings (brick walls, tile roof).
 Owner—City and County of San Fran-
 cisco.

Architect—Alfred I. Coffey and Martin
 Rist, associated, Phelan Bldg.
 Plans will be completed in one week.

Sub-Contracts Awarded.
SANITARIUM Cost, price, \$14,077
MURPHY, Calaveras Co., Cal.

One-story stucco and stucco sanitari-
 um.
 Owner—Bret Harte Sanitarium, Mur-
 phy.

Architect—Jos. Losekann, 1218 West
 Harding St., Stockton.

Contractor—George Hook, 1724 West
 Cornell Street, Stockton, and care
 Bret Harte Sanitarium, Murphy.

Lumber—Linden Lumber Co., Linden.
Mill Work—Electric Planing Mill, Haz-
elton and Monroe Sts., Stockton.

Glass and Glazing—W. P. Fuses Co.,
218 S. Aurora St., Stockton.

Roofing—San Joaquin Lbr. Co., Seasts
Ave. and Madison, Stockton.

Sub-bids are wanted on steel work,
 plumbing, sheet metal, plastering,
 painting, electric wiring, insulat-
 ing, shades and tile work. Plans are at the
 office of W. H. Trethaway, S. Pur-
 chasing Agent, Courthouse, Stockton.
 Electric heating system.

Excavating and Terra Cotta Contract
Awarded. Cost, \$35,000
REMODELING
OAKLAND, Alameda Co., Cal. High-
land Hospital Grounds.

Remodel entrance to hospital.
 Owner—County of Alameda.
 Architect—H. H. Meyers, Kohl Bldg.,
 San Francisco.

Contractor—J. J. Grodum & Co., 1025
 San Antonio Ave., Alameda.
Excavating—J. Catucci, 1212 18th Ave.
Oakland.

Terra Cotta—N. Clark & Son, Pacific
and 4th Sts., Alameda.

Alterations are to provide a new en-
 trance for receiving and discharging
 patients. Under the new arrangement
 the first floor of the "A" building will
 be used as a receiving ward and a
 corridor will connect the present re-
 ceiving ward with the new one.

HOTELS

Plans Being Prepared.
ALTERATIONS Cost, \$—
SACRAMENTO, Sacramento Co., Cal.
Fifth and J Sts. (Travelers Hotel)

Alterations to present six-story hotel.
 Owner—Frank J. Casey, 1230 41st St.,
 Sacramento.

Architect—Harry Devine, California
 State Life Bldg., Sacramento

Work will be handled by architect
 on percentage basis.

Plans Being Prepared.
ADDITION Cost, \$—
OAKLAND, Alameda Co., Cal. Mad-
ison St. and Lakeside Drive.

Fourteen-story class A addition to ho-
 tel (155 ft. frontage).
 Owner—Lake Merritt Hotel (A. Wal-
 lace Smith Bldg. Smith and Wal-
 lace H. Miller in charge), Hunter-
 Dulin Bldg., San Francisco.

Architect—W. B. Schirmer, 700 21st
 St., Oakland.

Contract Awarded.
HOTEL Cost, price, \$23,850
SALINAS, Monterey Co., Cal.

Three-story reinforced concrete hotel
 and stores (25 rooms, 2 stores; 50
 by 50 feet).

Owner—R. B. Losada and A. Alcan-
 tara, 29 Susal St., Salinas.

Architect—Guy Kewer & M. S. Camp-
 bell, associated, McDougall Bldg.,
 Salinas.

Contractor—J. S. Boyd, Salinas.

Following is a complete list of bids:

J. S. Boyd, Salinas.....\$23,850
 A. B. McElheran, Salinas.....24,033
 W. L. Richmond, Salinas.....25,000
 F. C. Carlson, Salinas.....25,862
 H. D. Conn, Salinas.....26,610

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Segregated Bids Being Taken.
ADDITION Cost, \$200,000
STOCKTON, San Joaquin Co., Calif.
 Sutter and Market Sts.
 Five-story class A addition to hotel.
 Owner—W. C. Clark, Sutter and Market Sts., Stockton.
 Architect—Glenn Allen, 41 S Sutter St., Stockton.

POWER PLANTS

PASADENA, Cal.—Consolidated Steel Corp., 1200 N. Main St., Los Angeles, awarded contract by city directors at \$22,510 to furnish and install electric hoist for the Municipal Light Plant. The low bid of the Judson-Pacific Co. of San Francisco did not meet the specifications.

PASADENA, Cal.—Until 11 A. M. Nov. 22, bids will be received by the city directors for furnishing and installing steam generating equipment and appurtenances for the municipal light plant, at Glenarm St. and Raymond Ave. Proposals are requested as follows:

(I) Two 15,000 sq. ft. (approx.) boilers, including boiler proper, steel supporting members, super-heater water columns, valves and appurtenances as specified, delivered and erected;

(II) Two sets of tubes, headers, connections, recirculators, inlet boxes and appurtenances for side, rear and front furnace walls for use in conjunction with the boilers as set forth in Item I, as specified, delivered and erected;

(III) Two boilers complete with water walls as set forth in Items I and II as specified, delivered and erected;

(IV) Additional price (for 2 units) of 3½-in. O. D. tubes on 7½-in. centers are used in front furnace wall over burners. This alternative to be added to Items I, II or III as specified, delivered and erected.

Certified check, 10%. Plans and specifications may be seen at the office of the city clerk, Bessie Chamberlain.

CHICO, Butte Co., Cal.—Pacific Gas and Electric Co., 215 Market St., San Francisco, has approved order to reconstruct and re-route Chico-Inskip 60,000-volt transmission line, involving an expenditure of \$55,880.

HERNDON, Fresno Co., Cal.—Construction will be started at once on 50,000 kilowatt steam-operated generating plant at Herndon on the San Joaquin river 10 miles north of Fresno. It is announced by A. Emory Wishon, president of the San Joaquin Light and Power Corp., Power Bldg., Fresno. The plant will cost \$4,610,000 and will burn natural gas from the Kettleman Hills, which will be piped through a 12-in. main from Fresno. Construction is to be completed June 1, 1932 and will be carried on under the supervision of Harold K. Fox, chief construction engineer for the company, Power Bldg., Fresno.

LOS ANGELES, Cal.—Bids will be asked at once by the county supervisors to furnish and deliver 200 tons of used boiler tubing. Further information obtainable from county clerk.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

Plans Being Figured—Bids Close Nov. 5, 5 P. M.

ADDITIONS Cost, \$10,000
HILLSBOUGOUGH, San Mateo Co., Cal.
 Two-story frame and stucco additions to firehouse.

Owner—Town of Hillsborough.
 Architect—John White, 163 Sutter St., San Francisco.

FAIRFIELD, Solano Co., Cal.—City council contemplates bond issue to secure funds to finance erection of combination city hall and firehouse.

Contract Awarded.
ANNEX Cost, \$—
VENTURA, Ventura Co., Cal.
 Reinforced concrete steel frame and brick courthouse annex and jail.
 Owner—County of Ventura.
 Architect—Harold E. Burket, 455 East Main St., Ventura.

General Work
 Union Engineering Co., 5905 Pacific Blvd., Huntington Park, \$198,978.
Electrical Work
 American Electric Constr. Co., 722 Towne Ave., Los Angeles, \$7280.

Painting
 H. Wasserman, 424 N. Crescent Heights, Los Angeles, \$5352.
Plumbing
 Wigton & Noyes, Ventura, \$26,558.

Heating and Ventilating
 Pacific Pipe & Supply Co., 1002 Santa Fe Ave., Los Angeles, \$12,655.

Elevators
 Consolidated Steel Co., Los Angeles, \$571.

Finish Hardware
 Bennett-Montgomery Hardware Co., Los Angeles, \$2995.
 Refrigeration, linoleum, water softener and prison cell work bids held under advisement.

Plans Being Completed.
LIBRARY Cost, \$40,000
FAIRFIELD, Solano Co., Cal.
 Two-story concrete public library.
 Owner—County of Solano.
 Architect—Coffman, Sahlgren & Stafford, Forum Bldg., Sacramento.
 Bids will be taken within one week

LAKEPORT, Lake Co., Cal.—As previously reported, Charles Nofrey, Lakeport, at \$1235.50 awarded contract by county supervisors to furnish and install steam heating system in old portion of county courthouse. Norman R. Coulter, architect, 46 Kearny St., San Francisco. Following is a complete list of bids received:

Chas. Nofrey, Lakeport.....	\$1235
Ukiah Plumbing & Heating Co., Ukiah.....	1472
H. W. Salls, Ukiah.....	1689
D. O'Meara, San Francisco.....	1689
Geo. C. Bell, Oakland.....	1772

Contract Awarded.
HEATING PLANT Cost, \$4575
STOCKTON, San Joaquin Co., Cal.
 Victory Park.
 Low pressure steam heating and ventilating plant.
 Owner—San Joaquin Pioneer and Historical Society.
 Architect—W. J. Wright, Mail Bldg., Stockton.
 Contractor—Louis Brandt, 418 E. Lafayette St., Stockton.

LINDSAY, Tulare Co., Cal.—City council contemplates bond issue to secure funds to finance construction of a civic center project.

Plans Complete.
NEW CELLS \$40,000 available
SANTA BARBARA, Santa Barbara Co., Cal. Santa Barbara County Jail.

Installation of 28 new cells.
 Owner—County of Santa Barbara.
 Architect—Wm. Mosser, Jr., Nevada Bank Bldg., San Francisco.
 Bids will be advertised about Nov. 3. Each cell will accommodate four prisoners.

OAKLAND, Cal.—Spencer Elevator Co., 166 7th St., San Francisco, at \$575 awarded contract by city council to furnish steel cable for repairs to elevator No. 3 in City Hall.

RESIDENCES

Sub-Contracts Awarded.
RESIDENCE Cont. Price, \$50,670
ATHERTON, San Mateo Co., Cal.
 Two-story and basement brick veneer residence.

Owner—Clarence Walter, Russ Bldg., San Francisco.

Architect—H. H. Gutterson, 526 Powell St., San Francisco.

Contractor—G. P. W. Jensen, 320 Market St., San Francisco.

Concrete—Louie Sartoio, 240 Greenwich St., San Francisco.

Mill Work—Sunset Lumber Co., 400 High St., Oakland.

Heating—Vincent McMullen.

Sub-Bids Wanted.
RESIDENCE Cost, \$10,500
SAN FRANCISCO. SW Manor Drive and Kenwood.

One-story and basement frame and stucco residence (6 rooms); tile and composition roof, gas heating system.

Owner and Builder—G. W. Morris, 95 Pinehurst St., San Francisco.
 Plans by D. E. Jaekle, Call Bldg.

Working Drawings Being Prepared.
RESIDENCES Cost, Approx. \$15,000
SAN FRANCISCO. Sherwood Forest
 Three two-story and basement frame and stucco residences (7 to 9 rooms.)

Owner—Lang Realty Co., 39 Sutter St., San Francisco.
 Plans by Frank Nelson, 2 Edgehill Way, San Francisco.

Plans Being Figured.
RESIDENCE Cost, \$25,000
BAKERSFIELD, Kern Co., Cal. Stockdale Country Club.
 Two-story residence.
 Owner—Lloyd Stroud.
 Architect—Clarence Cullimore, 10 Oleander Ave., Bakersfield.

Plans Being Completed.
RESIDENCE Cost, \$12,500
OAKLAND, Alameda Co., Cal. Lakeshore Highlands.

Two-story and basement frame and stucco residence (11 rooms and 3 baths).

Owner—A. R. Lapham, 947 Hillcroft Circle, Oakland.

Plans by Irwin Johnson, 2215 Seventh Ave., Oakland.
 Bids will be taken in one week.

Construction Postponed Indefinitely.
RESIDENCE Cost, \$8000
SERAPOTOL, Sonoma Co., Cal.
 Two-story frame and stucco residence
 Owner—T. M. Jones.
 Architect—Wm. Herbert, Rosenberg Bldg., Santa Rosa.

Plans Being Prepared.
RESIDENCES Cost, \$7500 each
MILBRAE HIGHLANDS, San Mateo
 Two one-story and basement frame and stucco residences (5 rooms ea) (tile and composition roof).
 Owner—Castle Bldg. Co., 830 Market St., San Francisco.
 Plans by D. E. Jaekle, Call Bldg., San Francisco.

Sub-Bids Being Taken.
RESIDENCE Cost, \$10,500
SAN FRANCISCO. SW Manor Drive and Kenwood St.
 One-story and basement frame and stucco residence (6 rooms); tile and composition roof, gas heating system).
 Owner and Builder—G. W. Morris, 95 Pinehurst St., San Francisco.
 Plans by D. E. Jaekle, Call Bldg., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$18,100
SAN JOSE, Santa Clara Co., Cal.
Two-story and basement frame and stucco residence.
Owner—T. W. MacQuarrie, 309 S. Eighth St., San Jose.
Architect—Hinder & Curtis, 35 W. San Carlos St., San Jose.
Contractor—Chas. Thomas, 127 Clayton St., San Jose.

Sub-Contracts Awarded.
RESIDENCE Cost, \$22,000
SAN FRANCISCO. Jackson St. near Steiner Street.
Two-story and basement frame and stucco residence.
Owner—F. D. Zelinsky, 165 Grove St.
Architect—Hyman and Appleton, 63 Post Street.
Contractor—Jacks and Irvine, 74 New Montgomery Street.
Marble—American Marble Co., 25 Columbia Square.
Mill Work (except sash and doors)—J. A. Hart Mill & Lumber Co., Jerrold and Napoleon Sts.
As previously reported, plumbing awarded to James O. Dugan, 104 Excelsior St.; electrical work to Commercial Electric Co., 1925 Howard St.; sheet metal and patent lifts to Lowell Davison, 375 Monterey Blvd.

Low Bidder.
RESIDENCE Cost, \$15,000
PIEDMONT, Alameda Co., Cal.
Crocker Highlands.
Two-story and basement frame and stucco residence.
Owner—Dr. Hobart Rogers, 400 29th St., Oakland.
Architect—W. E. Schirmer, 700 21st St., Oakland.
Low Bidder—J. H. Wendt, 556 Arlington Ave., Berkeley.

Contract Awarded.
BUNGALOWS Cost, \$25,000
SAN MATEO, San Mateo Co., Cal.
Western Addition.
Frame and stucco bungalow court (6 bungalows).
Owner—Chas. Todaro, 376 N. Delaware St., San Mateo.
Plans by Mr. Powers.
Contractor—Ashley Powers, 850 9th Ave., San Mateo.

Contract Awarded.
RESIDENCE Cost, \$25,000
DEL MONTE, Monterey Co., Cal.
Two-story frame and stucco residence (10 rooms).
Owner—Mrs. Van Ness.
Architect—W. O. Raiguel, Hotel Del Monte, Monterey.
Contractor—Harold Geyer, Monterey.
Heating, Plumbing and Sheet Metal—Philips Heating & Plumbing Co., Monterey.
Electric Wiring—Carroll and Searle, Monterey.
Ornamental Iron—Robert Petersen, Monterey.
Roofing and Tile—C. L. Frost, Monterey.
Mill Work—T. A. Work, Monterey.
Painting—Drudwig & Meyering, Pacific Grove.
Glass and Glazing—Thomas French, Monterey.

Plans Being Figured.
PARISH HOUSE Cost, \$10,000
OAKLAND, Alameda Co., Cal.
Emerson and Excelsior Aves.
Two-story frame and stucco parish house.
Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.
Architect—W. E. Schirmer, 700 21st St., Oakland.
About one week will be allowed for figuring plans.

Plans Being Prepared.
RESIDENCE Cost, \$30,000
SAN FRANCISCO. Marina Blvd.
Two-story and basement frame and stucco residence (8 rooms and 3 baths) (steam heating plant, tile roof).
Owner—Withheld.
Plans by Lawrence Ebbets, 320 Fulton St., San Francisco.
More definite information will be given in about two weeks.

Contract Awarded.
RESIDENCE Cost, \$11,000
SAN FRANCISCO. SE Monterey Blvd. and San Alejo.
Two-story and basement frame and stucco residence.
Owner—A. Olsen, 7 College Terrace, San Francisco.
Architect—Charles F. Strothoff, 2274 15th St., San Francisco.
Contractor—E. L. Stoneson, 279 Yerba Buena Ave., San Francisco.

Construction Indefinitely Postponed.
SORORITY HOUSE Cost, \$30,000
BERKELEY, Alameda Co., Cal.
Sonoma and Le Conte Sts.
Three-story frame and stucco sorority house.
Owner—Alpha Delta Theta, 2545 Hille-gass St., Berkeley.
Architect—John Hudson Thomas, Mercantile Bank Bldg., Berkeley.
Will contain 12 bedrooms, library, concert room, chapel, etc.

Plans Being Completed.
RESIDENCE Cost, Approx. \$25,000
SAN FRANCISCO. Juniper Serra Blvd. and Mercedes St.
Two-story and basement frame and stucco residence (10 rooms and 3 baths) (tile roof).
Owner—Howard E. Mohr, 140 San Leandro Ave., San Francisco.
Architect—Martin Sheldon, Monadnock Bldg., San Francisco.
Bids will be taken in one week.

Segregated Bids Being Taken.
RESIDENCE Cost, \$12,000
OAKLAND, Alameda Co., Cal.
Oak Knoll.
Two-story and basement frame and stucco residence (9 rooms and 3 baths).
Owner—J. B. Graves.
Plans by H. K. Jensen, 354 Hobart St., Oakland.

Working Drawings Being Prepared.
RESIDENCE Cost, \$7000
SAN FRANCISCO. Rock Ridge Terrace.
One-story and basement frame and stucco residence (6 rooms).
Owner—Lang Realty Co., 39 Sutter St., San Francisco.
Plans by Frank Nelson, 2 Edgemoor Way, San Francisco.

Working Drawings Being Prepared.
RESIDENCE Cost, \$7000
SAN FRANCISCO. Rock Ridge Terrace.
Two-story and basement frame and stucco residence (7 rooms).
Owner—Lang Realty Co., 39 Sutter St., San Francisco.
Plans by Frank Nelson, 2 Edgemoor Way, San Francisco.

Plans Being Completed.
RESIDENCE Cost, \$—
WATSONVILLE, Santa Cruz Co., Cal.
Two-story and basement frame and stone veneer residence (12 rooms and 4 baths).
Owner—H. S. Fletcher, 322 Union St., Watsonville.
Plans by Frederick Bigland, 8th and Mountain View Ave., Carmel.

Contract Awarded.
RESIDENCE Cost, \$15,000
PIEDMONT, Alameda Co., Cal.
Lot 17, Wildwood Gardens.
Two-story and basement frame and stucco residence (8 rooms, 3 baths) (owner—M. E. Dougray, 370 Grand Ave., Oakland).
Architect—Blaine & Olsen, 1755 Broadway, Oakland.
Contractor—Jensen & Pedersen, 3443 Adeline St., Oakland.

Plans Being Prepared.
RESIDENCES Total Expend. \$275,000
SEATTLE, Wash. 36th Ave North in Jenny-Blaire District.
Thirty-six one and one-half and two-story brick, concrete and frame residences (French design).
Owner—French Village Corporation.
Architect—Paul Thiry, Skinner Bldg., Seattle, Wash.

Plans Completed.
RESIDENCE Cost, \$10,000
SAN MATEO, San Mateo Co., Cal.
Lomita Park.
Two-story frame and stucco residence.
Owner—A. C. Brandt, Lomita Park.
Architect—J. Lloyd Conrich, 630 Lake St., San Francisco.

SCHOOLS

Preparing Plans.
DORMITORY Cost, \$300,000
LOS ANGELES, Cal.
Hillard Ave. & Manning St.
Three-story and basement Class A reinforced concrete dormitory (160x126 ft.) (67 rooms).
Owner—University of California.
Architect—Douglas H. McLellan, Architects Bldg., Los Angeles.
Supervising Architect—Geo. W. Kelham, 315 ontgomery St., S. F.
Will be known as the Mira Hershhey Hall.

Prospective Bidders.
SCHOOL Cost, \$35,000
UPPER LAKE, Sonoma Co., Cal.
One-story reinforced concrete high school (5 classrooms and auditorium).
Owner—Upper Lake Union High School District.
Architect—Wm Herbert, Rosenberg Bldg., Santa Rosa.
Will have tile roof, steam heating system.
Bids will be opened at Upper Lake.
Following is a list of contractors who are figuring the plans:
Louis Halvorsen, 125 Dutton Ave., Santa Rosa.

A. O. Lighford, Upper Lake.
Petaluma Constr. Co., Petaluma.
D. Downie, Sebastopol.
Chas. Gibson, Ukiah.
C. F. Unger, 4522 T St., Sacramento.
J. M. Evans, Chico.
Gaubert Bros., 354 Hobart St., Oakland.
Bids are to be opened Nov. 1, at 2 P. M.

BERKELEY, Alameda Co., Cal.—C. F. Weber Co., 650 2nd St., at \$2,359 submitted lowest bid to secretary, Board of Education, 2325 Milvia St., to furnish and install gymnasium apparatus in Berkeley High School. The only other bid was submitted by E. P. Finigan, San Francisco, at \$2471. Bids held under advisement.

SAN FRANCISCO—Bids will be asked within the next two weeks by the Board of Public Works to construct iron and glass entrance on the west side of the Grant School in the north side of Pacific Avenue, between Broderick and Baker Sts.

Completing Plans.
LABORATORY Cost, \$120,000
 LA JOLLA, San Diego Co., Cal.
 Two-story reinforced concrete laboratory (46x100 feet).
 Owner—Scripps Institute of Oceanography, La Jolla.
 Architect—Louis J. Gill, Sefton Bldg., San Diego.
 Bids will be taken in about sixty days.

Contract Awarded.
ADDITION Cont. price, \$3845
 CORNING, Tehama Co., Cal.
 One-room addition to grammar school.
 Owner—Corning Grammar School District, Mrs. L. J. Lawrence, Pres.
 Architect—Starks and Flanders, 714 Forum Bldg., Sacramento.
 Contractor—F. H. Nielsen, Orland.

Following is a complete list of bids:
 F. H. Nielsen, Orland.....\$3,845
 R. B. McKenzie, Gerber.....3,934
 Harry Porter, Gerber.....3,974
 A. J. Symonds, Corning.....3,997
 J. M. Evans & Son.....4,188
 J. P. Brennan, Redding.....4,284
 Azevedo & Sarmiento, Sacto.....4,450

Contract Awarded.
SHOP Cont. price, \$9653
 CORNING, Tehama Co., Cal.
 One-story hollow tile and stucco school shop building (68x100 ft.).
 Owner—Corning Union High School District, L. Winkenhof, clerk.
 Architect—Starks and Flanders, 714 Forum Bldg., Sacramento.
 Contractor—Harry Porter, Gerber.

Following is a complete list of bids:
 Harry Porter, Gerber.....\$10,478
 Azevedo & Sarmiento, Sacto.....10,621
 C. P. Unger, Sacramento.....11,191
 R. B. McKenzie, Red Bluff.....11,495
 J. M. Evans & Son, Chico.....11,626
 J. P. Brennan, Redding.....11,935
 F. H. Nielsen, Orland.....14,290

Plans Approved.
SCHOOL BLDGS Cost, \$167,000
 MESA, Arizona.
 School buildings.
 Owner—Arizona Child Colony.
 Architect—Lescher & Mahoney, Phoenix, Arizona.

Plans To Be Prepared.
SCHOOL Cost, \$85,000
 SANTA ROSA, Sonoma Co., Cal. 9th and Washington Sts. (site 450 by 150 feet).
 Two-story concrete parochial school (8 classrooms).
 Owner—St. Rose's Catholic Church, Rev. Henry Raters, pastor.
 Architect—Not Selected.

Contract Awarded.
CLOCK SYSTEM, ETC. Cost, \$—
 MARTINEZ, Contra Costa Co., Cal.
 Furnish and install window shades, program clock system, intercommunicating telephone system, opera chairs for auditorium, balcony and oral English room for high school.

Owner—Alhambra Union High School District, P. D. Butcher, clerk.
 Architect—W. H. Weeks, 111 Sutter St., San Francisco.

Opera Chairs
 Heywood Wakefield Co., 737 Howard St., San Francisco.....\$2,864
Window Shades
 Martinez Furniture Co., Martinez.....\$1,093
Telephones, Clock and Fire Alarms
 F. A. Thomas Co., 47 2nd St., San Francisco.....\$1,872.51

Plans Being Figured—Bids Close November 12.
ADDITION Cost, \$100,000
 LOS ANGELES, Cal. Phineas Banning High School.
 Reinforced concrete and brick school addition (63x98 ft.) (15 classrooms)
 Owner—Los Angeles Board of Education.

Architect—J. C. Austin and F. M. Ashley, Chamber of Commerce Bldg., Los Angeles.

Contract Awarded.
KINDERGARTEN Cont. Price, \$44,621
 SANTA BARBARA, Santa Barbara Co., Cal. Robbins St. (Harding School).

One-story concrete kindergarten and primary school.
 Owner—Santa Barbara Board of Education.

Architect—Soule, Murphy & Hastings, 116 E. Solá St., Santa Barbara.

Contractor—W. L. Snook, 21 E. De La Guerra St., Santa Barbara.
Plumbing and Heating—Ott Hard-Co., Santa Barbara, at \$4960.

Plans Being Figured—Bids Close Nov. 6, 8 P. M.

ADDITION Cost, Approx. \$10,000
 MOSS LANDING, Monterey Co., Cal.
 One-story frame addition to present school (2 classrooms).

Owner—Moss Landing School District
 Architect—W. H. Weeks, Hunter-Dulin Bldg., San Francisco; 1736 Franklin St., Oakland, and Bank of Italy Bldg., San Jose.

Plans Being Prepared.
SCHOOL Cost, \$20,000
 SAN JOSE, Santa Clara Co., Cal.

Eight miles south of San Jose.
 One-story frame and stucco school (3 classrooms).

Owner—Rucker School District.
 Architect—W. H. Weeks, 111 Sutter St., San Francisco; 1736 Franklin St., Oakland, and Bank of Italy Bldg., San Jose.

Preparing Working Drawings.
JUNIOR COLLEGE Cost, \$—
 SANTA ROSA, Sonoma Co., Cal.
 Class A Junior College group.
 Owner—Santa Rosa Junior College District.

Architect—W. H. Weeks, 111 Sutter St., San Francisco.

The project will be constructed on the unit system, the first unit to cost \$38,000 of which funds are now available. Will be of the English or Gothic type of architecture. Complete project will include the construction of a swimming pool on the 20-acre site available for the college.

Preparing Working Drawings.
MEMORIAL BLDG. Cost, \$250,000
 BERKELEY, Alameda Co., Cal.
 Campus of University of California.

Two-story Class A concrete Eschman Memorial Bldg. (Student publishing building).

Owner—Regents of the University of California, Berkeley.

Architect—G. W. Kelham, 315 Montgomery St., San Francisco.

Bids will be taken about Nov. 25.

Sub-Bids Being Taken.
SCHOOL Cost, \$70,000
 HOLISTER, San Benito Co., Cal.

Two-story brick and concrete school (12 rooms).

Owner—Sacred Heart School (Rev. Daniel Keenan, pastor, Hollister).
 Architect—R. G. Montgomery, Chamber of Commerce Bldg., Los Angeles.

Contractor—James L. McLaughlin, 251 Kearny St., San Francisco.

Segregated Figures Being Taken.
CONVENT Cost Approx., \$70,000
 SAN FRANCISCO. Ashbury Street near Waller.

Four-story concrete convent and 2-story addition to present school.
 Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.

Architect—H. A. Minton, 525 Market St., San Francisco.
 Rev. John Butler is the pastor.

SAUSALITO, Marin Co., Cal.—
 Until November 3, 8 P. M., bids will be received by S. G. Ratto, Clerk, Sausalito School District, to construct retaining wall at Central School Grounds. Certified check or bond 10% payable to Board of Trustees required with bid. Plans obtainable from clerk at 911 Water St., Sausalito.

Contract Awarded.
GYMNASIUM Cost, \$5000
 SAN JOSE, Santa Clara Co., Cal.
 No. 630 N-Fifth Street.
 Frame gymnasium.
 Owner—Japanese Buddhist Society, 634 N-Fifth St., San Jose.
 Architect—None.
 Contractor—Robert Bros., 305 N-Seventh St., San Jose.

Contract Awarded.
SCHOOL Cost, \$125,000
 ANTIOCH, Contra Costa Co., Cal. 15-acre site), D Street.
 Two-story brick high school.
 Owner—Antioch Live Oak High School District.

Architect—Davis-Pearce Co., Grant and Weber Sts., Stockton.
 Contractor—Maxwell Const. Co., Forum Bldg., Sacramento.
 Contract awarded on alternates 5 and 6.

Plans Being Figured—Bids Close Nov. 11, 8 P. M.

ADDITION Cost, \$—
 LAVER, Yolo Co., Calif.
 Dockside room addition to high school gymnasium.
 Owner—Davis Union High School District, E. S. Macgregor, clerk, Davis.

Architect—Starks and Flanders, 714 Forum Bldg., Sacramento.
 Certified check 10% payable to clerk required with bid. Plans obtainable from the architects on deposit of \$10, returnable.

Plans Being Completed.
SCHOOL Cost approx., \$400,000
 OAKLAND, Alameda Co., Cal. 45th Ave. and Foothill Blvd. (Fremont High School Site).
 Steel frame and concrete high school with tile roof.

Owner—City of Oakland School Dist.
 Architect—Charles W. McCall, 1404 Franklin St., Oakland.

Plans are to be completed Nov. 22nd, and bids will be called for shortly after that date.

Plans Being Figured—Bids Close Nov. 12, 7:30 P. M.

COLLEGE Cost (1st unit) \$40,000
 SANTA ROSA, Sonoma Co., Cal.
 One-story brick academic building (9 classrooms, assembly hall and office).

Owner—Santa Rosa Junior College District.

Architect—W. H. Weeks, 111 Sutter St., San Francisco.

Landscape Architect—Howard Gilkey, Howden Bldg., Oakland.

The second unit will also be an academic building and will go ahead in about two months.

PHOENIX, Ariz.—C. F. Weber & Company, 650 Second St., San Francisco, has contract for furnishing stage equipment and furniture for the new Creighton School.

BANKS, STORES & OFFICES

Preparing Working Drawings.
STORE Cost, \$100,000
 OAKLAND, Alameda Co., Cal. No. 1717 Broadway.

Two-story and basement reinforced concrete store (75x110 ft.).

Owner—Mrs. Phillip E. Bowles, Russ Bldg., San Francisco.

Architect—Douglas Stone, 1706 Broadway, Oakland.

Bids will be taken in about two weeks.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$3500
SAN FRANCISCO. No. 550 California Street.
 Remodel exterior front for bank (work involves masonry work, granite, terra cotta and brick).
 Owner—San Francisco Bank, 526 California St., San Francisco.
 Architect—Ward & Blohme, 24 California St., San Francisco.
 Contractor—Chas. Heyer, Mills Bldg., San Francisco.
Terra Cotta—N. Clark & Son, 116 Natoma St., San Francisco.
Granite—McGillvray Raymond Granite Co., 3 Potrero Ave., San Francisco.
Masonry—Mealey & Collins, 666 Mission St., San Francisco.

Contract Awarded.
OFFICES Cost, \$1,250,000
LOS ANGELES, Cal. SE Wilshire Blvd. and Western Ave.
 Twelve-story Class A reinforced concrete, steel and brick theatre and offices (199x300x182 feet).
 Owner—Serrano Corp.
 Architect—Morgan, Walls & Clements (offices), Van Nuys Bldg., Los Angeles; G. Albert Lansburgh, 140 Montgomery St., San Francisco. (theatre)
 Contractor—William Simpson Constr. Co., Architects Bldg., Los Angeles

Plans Being Figured — Bids Close
BANK Cost, \$15,000
SAN FRANCISCO. Divisadero and Hayes Streets.
 One-story and basement reinforced concrete bank.
 Owner—Bank of Italy.
 Architect — H. A. Minton, Bank of Italy Bldg., Eddy and Powell Sts., San Francisco.

Sub-Bids Being Taken.
BUILDING Cost, \$20,693
BURLINGAME, San Mateo Co., Cal. Block 16.
 One-story concrete building.
 Owner — Pacific Greyhound Lines, 9 Main St., San Francisco
 Plans by Owner.
 Contractor—Chas. J. Dawe, 981 Peralta Ave Berkeley.

Plans Being Figured.
STORE Cost, \$250,000
LOS ANGELES, Cal. NE Wilshire Blvd. and Westmoreland.
 Two-story and basement concrete and brick Class B store (175x175 ft.)
 Owner—Westmoreland Bldg. Co.
 Architect—Walker & Eisen, Western Pacific Bldg., Los Angeles

Working Drawings Being Prepared.
BANK Cost, \$—
ONTARIO, Monterey Co., Cal. Location not selected.
 One-story and mezzanine steel frame and concrete bank.
 Owner — Monterey County Trust & Savings Bank.
 Architect — H. H. Winner Co., 550 Market St., San Francisco.

MODESTO, Stanislaus Co., Cal.—
 Modesto branch of the American unit company, R. K. Whitmore, manager, has purchased property at Seventh and J Sts. as site for a new bank building.

Preparing Working Drawings.
STORES Cost, Approx. \$75,000
KLAND, Alameda Co., Cal. SW
 Nineteenth and Broadway.

Group of one-story steel frame and terra cotta shops and stores.
 Owner — Twentieth and Broadway Realty Co., Oakland.
 Architect—Albert J. Evers, 525 Market St., San Francisco.

Foundations Being Laid By Owner.
STORES Cost, \$—
SAN MATEO, San Mateo Co., Cal. Baldwin Ave. and B St.
 One-story concrete (three or more) stores, 80x125 feet.
 Owner and Builder—S. Wisnom, Fifth and S-Claremont Sts., San Mateo.
 Architect — Edwards & Schary, 605 Market St., San Francisco.

Plans Complete.
STORE Cost, \$130,000
LOS ANGELES, Cal. 3055 Wilshire Blvd.
 Two-story class C brick store and loft (100x169-ft.)
 Owner and Builder — Westmoreland Bldg. Co., Ltd.
 Architect—Walker & Eisen, Western Pacific Bldg., Los Angeles.

Contract Awarded.
STORES, ETC. Cost, \$2,000,000
SEATTLE, Wash. Third Avenue bet. Madison and Spring Sts.
 Twenty-five-story (tower type) reinforced concrete stores and offices.
 Owner—City Light Building Co.
 Architect—Earl Morrison, Lloyd Bldg., Seattle.
 Contractor—Sound Const. & Eng. Co., Northern Life Tower, Seattle.
 The greater portion of this structure will be leased to the City of Seattle to be occupied by the City Light Department. The structure will have basement, sub-basement and 3 main floors, all of which will be leased by the city light department. Above the third floor the building sets back to a tower 130x70 ft. in area. The tower continues to the 25th floor where it again steps back slightly to permit flood lighting. The top floor is also leased to the city light department for use of load dispatchers six or seven elevators will be installed.

Plans Being Figured.
STORES Cost, \$—
SALINAS, Monterey Co., Cal. Monterey Street.
 One-story concrete stores (stucco exterior, tile roof; 85x90-ft.)
 Owner—S. M. Baker.
 Architect—Swartz & Ryland, Spaulding Bldg.; Monterey: 373 Main St. Salinas and Brix Bldg., Fresno.

Sub-Contracts Awarded.
STORE Cost, \$80,000
SAN FRANCISCO, 2718 Mission St.
 Three-story concrete store.
 Owner—S. H. Kress Co., 621 S Broadway, Los Angeles.
 Plans by Eng. Dept. of Owner.
 Contractor—K. E. Parker Co., 135 So. Park

Brick Work—George Barton, 4338 Balboa St.
Plumbing—W. E. Trousdale, 422 Turk Street.
Electric—Langlais Electric Co., 472 Tehama St.
Mill Work—Sunset Lumber Co., 400 High St., Oakland.
Lumber—J. H. McCallum, 748 Bryant Street.
Steel—Pacific Coast Steel Co., 215 Market St.
Plastering—John Eshia, Russ Bldg.
Painting—D. Burgess, Richmond.

As previously reported, excavating awarded to Sibley Grading & Teaming Co., 165 Landers St., Santa Clara Co., Gladding, McPeck & Co., 660 Mark St. structural steel to McClinton-Marshall Co., 2050 Bryant St.

Plans Being Completed.
PHYSICIANS' BLDG. Cost, \$50,000
SAN JOSE, Santa Clara Co., Cal. Sixth and St John Streets.

One and two-story frame and cast stone veneer physicians' building (cover area of 7500 sq. ft.)
 Owner — Group of Local Physicians, including Drs. A. J. Bawchi, T. L. Hanchard, C. S. Sullivan, et al.
 Architect—Herman Krause, P. O. Box 783, San Jose.
 Will be known as Physicians' Court Bldgs will be taken in about two weeks.

Bids To Be Taken in Two Weeks
STORES Cost, \$12,500
SAN JOSE, Santa Clara Co., Cal.
 Two-story brick and concrete stores and offices.
 Owner—Wm. Geoffrey, 296 S-Second St., San Jose.
 Architect—Herman Krause, P. O. Box 783, San Jose.

Construction Postponed Indefinitely.
STORE Cost, Approx. \$20,000
HAYWARD, Alameda Co., Cal. Watkins St. near G St.
 Two-story brick store.
 Owner—Soares Food Stores, 613 Watkins St., Hayward.
 Architect—Not Selected.

Reinforcing Steel Contract Awarded.
ANNEX Cost, \$1,500,000
SAN FRANCISCO Rush Street near Montgomery (50x137 ft.)
 Twenty-two-story Class A reinforced concrete annex to building.
 Owner—Mills Estate, Inc. (Curtis D. O'Sullivan, President), Mills Bldg., San Francisco.
 Architect—Lewis P. Hobart, Crocker Bldg., San Francisco.
 Contractor — Lindgren & Swinerton, Inc., 225 Rush St., San Francisco.
 Will be known as Mills Tower.
Reinforcing Steel—Gunn, Carle & Co., 444 Market St., San Francisco.
 As previously reported, excavation awarded to Sibley Grading & Teaming Co., 165 Landers St., S. F.; structural steel to McClinton-Marshall Co., 2050 Bryant St., S. F.; Calsonk work to D. J. & T. Sullivan, 1942 Folsom St.

THEATRES

Construction Postponed Indefinitely.
THEATRE Cost, \$200,000
WOODLAND, Yolo Co., Cal.
 Class A theatre (to seat 1200).
 Owner—National Theatres Syndicate, 25 Taylor St., San Francisco.
 Architect—Bliss & Fairweather, Balboa Bldg., San Francisco.
 L. R. Cook is President and General Manager of National Theatres Syndicate.

Plans Being Prepared.
ALTERATIONS Cost, \$50,000
OAKLAND, Alameda Co., Cal. No. 1445 23rd Avenue.
 Alterations to Class C steel frame and concrete theatre (wood joists)
 Owner—Golden State Theatre & Realty Co., 25 Taylor St., S. F.
 Architect—Reid Bros., 105 Montgomery St., San Francisco.

Completing Plans—Contract Awarded
THEATRE Cost, \$300,000
LOS ANGELES, Cal. Twelfth and Vermont Sts.
 Thirteen-story and basement reinforced concrete theatre, store and studio (42x126 feet)
 Owner—H. E. Rawlingson, President L. A. Conservatory of Music, Los Angeles.
 Architect—Lloyd Raby, 1411 N. Stanley Ave., Los Angeles.
 Contractor—Winter Construction Co., 2404 W-Seventh St., Los Angeles

BAKERSFIELD, Kern Co., Calif.—John Carnakis, operating the Virginia Theatre, 1224 19th St., will expend \$25,000 in installation of Western Electric Movietone equipment, rebuilding heating and ventilating system and painting and decorating.

Contract Awarded.

THEATRE Cost, \$1,250,000
LOS ANGELES, Cal. SE Wilshire Blvd. and Western Ave.

Twelve-story Class A reinforced concrete, steel and brick theatre and offices (199x300x182 feet).

Owner—Serrano Corp.

Architect—Morgan, Walls & Clements (offices), Van Nuys Bldg., Los Angeles; G Albert Lansburgh, 140 Montgomery St., San Francisco. (theatre).

Contractor—Williams Simpson Construction Co., Architects Bldg., Los Angeles.

Plans Being Revised.

ALTERATIONS Cost, \$60,000
OAKLAND, Alameda Co., Cal. No. 5631 College Avenue.

Alterations to two-story Class C brick theatre.

Owner—Up Town Theatre, Premises. Architect—A. A. Cantin, 544 Market St., San Francisco.

New bids will be called immediately

Plans Being Completed.

ALTERATIONS Cost, \$50,000
OAKLAND, Alameda Co., Cal. No. 1445 Twenty-third Avenue.

Alterations to Class C steel frame and concrete theatre (wood joists)

Owner—Golden State Theatre & Realty Co., 25 Taylor St., San Francisco.

Architect—Reid Bros, 105 Montgomery St., San Francisco.

Bids will be taken in about one week.

WHARVES AND DOCKS

SAN DIEGO, Cal.—Chas. McCormick Lumber Co., San Diego, awarded contract by the city purchasing agent, A. V. Godel, for furnishing creosoted piling for the Harbor Dept. to complete the Broadway pier. The required quantities are: 150 piles, 52 ft. long; 75 piles, 54 ft. long; 22 piles, 40 ft. long; 20 piles, 38 ft. long; 35 piles, 36 ft. long; 5 piles, 34 ft. long; 20 piles, 30 ft. long. The average price per foot was 80 cents. J. H. Baxter & Company bid 80c foot. Texas Creosoting Co. bid ran from \$1.09 to \$1.19 per ft. with Pine specified instead of Douglas Fir as called for by specifications

OAKLAND, Alameda Co., Cal.—Until Nov. 3, 4:30 P. M., bids will be received by City Port Commission, 424 Oakland Bank Building, for laying track materials to serve 348-ft. extension at Outer Harbor Terminal. Plans obtainable from Commission.

MISCELLANEOUS CONSTRUCTION

HAYWARD, Alameda Co., Cal.—Ranatti & Son, Novato, at \$4000 awarded contract by Poultry Producers of Central California, C and Grand Sts., to construct a culvert 133 ft. long; also the foundation for a building, 54x150 feet.

MODESTO, Stanislaus Co., Cal.—American Lumber Co., Modesto, at \$145 yd. awarded contract by Modesto Irrigation District to furnish and deliver 2700 cu. yds. gravel and sand aggregate at various points in the district for canal lining purposes.

SAN FRANCISCO.—Until Nov. 10, 3 P. M., under Proposal No. 653, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish and deliver rolled steel car wheels for Municipal Railway, as follows:

500, diameter 34 inches.
48, diameter 28 inches.
Specifications obtainable from above.

Contract Awarded.

HATCHERY Cont. Price, \$14,618
CHESTER, Plumas Co., Cal. Near Lake Almanor.

Fish hatchery and residence.

Owner—State of California.
Architect—State Department of Public Works, Division of Architecture, Public Works Bldg., Sacramento.

Contractor—Red River Lumber Co., Westwood.

MONTEREY, Monterey Co., Cal.—E. H. Sundberg, Pacific Grove, at \$2185 awarded contract by city clerk, to lay brick paths and construct brick pavements in and over the recreational area in the Friendly Plaza, adjoining Colton Hall.

Following is a complete list of bids:
E. H. Sundberg, Pacific Grove...\$2185
Ernest H. Raymond, Pacific Grove 2342
M. J. Murphy, Inc., Carmel...2570

Contract Awarded.

UNDERTAKING ESTABLISHMENT Cost, \$14,000

SUISUN, Solano Co., Cal. Main St. Two-story frame and stucco undertaking establishment and (1) apartments (46x107 ft.)

Owner—W. C. Hansen, Suisun.

Private Plans.

Contractor—F. A. Younger, Suisun.

Construction has just been started.

COALINGA, Fresno Co., Cal.—Until November 3, 7:30 P. M., bids will be received by E. J. McCroskey, city clerk, to clean entire interior surfaces of municipal hard water storage tank, by scraping, wire brushing and chipping where necessary, so that surfaces of tank, stand-pipe and underside of cover, are ready for painting. After interior surfaces have been cleaned, contractor to apply one coat of Bitumastic Solution to the interior surfaces of tank and stand-pipe, and two coats of Bitumastic Solution to the underside of cover.

After the interior surfaces have been coated, contractor to apply one hot coat of Bitumastic Enamel to the surfaces of tank and stand-pipe, furnishing all labor and material. Certified check 10% required with bid. Specifications obtainable from city superintendent.

FRESNO, Fresno Co., Cal.—Until November 6, 10:30 A. M., bids will be received by H. S. Foster, city clerk, to furnish and install wire fencing, as follows:

632-ft. 5-ft. height No. 9 wire, 2-in. mesh, chain link fence with line post and anchors. Line post not to be over 10-ft. center to center.

Two double slide 5-ft. height gate with No. 9 wire, 2-in. mesh, chain link fabric for 50-ft. opening.

One double slide 5-ft. height gate with No. 9 wire, 2-in. mesh, chain link fabric for 46-ft. opening.

Two double slide 5-ft. height gate with No. 9 wire, 2-in. mesh, chain link fabric for 20-ft. opening.

Certified check 10% payable to city required with bid. Plans on file in office of city clerk.

See call for bids under official proposal section in this issue.

Detail Plans Being Made.

PARK, ETC. Cost, \$10,000
SANTA ROSA, Sonoma Co., Cal. Park and playground.
Owner—City of Santa Rosa.

Landscape—Howard Gilkey, Howden

Bldg., Oakland.

This work is to be done in connection with Memorial Park which will cover 20 acre site.

Construction Postponed Indefinitely.
MAUSOLEUM Cost, \$10,000

HOLLISTER, San Benito Co., Cal. Catholic Cemetery.
Reinforced concrete mausoleum (to accommodate 110 crypts).

Owner—Rev. D. J. Keenan, Hollister. Architect—Vincent Buckley, Underwood Bldg., San Francisco.

MISCELLANEOUS SUPPLIES AND MATERIALS

LOS ANGELES, Cal.—Bids will be asked at once by the county supervisors to furnish and deliver 200 tons of used boiler tubing. Further information obtainable from county clerk.

BUSINESS OPPORTUNITIES

Names and addresses of persons or firms concerned in these opportunities will be furnished on request to Business Opportunity Department, Larsen Advance Construction Reports, 547 Mission St., San Francisco, or phone GARfield 8744:

20579—Tiles, Ceramic Ware. Washington, D. C. Party inquires for principal importers of glazed and fancy tiles, also Spanish ceramic ware

20580—Agency. San Francisco, Cal. Salesman conducting large business in tractors and other machinery in South Africa is anxious to secure agencies in such lines as tar boilers, forges, stone crushers, picks and shovels.

20588 — Lumber. Buenos Aires, Argentina. Firm wishes to contact exporters of pine, plywood, redwood, mahogany, oak, etc., to Argentina.

20594 — Representation. Oakland, Cal. Sales manager with splendid business connection all over Great Britain, Canada, Australia, New Zealand, South Africa, Egypt and India, solicits sales connection.

Louis C. Renfro, 45 Green St., Charleston, Mass., desires to get in touch with firm or individual having a California product for marketing in Boston and vicinity.

Specialty Sales System, (E. A. Lambert, president), 20th and Galena Sts., Milwaukee, Wis., desires to represent San Francisco manufacturers of items of merit, preferably specialty items. Will also consider articles which are sold to the building construction trade.

Mid-West Incinerator Corp., (Wm. Krueger, Sales Department), seeks an agent to represent their line of incinerators in this city and vicinity. Prefer someone who is familiar with the building specialty lines, or one who has a wide acquaintance among architects and builders.

Silica Co. of California, with headquarters in San Francisco, has filed articles of incorporation at Martinez. The company is developing sand deposits between Brentwood and Eyrone in Contra Costa County, for the extraction of silica to be used in the manufacture of glass. Directors of the corporation are: C. L. Gorr, F. E. Verdier and Theodore Monell, all of San Francisco; O. H. Bertsch, San Mateo; Horace Beverly, Oakland.

Engineering News Section

BRIDGES

BUTTE COUNTY, Cal.—Until Nov. 15, 2 P. M., bids will be received by State Highway Commission to construct substructure of a bridge over North Fork of the Feather River at Pulga, consisting of two reinforced concrete abutments, two reinforced concrete piers, six concrete footings and four section anchors.
See call for bids under official proposal section in this issue.

ROSEVILLE, Placer Co., Cal.—Until November 5, 11 A. M., bids will be received by A. S. Fleming, county clerk, to construct reinforced concrete girder bridge over Coon Creek, 5 miles east of Sheridan, being Bridge No. 7 on Road 37. Certified check 10% payable to county clerk required with bid. Plans obtainable from County Surveyor J. A. Shields on deposit of \$10, returnable.

SOLANO COUNTY, Cal.—Geo. J. Ulrich Construction Co., Modesto, at \$1,462 awarded contract by State Highway Commission to widen to a clear width of 23 ft., five concrete bridges between Vacaville and Dixon.

CLOVERDALE, Sonoma Co., Cal.—Until November 10, 8 P. M., bids will be received by Maud E. Kelson, city clerk, to construct certain culverts within city limits. Certified check 10% payable to city clerk required with bid. Plans on file in office of clerk.

SANTA MONICA, Cal.—Civic organizations have endorsed plans prepared by Howard B. Carter, city engineer, for a viaduct to be built between Santa Monica Canyon and the Palisades at Marguerita Ave. Estimated cost \$500,000.

STOCKTON, San Joaquin Co., Cal.—John Hachman, Sonora Road and Walker Lane, Stockton, at \$1,180 awarded contract by county supervisors to construct concrete and timber bridge over Littlejohn Creek on Kaiser Lane, one mile SE of Stockton. Other bids were: Nelson Bros., \$1,270; Edw. R. Jameson, \$1,295; J. E. Fitzsimmons, \$1,345.

LOS ANGELES COUNTY, Calif.—Robert E. McKee, 515 Hewitt Street, Los Angeles, at \$29,785 submitted low bid to State Highway Commission October 29 to construct reinforced concrete girder bridge over The Atchison, Topeka and Santa Fe Railway at Manhattan Beach, consisting of one 42-ft. span, two 31-ft. spans, and one 30-ft. 10-in. span and one 30-ft. 2-in. span on concrete bents. A complete list of bids follows:

Robt. E. McKee, Los Angeles.....	\$29,785
Herbert Baruch Corp., Ltd., Los Angeles	29,936
J. S. Metzger & Son, L. A.....	29,969
Houghton & Anderson, L. A.....	31,190
O. A. Geirlich, Monrovia.....	31,915
Campner Bros., Inc., Beverly Hills	32,230
Bodenhamer Const. Co., San Diego	33,155
Oberg Bros., Los Angeles.....	32,509
Robt. E. Homann Co., L. A.....	35,821
Bids held under advisement.	

SAN LUIS OBISPO CO., Cal.—Wm. Lane, Paso Robles, awarded contract by State Highway Commission at \$4,998 to construct a timber bridge con-

sisting of six 19-ft. spans and two 18-ft. spans on pile bents to bridge a gap in the existing structure across the Santa Maria River.

LOS ANGELES, Calif.—Byerts and Dunn, 7908 Santa Monica Blvd., submitted low bid to the county at \$19,970 to construct a reinforced concrete bridge on Pomona Blvd. across Alhambra Wash.

SANTA BARBARA, Cal.—Until November 6, 1:30 P. M., bids will be received by Geo. D. Geib, city clerk, to construct timber bridge over Alisos Creek at Indio Muerto St., involving: 9,200 bd. ft. lumber;

18 cu. yds. concrete;
50 cu. yds. excavation (unclass.);
Certified check 10% required with bid. Plans obtainable from City Engineer E. B. Brown, on deposit of \$10 returnable.

MERCED, Merced Co., Cal.—Until November 12, 11 A. M., bids will be received by P. J. Thornton, county clerk, to construct six concrete bridges and one timber pile bridge in various sections of the country, as follows:

No. 218, concrete, over canal in Road District No. 3.

Bridge No. 219, concrete, over canal in Road District No. 3.

Bridge No. 220, concrete, over canal in Road District No. 3.

Bridge No. 221, concrete, over canal in Road District No. 3.

Bridge No. 222, concrete, over canal in Road District No. 3.

Bridge No. 223, concrete, over canal in Road District No. 3.

Bridge No. 224, timber pile bridge on the Fremont Ford Road in Road District No. 4.

Certified check 10% payable to Chairman of the Board of Supervisors required with bid. Plans obtainable from W. E. Bedesen, county surveyor, on deposit of \$10, returnable.

SAN MATEO COUNTY, Cal.—Bodenhamer Const. Co., San Diego, at \$35,756 submitted low bid to State Highway Commission Oct. 29 to construct a reinforced concrete girder bridge over Redwood Slough near Redwood City, consisting of three 35-ft. spans and one 22-ft. span on concrete pile bents. Complete list of bids follows:

Bodenhamer Const. Co., San Diego	\$35,756
R. E. McKenzie, Red Bluff.....	37,141
Geo. J. Ulrich Const. Co., Modesto	37,289
Frederickson & Watson and Frederickson Bros., Oakland	38,097
A. W. Ritchie, San Francisco.....	39,267
H. C. Yensano, San Francisco.....	41,224
Healy-Tibbitts Const. Co., S. F.....	41,890
C. J. Nystedt, Oakland.....	43,033
Bids held under advisement.	

DREDGING, HARBOR WORKS & EXCAVATIONS

LONG BEACH, Cal.—Until 2:30 P. M., Nov. 5, bids will be received by the city manager, C. C. Lewis, for repairing the bulkheads at Berths No. 3 and No. 11, and repairing concrete beams, etc., at Piers A and B, Outer Harbor. Plans may be seen at the office of the Chief Engineer, Harbor Dept.

IRRIGATION PROJECTS

MODESTO, Stanislaus Co., Cal.—American Lumber Co., Modesto, at \$145 yd. awarded contract by Modesto Irrigation District to furnish and deliver 2700 cu. yds. gravel and sand aggregate at various points in the district for canal lining purposes.

WENATCHEE, Wash.—W. T. Hatchell, engineer Dexter-Horton Bldg., Seattle, is making surveys for Irrigation work in connection with Howard Flat Irrigation District in Chelan Co. The project will involve an expenditure of \$300,000.

EL NIDO, Merced Co., Cal.—Election will be held November 17, in El Nido Irrigation District to vote bonds of \$135,000 to finance construction of irrigation works. W. A. Wright is secretary of the district.

MODESTO, Stanislaus Co., Calif.—Pacific Const. Co., 2235 East 7th St., Oakland, at \$4,522 awarded contract by Modesto Irrigation District for placing 131,500 sq. ft. 24-in. concrete canal lining and 5,600 sq. ft. 2-in. concrete canal lining.

Pacific Const. Co., at \$1,250 awarded contract to place 50 cu. yds. concrete in walls and floor of main canal tunnel.

Pacific Const. Co., at \$857 awarded contract to raise concrete sidewalks of Upper Canal, involving 940 cu. ft. concrete.

Bids for placing with reinforcing steel of 200 cu. yds. of concrete in sidewalks, weirs, etc., have been taken under further advisement.

STREET LIGHTING SYSTEMS

RED BLUFF, Tehama Co., Cal.—City council declares intention (1911-12) to install ornamental street lighting standards together with underground system in Walnut St., etc. Standards of Union Metal Mfg. Co. Design No. 792, 1-light 1911 Act Hearing Nov. 10. Enville C. Spaulding, city clerk.

SACRAMENTO, Cal.—Property owners in H street between Twelfth and Nineteenth Sts., petition city council to install ornamental street lighting system. The same type of standard will be installed as is now in H St., between Sixth and Twelfth streets. The cost is estimated at between \$3 and \$3.50 per front ft. Fred J. Klaus is city engineer.

MACHINERY AND EQUIPMENT

LONG BEACH, Cal.—Gardner-Denver Co., 939 Santa Fe Ave., Los Angeles, awarded a contract by the city manager at \$1425 for furnishing one portable air compressor; Spec. C-489

PASADENA, Cal.—Consolidated Steel Corp., 1200 N. Main St., Los Angeles, awarded contract by city directors at \$22,510 to furnish and install electric hoist for the Municipal Light Plant. The low bid of the Judson-Pacific Co., of San Francisco did not meet the specifications.

NAVY, P. I.—Bureau of Yards and Docks, Navy Department, Wash-

ington, D. C., will ask bids shortly, under Specification No. 6187, for reeling and procuring air compressors at the Naval Station, Cavite, P. I. The project involves the furnishing and installation of motor driven and steam driven air compressors on foundations to be furnished by the Government. Applications for plans may be filed with the Commandant, Mare Island Navy Yard, accompanied by checks for \$5, payable to Chief of the Bureau of Yards and Docks. The deposit is returnable.

SANTA BARBARA, Cal.—Until 2 P. M., Oct. 30, bids will be received by the city purchasing agent, Carl E. Hasse, to furnish light truck equipped with dump body. Further information obtainable from purchasing agent. Cert. check or bond, 10%.

FULLERTON, Orange Co., Calif.—Until Nov. 18, 7:30 P. M., bids will be received by F. C. Hezmalhalch, city clerk, to furnish and deliver:

Item 1. One motor truck chassis, including closed cab and dual wheels, of 1½-ton capacity, with St. Paul hydraulic hoist. Model 4-UBS, specifications to be furnished by the bidder, said hoist to be installed on chassis.

Item 2. One small coupe automobile, 1930 model, specifications to be furnished by the bidder.

MARE ISLAND, Cal.—Bids will be asked shortly by the Bureau of Yards and Docks, Navy Department, Washington, D. C., under Specification No. 6310, for a 40-ton electric gantry crane and runway at the Mare Island Navy Yard. Individuals or firms desiring bidding data should forward to the Commandant, Navy Yard, Mare Island a check or postal money order for \$5, payable to the Chief of the Bureau of Yards and Docks, as security for the safe return of the drawing and specifications, with request that they be furnished them. Applications and deposits will be placed on file, and the drawing and specification mailed as soon as they are available.

RAILROADS

SAN FRANCISCO.—Until Nov. 10, 2 P. M., under Proposal No. 653, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish and deliver rolled steel car wheels for Municipal Railway, as follows:

500, diameter 34 inches.

48, diameter 28 inches.

Specifications obtainable from above.

OAKLAND, Alameda Co., Cal.—Until Nov. 3, 4:30 P. M., bids will be received by City Port Commission, 421 Oakland Bank Building, for laying track materials to serve 3½-ft. extension at Outer Harbor Terminal. Plans obtainable from Commission.

STOCKTON, San Joaquin Co., Cal.—City council has recommended to Interstate Commerce Commission granting joint permit to Western Pacific and Santa Fe Railroads to construct spur track through the Boggs Tract and across Rough and Ready Island along the deep water channel.

FIRE ALARM SYSTEMS

SAN CARLOS, San Mateo Co., Cal.—City Council has authorized the installation of a box fire alarm system; estimated cost \$900. System will be installed by members of the fire department.

FIRE EQUIPMENT

FAIRFIELD, Solano Co., Cal.—City council contemplates bond issue to raise funds to finance purchase of a motor driven fire engine.

SAN FRANCISCO.—Following bids taken under advisement by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish fire hose:

(a) 2,000 ft. 3½-inch;

(b) 12,000 ft. 2½-inch;

(c) 5,000 ft. 1½-inch.

American Rubber Mfg. Co. (a) \$1.03;

(b) \$.53; (c) \$.33.

Pioneer Rubber Mills (a) \$.98; (b)

\$.539; (c) \$.345.

RESERVOIRS AND DAMS

BENBOW, Humboldt Co., Calif.—Benbow Co. will construct a dam in the south fork of the Eel River two miles below the Hotel Benbow to provide power for Benbow Light and Power Company which concern supplies light and power to the town of Garberville and to other properties. The dam will cost \$50,000.

SANTA ANA, Orange Co., Cal.—A. Kempkey, consulting engineer, Hobart Bldg., San Francisco, is making explorations in Santiago Creek, above Orange County Park, at the site of the proposed dam to be built jointly by the Irvine Co., the Serrano Irrigation District, and the Carpenter Irrigation Districts. The dam for which bonds have been voted, will cost about \$750,000.

SAN DIEGO, Calif.—H. N. Savage, city hydraulic engineer, recommends to city council the construction of a 154-ft. dam in Mission Gorge, about 10 miles from San Diego; estimated cost \$4,700,000. Funds, the engineer reports, could be secured by transferring \$3,250,000 El Capitan bonds, \$500,000 Chollas reservoir funds, \$600,000 Sutherland dam funds, and \$350,000 of the surplus from the Otay pipe line funds. He recommended that the approval of voters be asked at the election next April. The city council has taken the report under advisement for study.

LOS ANGELES, Cal.—Maguire and Young, 1009 Central Bldg., submitted low bid to county at \$3620 for exploration tunnels for San Gabriel Dam No. 1. The items upon which bids will be taken are:

(1) 725 ft. driving 16 tunnels, more or less, without timbering;

(2) 75 ft. driving 16 tunnels, more or less, where timbering is necessary, including excav. and all timbering costs. The bids were:

	(1)	(2)
Maguire & Young.....	\$5.75	\$7.45
J. G. Donovan.....	6.35	7.65
F. G. Cannon.....	7.00	9.50
Gist & Bell.....	7.00	8.50
H. E. Warden.....	9.15	9.65
Dan G. Munro.....	9.75	11.00
H. M. Earuch Corp.....	12.00	7.00
Soteras Const. Co.....	11.00	18.00
M. N. Guho.....	14.00	18.00

LOS ANGELES, Cal.—F. G. Cannon, 4271 Lincoln Ave., Culver City, at \$10,402.50 submitted low bid to county supervisors to drill 23 diamond drill holes at the site of San Gabriel Dam No. 1, Continental Diamond Drill Co. only other bidder at \$12,795. Unit bids, as per proposition listed in our issue of October 18, follow:

F. G. Cannon, (1) \$3.75; (2) \$4.30;

(3) \$4.30; (4) \$4; (5) \$4.55; (6) \$4.55;

Continental Diamond Drill Co., (1)

\$4.95; (2) \$4.45; (3) \$4.45; (4) \$5.65;

(5) \$5.45; (6) \$5.45.

PIPE LINES, WELLS, ETC.

SAN FRANCISCO.—Western Pipe & Steel Co. of California, 444 Market St., at \$648,867 for welded pipe and \$671,507 for lockbar has submitted only regular bid to the Board of Public Works to construct the Newark-San Lorenzo Pipe Line, under Contract No. 122, Hetch Hetchy Project, involving 12.7 miles of pipe line. Montague Pipe and Steel Co., San Francisco, submitted the only other bid, which was rejected due to the fact that the company asked certain regulation with regard to the time limit and bonus conditions.

SEWERS AND SEWAGE DISPOSAL PLANTS

FAIRFIELD, Solano Co., Cal.—City council contemplates bond issue to secure funds to finance improvements to sewage system.

OAKDALE, Stanislaus Co., Cal.—City council plans to extend sewer system in Laurel Ave. at a cost of \$600 and water and sewer extensions in Maxwell Ave. for distance of approximately 350 ft.

MOUNT VERNON, Wash.—Thomas Scalzo, 1929 Lane St., Seattle, at \$93,766 awarded contract by city council to construct approx. four miles of clay pipe sewers, including pump houses, sewer pumps, manholes and catch-basins. C. E. Orisy, engineer, Republic Bldg., Seattle.

SOUTH SAN FRANCISCO, San Mateo Co., Cal.—See "Streets and Highways," this issue. Resolution of intention to improve Industrial Way and portion of Butler road and certain rights of way.

SEATTLE, Wash.—E. French Chase city sanitary engineer, is preparing plans for the Charleston St. unit of the Lake Washington intercepting sewerage system; estimated cost, \$200,000. Bids will be asked about Jan. 1. Three pumping stations will be included in the project.

SAN FRANCISCO.—L. J. Cohn, 1 De Haro St., at \$11,961 submitted low bid to Board of Public Works to construct Army St. sewer between Pennsylvania Ave. and Mississippi St., involving:

DO NOT RISK AN EXPERIMENT

SPECIFY -- USE

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STRONG—PURE—PLASTIC

Ten Years of Uniformly Satisfactory Experience in High

Class Pacific Coast Construction

FOR BRICK MORTAR, WHITE COAT AND SAND FLOAT FINISH

Sold by Representative Dealers Everywhere

363 lin. ft. 2-ft. 6-in. by 3-ft. 9-in. reinforced concrete sewer;
464 lin. ft. 2-ft. 6-in. by 3-ft. 9-in. reinf. conc. sewer exclusive of piles;
827 lin. ft. 6-in. V. C. P. under-drain covered with concrete or embedded in broken rock;
1 reinforced concrete special structure, exclusive of piles;
2 brick or concrete manholes;
1,300 lin. ft. wood piles, below cut-off in place.

E. J. Tracy, \$12,144; M. J. Lynch, \$12,914 were next two low bidders. Complete list of bids will be published tomorrow.

SOUTH SAN FRANCISCO, San Mateo Co., Cal.—See "Streets and Highways," this issue. Resolution of intention to improve Industrial Way and portion of Butler road and certain rights-of-way.

MISCELLANEOUS CONSTRUCTION

VANCOUVER, B. C.—Until Dec. 1, bids will be received by Canadian Pacific Railway to construct 4,600-foot tunnel, connecting company's right-of-way in Burrard Inlet with its False Creek Yards; will be 22½-ft. high, varying in width from 35-ft. to 16-ft. Contractors are also asked to figure on the construction of a 2-ft. concrete lining with which the roof and sides of the tunnel will be reinforced throughout its entire length. Excavation will involve approximately 86,000 cu. yds., the strata ranging from sand to rock. Plans obtainable from C. A. Cottrell, general superintendent of the B. C. district at Vancouver.

WATER WORKS

ANTIOCH, Contra Costa Co., Cal.—Until November 10, 8 P. M., bids will be received by J. E. McElheney, city clerk, to construct cast iron water mains in portions of B St. and 9th St. Certified check 10% payable to Town of Antioch required with bid. Plans on file in office of clerk.

OAKLAND, Cal.—Until Nov. 3, 5:30 P. M., bids will be received by John H. Kimball, secretary, East Bay Municipal Utility District, to furnish 3,800 lin. ft. of 4-inch thickness 24-inch diameter electric welded steel pipe for distributing system. Specifications obtainable from secretary at Room 33, 512 16th St., Oakland.

RENTON, Wash.—Until Nov. 4, 5 P. M., bids will be received by Agnes Edwards, city clerk, to furnish and deliver Seattle, 20 days after award of contract, 4,200 lin. ft. 10-in. class B bell and spigot sand-cast c. i. pipe.

MARTINEZ, Contra Costa Co., Cal.—O. G. Ritchie, 154 North 11th Street, San Jose, at \$1,517 awarded contract by Southern Pacific Co. to haul, unload and trench and backfill for c. i. water pipe line between Bay Point road and south abutment of the Martinez-Penicia Bridge.

RENTON, Wash.—Until Nov. 11, 5 P. M., bids will be received by Agnes Edwards, city clerk, to furnish and deliver 850 meters for Municipal Water Department:

(a) 800 5¾-in.;

(b) 50 3-in.;

Bidders are to furnish specifications. Further information obtainable from clerk.

EUREKA, Humboldt Co., Cal.—Until November 5, 8 P. M., bids will be received by John Griffith, city superintendent of public works, 524 D St., to furnish and deliver 1,800 lin. ft. of 16-in. class B cast iron water pipe or equal with bell and spigot joint; f.o.b. wharf, Eureka. Delivery not sooner than 5 days and not later than 60 days after award of contract.

SEATTLE, Wash.—Board of Public Works will ask bids in about three weeks to construct reservoir and two standpipes for Municipal Water Department; estimated cost \$750,000. Will form gravity system for West Seattle district to be fed by the \$1,000,000 Lake Youngs pipe line, replacing the present pump system.

The two steel standpipes will each be 30 ft. high and 92 ft. in diameter, with a capacity of 1,000,000 gallons each. They will be located at Fourth Ave. Southwest and Trenton St. extended. Two contractors, one for grading and the other for the tanks, will be involved in the standpipe construction. Est. cost \$75,000.

Two reservoirs are planned, but only one will be constructed at this time. It will have a capacity of 75,000,000 gallons and will be located bet. West Barton street and West Cloverdale and from Eighth Ave. southwest to Fourth Ave. southwest. Cost of one reservoir together with valve houses is placed at \$700,000. Grading and lining contracts will be involved on the reservoir job.

SPOKANE, Wash.—Morrison-Knudsen, 319 Broadway, Boise, Idaho, at \$81,283 awarded contract by city council to construct 1,250,000-gallon concrete water tank, together with connecting pipe lines.

PITTSBURG, Contra Costa Co., Cal.—Assemblyman Robt. P. Easley has prepared estimates of cost for water system development for Pittsburg. The total cost is placed at \$342,524, itemized as follows: Reservoir site, 25 acres, or 1400 sq. ft., \$35,000; dam, \$74,560; concrete work, \$75,000; rights of way, \$8000; 2-pump filtration plant, cost of installation, \$7920.

\$19,500; 5-mile 22-in. line, \$104,544;

COALINGA, Fresno Co., Cal.—Until November 3, 7:30 P. M., bids will be received by E. J. McCroskey, city clerk, to clean and paint interior surfaces of municipal hard water storage tank, by scraping, wire brushing and chipping where necessary, so that

surfaces of tank, standpipe and underside of cover, are ready for painting. After interior surfaces have been cleaned, contractor to apply one coat of Bitumastic Solution to the interior surfaces of tank and standpipe, and two coats of Bitumastic Solution to the underside of cover.

After the interior surfaces have been coated, contractor to apply one hot coat of Bitumastic Enamel to the surfaces of tank and standpipe, furnishing all labor and material. Certified check 10% required with bid. Specifications obtainable from city superintendent.

FAIRFIELD, Solano Co., Cal.—City council contemplates bond issue to raise funds to finance extensions to water system.

EL CENTRO, Imperial Co., Cal.—Pacific States Cast Iron Pipe Co., 417 S. Hill St., Los Angeles, awarded contract by city council at \$4047 to furnish 4000 ft. 6-in. and 3000 ft. 4-in. cast iron pipe. Other bids were: U. S. Pipe & Foundry Co., \$4170; C. G. Clausen & Co., \$4198; National Cast Iron Pipe Co., \$4315.

ANAHEIM, Orange Co., Cal.—Until November 5, 8 P. M., bids will be received by Edward B. Merritt, City Clerk, to furnish and deliver Class B cast iron pipe, as follows:

(1) 2624 ft. 4-in.;

(2) 4576 ft. 6-in.;

(3) 160 ft. 8-in.;

(4) 5000 lbs. fittings.

Further information obtainable from clerk.

BEVERLY HILLS, Los Angeles Co., Cal.—Until 8 P. M., Nov. 12, bids will be received by the city council for constructing reinforced concrete sediment basin, mixing tanks and clarifier structure at Water Treatment Plant No. 2, 340 N. Foothill Rd. Plans were prepared by Salisbury, Bradshaw & Taylor, consulting engineers, Petroleum Securities Bldg., Los Angeles. Estimated cost \$28,000.

PLAYGROUNDS & PARKS

BEVERLY HILLS, Los Angeles Co., Cal.—Until 8 P. M., Nov. 18, bids will be received by the city council for landscape work in Roxbury Park, in accordance with specifications, etc., which may be seen at the office of the city clerk, E. J. Firmlinger.

Detail Plans Being Made.

PARK, ETC. Cost, \$10,000

SANTA ROSA, Sonoma Co., Cal.

Park and playground.

Owner—City of Santa Rosa.

Landscape—Howard Gilkey, Howden

Bldg., Oakland.

This work is to be done in connection with Memorial Park which will cover 20 acre site.

STREETS AND HIGHWAYS

SUTTER COUNTY, Cal.—Until Nov. 10, 2 P. M., bids will be received by C. H. Whitmore, district engineer, State Highway Commission, 502 State Office Bldg., Sacramento, to grade and pave with Portland cement concrete, 0.3 mile near the county hospital in Sutter county.

HUMBOLDT COUNTY, Cal.—Chiegrist & Sutros, San Francisco, at \$15,020 awarded contract by State Highway Commission to grade and surface with untreated crushed gravel or stone, 0.4 mile at High Rock Hill 1911

CONTRACTORS' MACHINE WORKS

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Bunkers, Hoppers, Chuting, Conveyors, Rollers, Mixers, Hoists, Shovels, Tractors, Pavers, Crushers, Drag Lines, Elevators, Car Unloaders, and other Road and Building Equipments;

BLACKSMITHING AND WELDING

Builders of Rosenberg Portable Car Unloaders

CREAR & BATES

57 Zoe St., bet. 3rd and 4th, off Brannan St.

Phone GARfield 4374

San Francisco

SOUTH SAN FRANCISCO, San Mateo Co., Cal.—City council declares intention (72) to improve Industrial Way and a portion of the Butler road and certain rights of way, involving:

7,500 cu. yds. grading for pavement;
5,750 cu. yds. grading for culvert;
150,000 sq. ft. paving, 8-in. conc. base,
2-in. asph. conc. surface;

20,500 sq. ft. sidewalks;

6,250 lin. ft. integral curb and 14-in. gutter;

1,500 lin. ft. integral curb and 7-ft. gutter;

816 lin. ft. 3x6-ft. 6-in. reinf. conc. box culvert (approx. 41 cubic yards per ft.);

856 lin. ft. 3x6-ft. 6-in. do (approx. 43 cu. yds. per ft.);

230 lin. ft. double 4x8-ft. do (approx. 3.01 cu. yds. per ft.);

1,579 lin. ft. do (approx. 1.67 yds. per ft.);

1,029 lin. ft. do (approx. 1.73 cu. yds. per ft.);

230 lin. ft. do (approx. 1.79 cu. yds. per ft.);

73 lin. ft. 4x8-ft. do (approx. .99 cu. yds. per ft.);

13 standard catchbasins with curb inlets;

40 lin. ft. 10-in. concrete pipe;

172 lin. ft. 12-in. do;

16 standard manholes;

713 lin. ft. 10-in. vit. sewer;

955 lin. ft. 12-in. do;

3,397 lin. ft. 15-in. do;

2 special reinf. manholes;

street lighting system, complete, involving 15 standards of Enterprise Cop-Lite c. 1. columns, Wesco-Lite design with G. E. Ornamental Novalux units and lamps, together with underground system.

Est. cost, \$225,000. 1911 Act. Bond Act 1915. Hearing November 17. Daniel McSweeney, city clerk.

OAKLAND, Calif.—Until Nov. 6, 12 noon, bids will be received by Frank C. Merritt, city clerk, to improve portions of E 10th and Russet Sts., E 8th, 47th, 49th, 50th Aves., etc., involving:

431 lin. ft. 12-in. reinf. concrete pipe conduit;

1,147 lin. ft. 15-in. do;

95 lin. ft. 18-in. do;

27 lin. ft. 21-in. do;

228 lin. ft. 24-in. do;

57 lin. ft. 24-in. reinf. concrete pipe with concrete cover;

271 lin. ft. 8-in. vit. pipe sewer;

40 ft. 8x24-in. corr. iron and conc. culvert;

10 ft. 8x29-in. do;

569 ft. 2.25x2.15-ft. conc. arch culvert

95 ft. 3.5x8-ft. conc. box culvert;

7 storm water inlets with 34-inch openings;

6 storm water inlets with 21-inch openings;

1 storm water inlet top with 21-in. opening.

1 concrete handhole with cast iron top;

233 cu. ft. conc. end, curtain and header walls;

2 guard railings;

16 manholes;

2 manhole tops;

1 lamp hole;

Certified check 10% payable to city required with bid. Plans on file in office of clerk. Walter N. Frickstad, city engineer.

BRAWLEY, Imperial Co., Cal.—City Engineer C. J. Park preparing plans to improve streets in west side residential district, involving 220,000 sq. ft. paving; 100,000 sq. ft. sidewalks; 30,000 ft. curb. Est. cost \$90,000.

IMPERIAL COUNTY, Cal.—Hazard Const. Co., 2508 Kettner Blvd., San Diego, at \$489,125 awarded contract by State Highway Commission to grade and pave with asphalt concrete 13.1 miles between Arroyo Salado and the northern boundary.

LOS ANGELES, Cal.—Hall-Johnson Co., 905 Westminister St., Anaheim, at \$116,775 awarded contract by county supervisors to improve Sunset Blvd. and Ellis Lane bet. Duarte Road and Pomona Blvd., involving grading, 505,000 sq. ft. 4-in. Warrenite surface pavement on 4-in. asph. conc. base, etc.

SAN FRANCISCO—J. Verano, at \$21,920 submitted low bid to Board of Public Works to improve Section C of Alemany Blvd.; estimated cost, \$25,000. Project involves:

1,520 lin. ft. 6-in. open tile drain in broken rock;

60 lin. ft. 6-in. V. C. P. drain connections to manholes;

4,620 lin. ft. 8-in. V. C. P. sewer;

5,700 lin. ft. 12-in. do;

900 lin. ft. 15-in. do;

550 lin. ft. 18-in. do;

120 lin. ft. 21-in. do;

165 8x6-in. Y or T branches;

172 12x6-in. do;

30 15x6-in. do;

17 18x6-in. do;

4 21x6-in. do;

62 brick manholes;

54,000 gals. fuel oil for oiling boulevard subgrade in place;

400 lbs. seed barley for slope planting in place.

Next two low bidders were: C. B. Eaton, \$22,134; E. J. Treacy, \$22,552. A complete list of bids will be published tomorrow.

SAN FRANCISCO—C. B. Eaton, 715 Ocean Ave., at \$19,215 submitted low bid to Board of Public Works to improve Cayuga Ave. from Onedio Ave. to Seneca Ave., and Seneca Ave. from Otsego Ave. to Alemany Blvd., etc., involving grading, armored concrete

curbs, 1-course concrete sidewalks, 8-in. and 12-in. vitrified clay pipe sewers, side sewers, brick catchbasins, 2-in. asph. conc. surface pavement on 6-in. class F concrete base.

A. G. Raich next low at \$19,316. Complete list of bids will be published tomorrow.

OAKLAND, Calif.—City council declares intention to improve Hopkins St. bet. Coolidge Ave. and High St., Hopkins St. place and portions of Coolidge Ave., Maple Ave., Laurel Ave., Midvale Ave., 35th, Magee, Loma Vista, Brown, Patterson, 38th, 39th and Maybelle Aves., involving grading, curbs, pave., walks, storm water drains, sewers with manholes, lamp holes and wyes. Est. cost \$100,000. 1911 Act. City will pay 22½% of the total from the Treasury. Hearing November 13. Frank C. Merritt, city clerk. Walter N. Frickstad, city engineer.

SALINAS, Monterey Co., Cal.—City council declares intention (91) to improve Pajaro St. bet. Sausal and Lake Sts., involving grading, hyd. cement concrete curbs, sidewalks, 6-in. hyd. cem. conc. pave. 1911 Act. Bond Act 1915. Hearing Nov. 17. M. R. Keef, city clerk. Howard F. Cozzens, city engineer.

PACIFIC GROVE, Monterey Co., Cal.—Until November 7, 3:30 P. M., bids will be received by Elgin C. Hurlbert, city clerk, (3266) to improve Lighthouse Ave., bet. Alder St. and Dennett St., involving grading, cem. conc. curbs and gutters; 2½-in. asph. conc. base pavement with 1½-in. asph. conc. surface; 2 conc. catchbasins. 1911 Act. Bond Act 1915. Certified check 10% payable to city required with bid. Plans on file in office of clerk. H. Severance, city engineer.

SOUTH SAN FRANCISCO, San Mateo Co., Cal.—City council declares intention (72) to improve Industrial

Way and a portion of Butler road and certain rights-of-way, involving steel reinforced hydraulic cement concrete storm water conduits; grading; hyd. cem. conc. sidewalks, curbs, gutters; 8-in. hyd. cem. conc. pavement with 2-in. asph. conc. surface; 15 electroliners of Enterprise Cop-Lite c. 1. columns, Wesco-Lite design with G. E. Ornamental Novalux units and lamps together with underground system; vit. pipe sewers; manholes; catchbasins. Est. cost \$211,000. 1911 Act. Bond Act 1915. Hearing November 17. Daniel McSweeney, city clerk.

SAN LUIS OBISPO, San Luis Obispo Co., Calif.—City Engineer Leon Moore preparing alternative plans for both cement and asphaltic concrete pavement for streets in the Loma Vista Tract.

SANTA ANA, Orange Co., Calif.—Until November 12, bids will be received by county supervisors to improve Laguna Ave. in 5th Supervisorial District, 2.1-miles in length, involving:

11,500 lin. ft. grading;

1,600 cu. yds. gravel base and shoulders;

5,400 tons asphalt concrete pavement.

County will furnish disintegrated granite on grade. Specifications obtainable from Nat H. Neff, county superintendent of highways.

MERCED COUNTY, Cal.—Representatives of the California Highway Commission, Mariposa and Merced County Officials, and interested property owners met recently at Merced to discuss plans for re-locating 14 miles of the Merced-Yosemite All Year Highway.

Edward Wallace, division highway engineer explained the new routing between Orange Hill School house in the lower Cathay Valley and Mariposa.

Instead of the present route to the right of Guadalupe Mountain, passing through Bridgeport at Agua Fria Creek, the road would run northward toward Mt. Bullion, swing to the right through the old locations of Agua Fria and Carson and follow through Arkansas Flat and over Carson Pass into Mariposa.

The new route would be 1.8 miles shorter than the present road and would eliminate much curvature and grade. It would touch an elevation of 2400 feet, about 500 feet higher than the present road.

The improvement would cost \$700,000, which, according to Wallace, would be \$400,000 less than the cost of improving the present road. M. B. Harris, chairman and George Mansfield secretary of the commission, were present.

MENLO PARK, San Mateo Co., Cal.—B. F. Cain, Menlo Park, at \$635.27 awarded contract by town trustees (30-2) to improve Hoover St., for its entire length and Oak Grove Ave., from point 45 ft. s. w. of Hoover St. to pt. 45 ft. s. e., and Valparaiso Ave. from pt. 45 ft. s. w. of Hoover St., to pt. 45 ft. n. e., involving grading; cem. conc. curbs and walks; part circle galv. iron culverts; 4-in. water-bound rock macadam base pavement with 1½-inch Colas surface; vit. salt glazed pipe sewer laterals. Complete list of bids follow:

B. F. Cain, Menlo Park	\$ 6,365
L. L. Ryder, San Jose	6,523
W. A. Dontanville, Salinas	6,610
M. J. Bevanda, Stockton	8,452
E. Kavanagh, Redwood City	7,121
J. P. Holland, San Francisco	10,757

OAKLAND, Cal.—Heafey-Moore Co., 344 High St., Oakland, awarded contract by city council to improve portions of Marguerite Drive and Hillview Lane, involving excavation, 90.75 cu. yds.; conc. curb, \$70 lin. ft.; conc. gutter, \$.25 sq. ft.; penetration macadam pave., \$.155 sq. ft.; cem. side-walks, \$.165 sq. ft.; conc. inlet with c. i. grating, \$60; 10-in. vit. pipe conduit with concrete covering, \$2.50 lin. ft.; conc. box culvert with reinforced concrete, \$.55 lin. ft.; conc. hand-hole with c. i. cover, \$18.50.

SANTA MARIA, Santa Barbara Co., Cal.—Until November 3, 7:30 P. M., bids will be received by Flora Rivers, city clerk, to improve Cypress St., between Broadway and Suey Ave., and portions of other streets, under 1911 Act, involving:

(1) 94,000 sq. ft. 4-in. asph. concrete pavement;

(2) 53,000 sq. ft. 3-in. oil macadam;

(3) 11,554 sq. ft. cement gutters, with a small amount of incidental work.

Plans on file in office of citrk.

VENTURA, Ventura Co., Cal.—Southwest Paving Co., 801 Washington Bldg., Los Angeles, awarded contract by County at \$230 ton for surfacing shoulders on Hueneme Rd., Saviers Rd., E 5th St. and Woods Rd., Cash Contract No. 608, involving 14,000 tons asphaltic surfacing mixture; total, \$33,200.

MARIN COUNTY, Cal.—Until Nov. 19, 2 P. M., bids will be received by State Highway Commission to grade and surface with bituminous macadam 3.0 miles between Alto and Waldo.

See call for bids under official proposal section in this issue.

OAKLAND, Cal.—City council has started proceedings to improve streets in the Diamond district; estimate cost \$103,000. Streets to be improved include Hopkins from Coolidge Ave. to

High St., and portions of Hopkins street place, Coolidge, Maple, Laurel, Midvale, 35th, Magee, Loma Vista, Patterson, 38th, 39th and Mabel Aves. Plans provide for 7-inch concrete base with 9-inch thickness at edges, surface with macadam.

SANTA BARBARA, Cal.—Until November 6, 2 P. M., bids will be received by Geo. D. Gelb, city clerk, to improve Padre St. bet. State St. and Hollister Ave., and portions of Los Olivos St., Pueblo St., Junipero St. and Wellington Ave., involving:

1733.18 cu. yds. embank;

5753.66 cu. yds. excav;

112,568.5 sq. ft. 7-5-7-in. conc. paving,

including grading;

2559.2 ft. combined conc. curb and 3-

ft. gutter;

382.3 ft. curb;

10,281.3 sq. ft. gutter;

56.6 ft. stone curb to be reset;

29 house sewer connections;

30 ft. 6-in. vit. main sewer;

One 5-ft. manhole;

1.6 cu. yds. 4-in. conc. apron;

23,861.7 sq. ft. cement sidewalk;

6 ft. 24-in. reinf. conc. pipe;

42 ft. 36-in. do;

66 ft. 42-in. do;

16 ft. 12-in. concrete pipe;

15 ft. 8-in. corr. iron pipe;

2 2-ft. corr. iron catchbasins;

1 7-ft. by 7-in. slot catchbasin;

1911 Act. Plans obtainable from E.

E. Brown, city engineer.

ALAMEDA, Alameda Co., Cal.—Until November 5, 8 P. M., bids will be received by W. E. Varcoe, city clerk, to grade industrial highway. Certified check 10% payable to city required with bid. Plans obtainable from City Engineer Burnett Hamilton on deposit of \$10, returnable.

TAFT, Kern Co., Cal.—City council declares intention (225) to improve portions of San Enidito St., involving grading; conc. curbs, walks and gutters. 1911 Act. Hearing Nov. 17. C. A. Page, city clerk.

SANTA ANA, Orange Co., Cal.—Until 11 A. M., Nov. 12, bids will be received by the Orange County Surveyors for widening and repaving portion of Laguna Rd. in Fifth Road District. Plans obtainable from county superintendent of Highways, Nat H. Neff. Cert. check or bond, \$500. J. M. Bucks, county clerk.

LOS ANGELES, Cal.—Following contract awarded by City Purchasing Agent, under Specification No. 2206, to furnish and deliver C. I. Pipe Co. Pacific States C. I. Pipe Co., 30,000 ft. 6-in., \$645 ft.

National C. I. Pipe Co., 30,000 ft. 6-in.

\$.65 ft.

American C. I. Pipe Co., 30,000 ft. 6-in.

\$.65 ft.; 30,000 ft. 8-in., \$.657 ft.

I. S. Pipe & Foundry Co., 10,000 ft.

6-in., \$.61 ft.; 20,000 ft. 8-in., \$.91

ft.; 10,000 ft. 8-in., \$.92 ft.

STOCKTON, San Joaquin Co., Cal.—Until November 17, 11 A. M., bids will be received by Eugene C. Graham, county clerk, to construct road in Bret Harte Gardens, near Manteca, running from Avenue B to the Durham Ferry Rd. Certified check 10% payable to Chairman of the Board of Supervisors required with bid. Plans obtainable from Julius Manthey, county surveyor.

YUBA CITY, Sutter Co., Cal.—City Engineer Edward Von Geldern estimates cost of widening Plumas St., between Forbes and Reeves Aves., at \$3298 involving paving, curbs, gutters, curbs.

SANTA BARBARA COUNTY, Cal.—Until November 19, 2 P. M., bids will be received by State Highway Commission to grade and pave with Portland cement concrete, 0.3 mile at Nojoqui Creek.

See call for bids under official proposal section in this issue.

A. C. GOERIG, SEATTLE CONTRACTOR, RECOMMENDED FOR AWARD ON WAWONA ROUTE, YOSEMITE UNIT

YOSEMITE NATIONAL PARK HIGHWAY, Cal.—A. C. Goerig, 413 Fairview Avenue north, Seattle Wash., at \$627,221 submitted low bid to the U. S. Bureau of Public Roads, San Francisco, October 21, for grading from Station 0 to Station 201 plus 13, Section A-5 of Route No. 2, Wawona Route, and widening from Station 51 plus 86 to Station 79 plus 37 on Section B-2, Route 1, South Road, all in Yosemite National Park, Mariposa County. Award of contract has been recommended. The length of the project is 3.697 miles and the principal items to be done are:

- (1) 20 acres clearing;
- (2) 86,500 cu. yds. excav. unclass.;
- (3) 1500 cu. yds. excav. for struc.;
- (4) 13,500 cu. yds. borrow, unclass.;
- (5) 121,500 sta. yds. overhaul;
- (6) 2,697 miles finish earth graded road
- (7) 506 cu. yds. class A concrete;
- (8) 15,600 lbs. reinf. steel;
- (9) 3150 cu. yds. cem. rubble masonry;
- (10) 2142 lin. ft. corr. metal pipe in place;
- (11) 1026 cu. yds. hand laid rock em-bankment;
- (12) 73,300 cu. yds. mt. hauling borrow and tunnel excav. material;
- (13) 4230 lin. ft. tunnel excavation;
- (14) 1650 lin. ft. gallery excavation;
- (15) 500 lin. ft. one tunnel lining;
- (16) 600 cu. yds. granite lining;
- (17) supplemental item—500 ft enlarge 18x14-ft. gallery;
- (18) Estimate, \$710,788.

The total bids were:

(A) A. C. Goerig, \$627,224.

(B) Utah Const. Co. and Morrison-Knudsen, \$651,145.

(C) J. G. Donovan and Martter and Bock, \$672,158.

(D) C. R. Johnson, \$691,216.

(E) T. E. Connolly, \$695,949.

(F) H. W. Rohl Co., \$720,833.

(G) A. Lindberg, \$738,534.

(H) W. S. Mead, \$751,528.

(I) A. Guthrie & Co., \$760,659.

(J) Youdall Const. Co., \$768,444.

(K) W. A. Bechtel, \$771,610.

(L) MacDonald & Kahn, \$774,440.

(M) Geo. Pollock, \$814,533.

(N) Western Const. Co., \$828,209.

(O) Engineer's estimate, \$710,788.

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)
(1)	\$200.00	\$200.00	\$500.00	\$100.00	\$300.00	\$200.00	\$500.00	\$150.00	\$180.00	\$275.00	\$325.00	\$400.00	\$300.00	\$250.00	\$350.00
(2)	1.00	1.10	1.27	1.40	1.43	1.20	1.00	1.05	1.40	1.24	1.35	1.50	1.40	1.18	.95
(3)	2.00	3.00	2.50	3.00	2.50	2.00	2.50	2.00	2.00	2.00	4.50	2.50	2.00	3.00	2.00
(4)	.75	.50	.25	.40	.20	.30	.25	.55	.40	.45	.50	.40	.30	.20	.50
(5)	.02	.03	.04	.03	.02	.02	.02	.02	.05	.03	.05	.05	.01	.02	.04
(6)	1000.00	600.00	300.00	400.00	200.00	400.00	1000.00	350.00	400.00	400.00	300.00	300.00	500.00	200.00	300.00
(7)	30.00	32.00	45.00	35.00	32.00	30.00	30.00	32.00	35.00	30.00	40.00	35.00	30.00	45.00	32.00
(8)	.10	.10	.08	.08	.07	.08	.07	.08	.07	.08	.07	.06	.07	.06	.07
(9)	20.00	13.00	18.00	15.00	12.00	12.00	15.00	13.00	15.00	14.00	17.00	14.00	12.00	18.00	15.00
(10)	2.25	2.50	2.37	2.45	2.10	2.25	2.00	2.30	1.90	1.75	3.00	2.30	2.00	2.20	2.00
(11)	3.00	3.25	3.51	2.95	2.70	3.00	3.00	3.25	2.90	2.50	4.00	3.25	3.00	3.60	2.75
(12)	3.75	4.00	4.39	3.90	3.60	3.50	3.75	3.50	3.30	3.00	4.50	4.00	3.50	4.20	3.50
(13)	3.50	6.00	4.36	5.00	4.00	3.50	4.00	4.00	4.00	3.00	5.00	4.00	4.00	5.25	3.75
(14)	2.00	2.00	2.25	1.50	2.00	3.00	2.50	3.60	3.00	4.50	3.50	4.00	2.00	2.50	4.00
(15)	.25	.30	.25	.20	.20	.25	.30	.20	.25	.25	.50	.25	.25	.25	.25
(16)	.25	.30	.15	.18	.18	.20	.30	.24	.25	.25	.50	.25	.25	.25	.25
(17)	80.00	94.00	80.00	90.00	96.40	95.00	110.00	103.00	99.00	105.00	90.00	98.00	111.30	113.00	100.00
(18)	20.00	28.00	28.00	35.00	34.00	30.00	22.00	42.00	40.00	40.00	40.00	37.00	40.00	28.00	28.00
(19)	30.00	38.00	45.00	40.00	37.00	50.00	43.50	46.00	55.00	60.00	60.00	60.00	49.00	57.00	35.00
(20)	20.00	15.00	11.00	12.00	12.00	10.00	10.00	17.00	10.00	20.00	20.00	20.00	27.00	29.00	9.00
(21)	50.00	20.00	14.00	10.00	65.00	45.00	120.00	50.00	110.00	70.00	110.00	78.00	118.00	120.00	50.00
(22)	30.00	20.00	25.00	30.00	20.00	26.00	20.00	33.00	45.00	27.00	40.00	35.00	42.00	50.00	37.00
(23)	.72	.00	.00	.00	.00	.00	.00	.65	.40	.55	.60	.62	.50	.50	.65

Total bids do not include supplemental item.

Contracts Awarded

Liens, Acceptances, Etc.

BUILDING PERMITS

San Francisco County

No.	Owner	Contractor	Amt.
1389	Olsen	Stoneson	8000
1390	Baker	Stoneson	6000
1391	Reed	Bjorkman	2000
1393	Stoneson	Owner	7000
1393	Ireland	Sullivan	5000
1394	Novello	Owner	7000
1395	Standard	Lindgren	1500
1396	National	Owner	1000
1397	Nelson	Owner	3250
1398	Standard	Lindgren	3000
1399	Falliet	Owner	4000
1400	Casty	Owner	4000
1401	Hughson	Barrett	5000
1402	Castle	Owner	6400
1403	Ganiov	Owner	2250
1404	Johnson	Owner	4000
1405	Johnson	Owner	4000
1406	O'Shaughnessy	Glancy	2000
1407	Phelan	Scully	5000
1408	Pickwick	Cahill	8500
1409	S. P.	Owner	8000
1410	Sanfillipo	Owner	3250
1411	S. P.	Owner	12000
1412	Coles	Owner	8000
1413	Johnson	Owner	3500
1414	Ballet	Owner	4000
1415	Bendon	Owner	5000
1416	Hanlon	Hardy	5000

DWELLING

(1398) SE MONTEREY ELVD. and San Alejo; two-story and basement frame dwelling.
Owner—Mr. and Mrs. A. Olsen, 7 College Terrace.
Architect—C. F. Strothoff, 2274 15th Street.
Contractor—E. L. Stoneson, 279 Yerba Buena Ave. \$8000

DWELLING

(1390) S MONTEREY 60 E San Alejo; two-story and basement frame dwelling.
Owner—Mr. and Mrs. A. Baker, 12 College Terrace.
Architect—C. F. Strothoff, 2274 15th Street.
Contractor—E. L. Stoneson, 279 Yerba Buena Ave. \$6000

OFFICE

(1391) E MISSION ST. 164 N Appleton Ave.; 1-story frame office.
Owner—E. E. Reed, 3845 Mission St.
Architect—None.
Contractor—V. Bjorkman, 3845 Mission St. \$2900

DWELLINGS

(1392) S SENECA 284 W Cayuga; 2 1-story and basement frame dwellings.
Owner and Builders—Stoneson Bros. & Thorinsson, 279 Yerba Buena.
Architect—None. each \$3500

DWELLING

(1393) S EL VERANO 128 W St. Elmo; one-story and basement frame dwelling.
Owner—I. C. Ireland, 300 Stanyan St.
Plans by E. L. Boldemann, 1967 Ocean Avenue.
Contractor—T. J. Sullivan, 254 Jules Avenue. \$5000

DWELLINGS

(1394) S RUSSIA 75 W Naples; two 1-story and basement frame dwellings.
Owner—J. Novello, 172 Bertita.
Architect—None. each \$3500

SERVICE BLDG.

(1395) GORE JUNIPERO Serra and 19th Ave.; 1-story frame tire service bldg. and rest room.
Owner—Standard Oil Co. of California, 225 Bush St.
Plans by Eng. Dept. of Owner.
Contractor—Lindgren and Swinerton, Inc., 225 Bush St. \$1500

ALTERATIONS

(1396) 2512 MISSION ST.; alterations to store for mezzanine floor.
Owner—National Dollar Stores, 929 Market Street.
Architect—E. J. Joseph, 74 New Montgomery St. \$1000

DWELLING

(1397) S FLOOD 300 W Detroit; one-story and basement frame dwelling.
Owner—C. L. Nelson, 208 Fairmont St.
Plans by Owner. \$3250

SERVICE STATION

(1398) GORE COR Junipero Serra and 19th Avenue; one-story class C service station.
Owner—Standard Oil Co. of California, 225 Bush St.
Plans by Eng. Dept. of Owner.
Contractor—Lindgren and Swinerton, Inc., 225 Bush St. \$3000

DWELLING

(1399) W 33rd AVE. 225 S Ulloa; one-story and basement frame dwelling.
Owner and Builder—F. B. Falliet, 810 47th Avenue.
Architect—None. \$4000

DWELLING

(1400) W 22nd AVE. 100 N Ulloa St.; one-story and basement frame dwelling.
Owner—J. Casty & Son, 666 Mission Street.
Architect—None. \$4000

GOLF COURSE

(1401) SE 11th and MARKET STS.; miniature golf course.
Owner—G. Hughson, 11th and Market.
Plans by L. Gosliner.
Contractor—Barrett & Hulp, 918 Harrison St. \$5000

DWELLINGS

(1402) W 24th AVE. 25 N Wawona St.; two one-story and basement frame dwellings.
Owner and Builder—Castle Bldg. Co., 330 Market St.
Architect—None. each \$3200

DWELLING

(1403) W BADEN 70 N Monterey; 1-story and basement frame dwelling.
Owner—Mrs. Ganiov, 418 Congo St.
Plans by J. Mettatt, 135 Los Banos Ave. \$2250

DWELLING

(1404) NW HALE and Merrill; one-story and basement frame dwelling.
Owner—T. Johnsen, 136 Westwood Dr.
Architect—None. \$4000

DWELLING

(1405) W 44th AVE. 200 N Judah; 1-story and basement frame dwelling.
Owner—P. P. Johnson, 225 Lincoln Way.
Architect—None. \$4000

ALTERATIONS

(1406) N 25th ST. 130 E Douglass; alterations for foundations, etc.
Owner—Mrs. W. O'Shaughnessy, et al, 4360 25th St.
Architect—None.
Contractor—Clancy Bros., 162 Duncan Street. \$2000

ALTERATIONS

(1407) N WASHINGTON at Laguna; alterations to sun porch.
Owner—M. L. Phelan.
Architect—M. Rist, Phelan Bldg.
Contractor—J. E. Scully, Phelan Bldg. \$5000

FLOOR

(1408) N MISSION ST. 75 E 5th St.; new concrete floor.
Owner—The Pickwick Corp., 75 5th St.
Architect—W. D. Pengh, 333 Montgomery St.
Contractor—Cahill Bros., 206 Sansome Street. \$8500

SHELTER

(1409) FIFTH ST. bet. Berry and King; one-story reinforced concrete shelter.
Owner—Southern Pacific Co., 65 Market Street.
Plans by Eng. Dept. of Owner (J. H. Christie, engineer, 65 Market St.) \$8000

DWELLING

(1410) W BANKS ST. 200 N Jarboe; one-story and basement frame dwelling.
Owner—P. Sanfillipo, 901 Cortland Ave.
Architect—None. \$3250

SHELTER

(1411) FIFTH ST. bet. Berry and King; one-story reinforced concrete shelter.
Owner—Southern Pacific Co., 65 Market Street.
Plans by Eng. Dept. of Owner (J. H. Christie, engineer, 65 Market St.) \$12,000

DWELLINGS

(1412) S VICENTE 82 E 17th Ave.; two 1-story and basement frame dwellings.
Owner—W. P. Coles, 2395 29th Ave.
Plans by Owner. each \$4000

DWELLING

(1413) SW 25th AVE. and Ulloa; 1-story and basement frame dwelling.
Owner—N. E. Johnson, 666 Mission St.
Architect—None. \$3500

DWELLING

(1414) W 33rd AVE. 250 S Ulloa St.; one-story and basement frame dwelling.
Owner and Builder—G. F. Ballet, 810 47th Avenue.
Architect—None. \$4000

CAPITAL CITY TILE COMPANY

J. C. PALEN

Manager

914 Seventh Street

Sacramento - - - California

DWELLING

(1415) N UPLAND 27 E Manor Dr.:
one - story and basement frame
dwelling.
Owner & Builder—G. O. Bendon, 2256
24th Avenue.
Architect—None.
\$5000

DWELLING

(1416) E 30th AVE. 175 N Ulloa St.:
one - story and basement frame
dwelling.
Owner—R. L. Hanlon, 760 14th St.
Architect and Builder—A. M. Hardy,
212 Ritch St.
\$5000

BUILDING CONTRACTS

San Francisco County

No.	Owner	Contractor	Amt.
123	Regents	Sheldon	9066
216	Sabatelli	Amatore	6290
217	McLean	Poraco	950
218	French	Stoneback	1840
219	S F Theatres	Petersen	136680

EQUIPMENT

(123) LIFE SCIENCE BLDG., Uni-
versity of California, Berkeley;
laboratory equipment and furni-
ture.

Owner—The Regents of the University
of California, Berkeley.
Architect—W. P. Stephenson, Dept. of
Grounds and Buildings, Berkeley.
Contractor—E. H. Sheldon & Com-
pany, 666 Mission St., San Fran-
cisco.

Filed Oct. 23, '30. Dated Sept. 29, '30.
On completion 75%
Usual 35 days 25%
TOTAL COST, \$9066.30

Fonds: Labor and Materials, \$4600;
Performance, \$4000. Sureties, Royal
Indemnity Co. Forfeit, \$15 per day.
Limit, 45 days. Plans and Spec. filed.

BUNGALOW

(216) N 26th 75 E Florida 25x100; all
work on 5-room bungalow.
Owner—J. D. and Carina Sabatelli,
2061 Greenwich St.
Architect—None.

Contractor—Frank Amatore, 1392-A
Hampshire St.

Filed Oct. 25, '30. Dated Oct. 14, '30.
Roof on \$1187
Browns coated 1187
Completer 1187
Usual 35 days 1187
TOTAL COST, \$6290

ELECTRIC WORK

(217) N 18th 111-3/4 W Guerrero W
47-11 N 127-10 E 31-10 3/4 S 128-3;
electric work for 2 apartments.
Owner—Isabella McLean, 363 18th St.
Architect—G. A. Berger, 305 Valencia.
Contractor—Con Boracco as Old S. F.
Electric Co.

Roughed in \$950
Usual 35 days 415
TOTAL COST, \$950

Limit, 10 days. Spec. filed.

PAINTING

(218) FIFTH AVE. and Geary St.:
paint all roofs of hospital.

Owner—French Hospital 5th Ave. and
Geary Sts.
Architect—None.

Contractor—A. W. Stoneback, 1431
Eddy St.

Filed Oct. 28, '30. Dated Oct. 15, '30.
Clenched and touched up \$340
First coat paint 500
Second coat paint 500
30 days after 500
TOTAL COST, \$1840

Fond, \$900. Sureties, U. S. Fidelity &
Guaranty Co. Limit, 35 days.

HEATRE

(219) LOTS 8, 9, 10, 11 and 12 Blk
3250 Mt. Davidson Manor; all work
on theatre building except struc-
tural steel, heating and ventila-
ting, electrical work, painting,
lighting fixtures and shades.

Owner—San Francisco Theatres, Inc.
Architects—J. R. Miller and T. L.
Blueger, 580 Market St.
Contractor—H. L. Petersen, 731 Treat
Avenue.

Filed Oct. 29, '30. Dated Oct. 14, '30.
5th of each month, work done
and materials furnished 70%
Usual 35 days 30%
as follows:
Cash \$11,004
Installments 30,000
Note secured by Deed of Trust.

TOTAL COST, \$336,680
Fond, \$136,680. Sureties, American
Bonding Co. Limit, Sept. 1, 1931.
Plans and Spec. filed.

COMPLETION NOTICES

San Francisco County

Recorded Accepted
Oct 23, 1930—W WATERVILLE 75
N Augusta N 25 W 100 S 25 E 25.
James Stinson to John Mowat.

Oct 23, 1930—SW 12th and SE Her-
nice St SE 75 SW 73-2 NW 75 NE
80, California Pacific Title and
Trust Co to whom it may con-
cern. October 22, 1930

Oct 23, 1930—LOT 31 and lots
31 and 32 Blk 571 Sub No 3, Mir-
aloma Park. Meyer Bros to whom
it may concern. October 20, 1930

Oct 23, 1930—E DIAMOND ST 75 N
18th St N 25 x E 125 J E and F
Allen to whom it may concern.
October 23, 1930

Oct 23, 1930—N DE FOREST and
Film Sts NE 55 NE 6 NW 22-3
SW 90 SE 26-3, V A Morgan to
Hogg & Trump. October 20, 1930

Oct 23, 1930—S PACIFIC AVE bet
Presidio Ave and Walnut, 3235 Pa-
cific Ave. F Hinman to whom it
may concern. September 1, 1930

Oct 23, 1930—W WISCONSIN 450 S
22nd S 25 x W 100, John Kirrane
to whom it may concern.
October 22, 1930

Oct 23, 1930—N DEWEY BLVD 16
W Pacheco W 50 x N 100, Fred
K Perry to whom it may concern
October 18, 1930

Oct 22, 1930—SE HYDE and Green-
wich S 63-2 x E 100, Greenwich
Realty Co to D Zelinski & Sons.
October 10, 1930

Oct 28, 1930—S JERROLD AVE 250
W Newhall 25x100, Joe Tonna to
D Delucchi & Son. Oct 27, 1930

Oct 27, 1930—E TAYLOR ST 40 N
Green St N 35 E 68-9 S 25 W 8-9
S 10 W 60, R De Martini to whom
it may concern. October 23, 1930

Oct 27, 1930—ON W COLLING-
WOOD ST S Market St. 40 and 42
Collingwood St. A Adams to W
Horstmeyer. October 27, 1930

Oct 25, 1930—NW NAPLES 300 SW
Persia SW 25 x NW 100, John and
Cesira Antone to whom it may
concern. October 19, 1930

Oct 27, 1930—W MIRAMAR AVE
125-5 N Holloway Ave N 24-7 x
W 112-6, A M Boe to whom it
may concern. October 27, 1930

Oct 27, 1930—N JEFFERSON 65-2
Franceschi to whom it may con-
cern. October 27, 1930

Oct 25, 1930—LOTS 147 AND 148
Blk 22, Map Mission and Thirtieth
Sts. Ida Union, Ida J Blunett to
H H Isaac. Oct. 23, 1930

Oct 25, 1930—SW HOLYOKE ST.
and SE Wayland St. SE 37-6xSW
100, V Garabaldi to whom it may
concern. Oct 25, 1930

Oct 25, 1930—E TWENTY-FIRST
Ave 25 N Lawton St. 25x85, A
Hallgren to whom it may concern
October 25, 1930

Oct 24, 1930—W 24th AVE 275 S
Taravall 25x120, Emma Kaufman
to whom it may concern. Oct 23, 1930

Oct 24, 1930—NE EIGHTH and Na-

toma Sts. Tay-Holbrook, Inc to
A L Thulin. October 21, 1930
Oct 24, 1930—E 12th AVE 150 South
Kirkham S 25 x E 120, L J Mc-
Carthy to whom it may concern.
October 24, 1930
Oct 24, 1930—W 27th AVE 150 S Ri-
vera, D E Macdonald to whom it
may concern.

LIENS FILED

San Francisco County

Recorded	Amount
Oct 24, 1930—E 18th AVE 89-2 S	
Quintara S 30 x E 120, P Cragioli	
vs G J Elkington and G J Elkig- ton Jr, M F Josephine and A H Elkington	\$105

Oct 24, 1930—N SLOAT BLVD 57 E	
46th Ave E 70 x N 152-10, Chris	
Andersen vs C B Eames and O T	
Sweeney	\$89.70

Oct 23, 1930—SW GREENWICH and	
Leavenworth Sts 100 along west	
Leavenworth from Greenwich and	
100 from point of Inter of W Leav- enworth and S Greenwch. F San- tina vs H C Tibbets and Todt & Peters	\$300

Oct 23, 1930—SE MISSION 100 NE	
Russia Ave NE 100 x SE 108-6	
blk 4 Excelsior Hd Assn. Western	
Asbestos Magnesla Co vs John	
Hill, Ambrose B and Viola B	
Frank, Harold Grubbs	\$342.10

Oct 21, 1930—LOTS 11, 12, 13, 14	
and 15 Blk 4, Heyman Tract No.	
2, G Spinozzi vs A Mihalakis and	
Heyman Bros	\$200

Oct 24, 1930—E 14th AVE 150 N	
cente N 37-6 x E 90-907 S 40-397	
W 95-83, P Ceragioli vs G J Elk- ington and G J Elkington, Jr, M	
F Josephine, A H and Julia Elk- ington	\$235

Oct 28, 1930—SE GOLDEN GATE	
Ave and Webster Sts 101 Oehlman	
as Oehlman Electric Works vs	
Frank Mayer, agent	\$506.25

Oct 27, 1930—644 MASONIC AVE.	
James H Sweetman to Dorian	
Abraham	\$108.76

Oct 25, 1930—SE NORTH POINT &	
Broderick Sts. E 87-6xS 37-6,	
Marconi Plastering Co vs T I	
Strand	\$616.40

RELEASE OF LIENS

San Francisco County

Recorded	Amount
Oct 25, 1930—SE EIGHTEENTH &	
Dolores S 30x E 85, Schrader Iron	
Works, Inc to Andrew Olson and	
Louis Danziger	

Oct 23, 1930—W FILLMORE 48 N	
Filthert N 24 x W 100, J Weeks	
to E Evangelisti, Edw and Emma	
Jacopetti	

BUILDING PERMITS

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
1341	Henry	Derry	10000
1342	Coffin	Owner	2600
1343	Anderson	Owner	2500
1344	French	Owner	3000
1345	Libby	Owner	1500
1346	Martin	Owner	3000
1347	Johnson	Owner	6000
1348	Kann	King	1500
1349	C S Post Office	Bishop	7448
1350	Dowling	Owner	3500
1351	Elks	Strehlow	2000
1352	Noble	Alameda	4500
1353	Rodda	Anderson	5250
1354	Tucker	Thorp	4000
1355	Berkeley	Se tt	11276
1356	Hancock	Beckett	1500
1357	McNaughten	Owner	3200
1358	Annis	Owner	2100
1359	Jervis	Owner	2500
1360	Erickson	Owner	1500
1361	Jervis	Owner	2500

1362	Jervis	Owner	2500
1363	Pearse	Vernon	4000
1364	Treyane	Owner	12000
1365	Yukelich	Villa	3500
1366	Cooper	Fleming	2300
1367	Ray	Johnson	4750
1368	Confer	Schultz	3000
1369	Pendleton	Pendleton	8000
1370	Morgenson	Owner	6000
1371	Netherby	Owner	4000
1372	Porter	Independent	1200

RESIDENCE

(1341)	698 ARBOR DRIVE, SAN LEANDRO ; two-story 8-room frame and stucco residence with tile roof		
Owner—	Dr. A. W. Henry, 1326 E 14th St., San Leandro.		
Plans by	E. M. Johnson.		
Contractor—	Derry Bros., 614 E 14th St., San Leandro.	\$10,000	

DWELLING

(1342)	FOOTHILL PLVD. and Oaks Blvd., SAN LEANDRO ; four-room frame and stucco dwelling.		
Owner and Builder—	Mrs. A. F. Coffin, 255 Perry St., Oakland.		
Architect—	None.	\$2600	

DWELLING

(1343)	E 104th AVE. 150 N Bigge-reau, OAKLAND ; one-story five-room dwelling.		
Owner and Builder—	J. W. Anderson, 7401 Sunkist Drive, Oakland.		
Architect—	None.	\$2500	

RESIDENCE

(1344)	NO. 749 CRAGMONT AVE., BERKELEY . One-story 5-room 1-family frame residence.		
Owner—	O. M. French.		
Architect—	None.	\$3000	

ALTERATIONS

(1345)	NO. 2375 WOOLSEY ST., BERKELEY . Alterations.		
Owner—	J. F. Libby.		
Architect—	None.	\$1500	

RESIDENCE

(1346)	NO. 1239 CEDAR ST., BERKELEY . One-story five-room one-family frame residence.		
Owner—	J. Curtis Martin, 1212 Brighton Ave., Albany.		
Architect—	None.	\$3000	

RESIDENCE

(1347)	2360-62 CEDAR ST., BERKELEY ; one-story 10-room 2-family frame residence.		
Owner—	Carl Johnson, 2476 Hilgard Ave., Berkeley.		
Architect—	None.	\$6000	

ALTERATIONS

(1348)	1429 E ROY AVE., BERKELEY ; alterations.		
Owner—	A. A. Kaun.		
Architect—	None.		
Contractor—	Geo. F. King, 1541 Virginia St., Berkeley.	\$1500	

ALTERATIONS

(1349)	SW SIXTEENTH and Willow Sts., OAKLAND . Alterations		
Owner—	U. S. Post Office Department.		
Architect—	None.		
Contractor—	J. B. Bishop, 587 Athol Ave., Oakland.	\$7448	

DWELLING

(1350)	NO. 968 VERSAILLES AVE., ALAMEDA . One-story 5-room frame and stucco dwelling.		
Owner—	S. J. Dowling, 2801 Clay St., Alameda.		
Architect—	None.	\$3500	

ALTERATIONS

(1351)	NO. 2255 SANTA CLARA AVE., ALAMEDA . New brick front on building.		
Owner—	Elks Club, Premises.		
Architect—	R. C. Strehlow Jr., 600 Central Ave., Alameda.		
Contractor—	R. C. Strehlow Jr., 600 Central Ave., Alameda.	\$2090	

DWELLING

(1352)	NO. 1032 FOUNTAIN ST., ALAMEDA . Two-story 6-room frame and stucco dwelling.		
Owner—	G. L. Noble, Vocational Training Class, Alameda High School.		
Architect—	None.		
Contractor—	Alameda High School, Vocational Training Class.	\$4500	

DWELLING

(1353)	NO. 720 ARBOR DRIVE, SAN LEANDRO . One-story six-room frame and stucco dwelling.		
Owner—	Minnie H. Rodda, 1434 St. Charles St., Alameda.		
Plans by	Paul R. Anderson.		
Contractor—	W. H. Anderson, 1014 Davis Ct., Alameda.	\$5250	

GOLF COURSE

(1354)	NO. 2418 SANTA CLARA AVE., ALAMEDA . Indoor pee wee golf course.		
Owner—	Tucker Estate, 2418 Santa Clara Ave., Alameda.		
Architect—	Vernon E. Thorp, 1717 Alameda Ave., Alameda.		
Contractor—	Vernon E. Thorp, 1717 Alameda Ave., Alameda.	\$4000	

WORK SHOP

(1355)	1300 AUSTIN WAY, BERKELEY ; one-story class C work shop.		
Owner—	City of Berkeley.		
Architect—	City Engineer of Berkeley.		
Contractor—	G. A. Scott, 685 23rd St., Oakland.	\$11,276	

REPAIRS

(1356)	3620 SAN PABLO AVENUE, OAKLAND ; fire repairs.		
Owner—	V. A. Hancock 370 Belmont, Oakland.		
Architect—	None.		
Contractor—	Beckett and Wight, 624 Scenic Ave., Piedmont.	\$1500	

DWELLING

(1357)	SE 21st ST. 180 E 22nd Ave., OAKLAND ; one-story five-room dwelling.		
Owner and Builder—	M. E. McNaughton, 2229 E 21st St., Oakland.		
Architect—	None.	\$3200	

RESIDENCE

(1358)	NO. 1074 MASONIC AVE., ALBANY . Six-room residence.		
Owner—	C. H. Annis, 2511 Derby St., Berkeley.		
Architect—	None.	\$3100	

DWELLING

(1359)	NO. 1057 STANNAGE AVE., ALBANY . Five-room dwelling and garage.		
Owner—	Ernest R. Jervis, 1586-A Vista St., Oakland.		
Architect—	L. F. Hyde, 372 Hanover St., Oakland.	\$2500	

DWELLING

(1360)	NO. 810 KEY ROUTE BLVD., ALBANY . Four-room rustic dwelling.		
Owner—	Geo. W. Erickson, 525 Kains Ave., Albany.		
Architect—	None.	\$1500	

DWELLING

(1361)	NO. 1059 STANNAGE AVE., ALBANY . Five-room dwelling and garage.		
Owner—	Ernest R. Jervis, 1586-A Vista St., Oakland.		
Architect—	L. F. Hyde, 372 Hanover St., Oakland.	\$2500	

DWELLING

(1362)	NO. 1055 STANNAGE AVE., ALBANY . Five-room dwelling and garage.		
Owner—	Ernest R. Jervis, 1586-A Vista St., Oakland.		
Architect—	L. F. Hyde, 372 Hanover St., Oakland.	\$2500	

RESIDENCE

(1363)	NO 2330 MCGEE AVE., BER-		
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KELEY . One-story 6-room 1-family frame residence.		
Owner—	J. & L. Pearse, 2419 McGee Ave., Berkeley.	
Architect—	None.	
Contractor—	E. Vernon, 1519 Pacific Ave., Alameda.	\$4000

APARTMENTS

(1364)	NO. 1136 WASHINGTON AVE., ALBANY . Apartments.		
Owner—	R. Treyane, 1062 Stannage Ave., Albany.		
Architect—	None.	\$12,000	

DWELLING

(1365)	NO. 842 EVELYN AVE., ALBANY . Five-room dwelling.		
Owner—	M. Yukelich, Albany.		
Architect—	None.		
Contractor—	J. Vila, 1207 Solano Ave., Albany.	\$3500	

DWELLING

(1366)	N QUIGLEY ST. 200 East 39th Ave., OAKLAND ; one-story three-room dwelling.		
Owner—	E. R. Cooper, 4022 Quigley St., Oakland.		
Architect—	None.		
Contractor—	John Fleming, 4261 Suter St., Oakland.	\$2300	

DWELLING

(1367)	3115 McKILLOP Road, OAKLAND ; one-story 5-room dwelling.		
Owner—	G. Ray, 2042 86th Ave., Oakland.		
Architect—	None.		
Contractor—	O. W. Johnson, 3917 Atlas Ave., Oakland.	\$4750	

RESIDENCE

(1368)	NO. 520 THE ALAMEDA, BERKELEY . One-story 5-room 1-family residence.		
Owner—	F. L. Confer, 2575 Le Conte Ave., Berkeley.		
Architect—	None.		
Contractor—	H. K. Schultz, 84 Mendocina Ave., Berkeley.	\$3000	

RESIDENCE

(1369)	NO. 154 ST. JAMES DRIVE, PIEDMONT . Two-story 8-room frame residence and garage.		
Owner—	Pendleton & Frank, 19 Downey Place, OAKLAND .		
Architect—	F. R. Slocumbe, 62 York Drive, Piedmont.		
Contractor—	H. C. Pendleton, Agua Caliente, Mexico.	\$5000	

DWELLING

(1370)	SW COR. BUENA VISTA and Acacia Aves., OAKLAND ; two-story 6-room dwelling.		
Owner and Builder—	Morgenson Bros., 5664 Broadway, Oakland.		
Architect—	None.	\$6000	

DWELLING

(1371)	W PROCTOR AVE. 120 S Mendoc Ave., OAKLAND ; two-story 6-room dwelling.		
Owner and Builder—	W. A. Netherby, 3853 Lyman Road, Oakland.		
Architect—	None.	\$4000	

SERVICE STATION

(1372)	SW COR. COOLIDGE & Hopkins Sts., OAKLAND ; one-story steel service and one-story steel comfort station.		
Owner—	F. F. Porter, 15th and Franklin Sts., Oakland.		
Architect—	None.		
Contractor—	Independent Iron Works, 1824 Chase St., Oakland.	\$1200	

BUILDING CONTRACTS

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
124	Rodda	Anderson	5250
125	Berkeley	Scott	11276

RESIDENCE

(124) LOT 16 BROADMOOR PARK,
SAN LEANDRO. All work for
six-room residence.
Owner—Minnie H. Rodda, Alameda.
Architect—W. H. Anderson, 1014 Doris
St., Alameda.
Contractor—Walter H. Anderson, Ala-
ameda.

Filed Oct. 25, '30. Dated Oct. 20, '30.
1st floor joists placed.....\$1050
Rough plastered.....1050
Completion filed.....1050
Usual 35 days.....1050
TOTAL COST, \$5250
Bond, \$2600. Surety, G. H. Noble.
Limit, 90 days. Forfeit, \$1 per day.
Plans and specifications filed.

SHOP BLDG.

(125) CORPORATION WAY, Alston
Way and West St., Berkeley.
General construction on class C shop
building.
Owner—City of Berkeley.
Architect—City Engineer of Berkeley.
Contractor—G. A. Scott, 655 23rd St.,
Oakland.
Filed Oct. 27, '30. Dated Oct. 24, '30.
Monthly payments of.....75%
Usual 35 days.....75%
TOTAL COST, \$11,976
Bond: Labor and Materials, \$5583;
Performance, \$2819. Sureties, Globe
Indemnity Co. Limit, 50 days. Plans
and Spec. filed.

COMPLETION NOTICES

Alameda County

Recorded Accepted
Oct 24, 1930—SE line of the land de-
scribed in deed from Stephen A.
Cotter to John A. Casson et al
April 23, 1929 and recorded in book
5083 official records page 403 Ala-
ameda county records, distant
thereon 500 ft SW of Foothill Blvd
Hayward. Carrie S and Thomas B
Russell to C M Russell.....
October 20, 1930
Oct 24, 1930—1236 DWIGHT WAY,
Berkeley. Jennet Marten to C R
Roby.....October 18, 1930
Oct 24, 1930—1459 EXCELSIOR AVE
Oakland. John Fleming to whom
it may concern.....October 24, 1930
Oct 24, 1930—LOT 7 BLK 8, Daley's
Scenic Pk. Berkeley. C G Tweed
to Henry E Tweed.....October 21, 1930
Oct 24, 1930—LOT 12 BLK 7, Daley's
Scenic Pk. Berkeley. C G Tweed
to J W Monroe.....October 21, 1930
Oct 24, 1930—LOT 141 and ptn lot
142 blk 22, amended map of Hav-
enscourt, Oakland. Fred E and
Anna M Swartz aka Anna F Swartz
to J H Pickrel.....October 15, 1930
Oct 24, 1930—1207 FRANCISCO ST,
Berkeley. G Ottino to John Far-
milia.....August 28, 1930
Oct 24, 1930—N LINE COLLEGE
AVE 25-42 ft E of I St. Liver-
more. Geo F Tubbs to Self.....
October 16, 1930
Oct 24, 1930—1333 E 25th St, Oak-
land. John and Kate McDennell
to James D Johnstone.....
October 24, 1930
Oct 23, 1930—405 HAIGHT AVE, ECKE
Alameda. Simon J Gray S Simona
J Gray.....October 21, 1930
Oct 21, 1930—CAMPUS of the Uni-
versity of California, Berkeley.
The Regents of the University of
California to The Berkeley Crafts-
men.....October 20, 1930
Oct 22, 1930—381 INDIAN ROCK
AVE, Berkeley. Elsie S Patrick to
H G Patrick.....October 20, 1930
Oct 22, 1930—661 SAN LUIS ROAD,
Berkeley. Robert E Jones to Jas
V Short.....October 15, 1930
Oct 22, 1930—LOT 1 BLK K, Durant
Manor, Oakland. Jos H and Maude
M Mathorne to whom it may
concern.....October 18, 1930
Oct 25, 1930—LOT 3 BLK A, Clare-
mont Pines Subdivision, Oakland.

F B and Annie Hall Travers to
Beckett & Wight.....Oct. 23, 1930
Oct. 25, 1930—SE ASHBY AVE &
Overland St., Berkeley. Seaside
Oil Co to The Austin Co. of Calif.
.....October 2, 1930
Oct 28, 1930—3718 SANTA RITA AVE
Oakland. E F Pearl to Sigwald
Bro.....October 25, 1930
Oct 27, 1930—SE COUNTRY CLUB
and Lincolnshire Drives, Oakland.
Ethel W Mitchell to J P Brennan
.....October 22, 1930
Oct 27, 1930—PTN LOTS 1, 2 and 9.
Survey No 329 by Huxsey & Fel-
cher, Piedmont. Bert R Jones to
Jensen & Pedersen.....Oct. 24, 1930
Oct 27, 1930—INTER SE EIGHTH
AVE and NE East 2nd St, Oak-
land. Lydia Westlake to B A Rob-
inson.....October 24, 1930
Oct 28, 1930—1341 97th AVE, Oak-
land. George Kristovich to Wal-
lace & Burgett.....October 27, 1930
Oct 28, 1930—1465 CORNELL AVE,
Berkeley. L O Williamson to F
Van Gelder.....October 28, 1930

INCORPORATES

LIENS FILED

Recorded	Amount
Oct 24, 1930—3740-42 GRANT AVE, Oakland. Nobul-Kawabata, Wjyl West Nursery vs L H Thomas and G H Thomas & Schuster.....\$247.81	
Oct 23, 1930—SW LEROY and Vir- ginia Sts, Berkeley. Daggett In- sulating Co vs C A Kuenzle and Edward C Larmer.....\$500	
Oct 23, 1930—SE 47th ST and San Pablo AVE, Emeryville. Geo S Pittcock & Son Ltd vs C E Pugh Solomon Garfinkel.....\$33.75	
Oct 22, 1930—LOTS 29 and 30 BLK 13, map No 6 of Regents Park, Al- bany. Ike Blunt, 1837; James Hen- derson, 111, vs Joe Cathrine and Sam Petro.....	
Oct 25, 1930—LOTS 9 AND 10 BLK K Grand Avenue Heights (by-the- Park), Oakland. Allan Mac- Donald vs Leonard H and Guilbert H Thomas; George A Schuster; Noble and Vujli Kawabata; West Nursery and Wildwood Golf Course Inc.....\$695.40	

RELEASE OF LIENS

Alameda County

Recorded	Amount
Oct 21, 1930—PTN LOT 10 BLK D, Anspacher Tract, Hayward. F W Kay Co to F E, M Bernice and C O Blincoe.....\$213.62	
Oct 21, 1930—PTN LOT 10 BLK D, Anspacher Tract, Hayward. Oak- land Stair Bldg Co to C O, F E and Jane Doe Blincoe.....\$87.10	
Oct 21, 1930—PTN LOT 10 BLK D, Anspacher Tract, Hayward. Black & Gustavson to F E, M Bernice and C O Blincoe.....\$329	

BUILDING CONTRACTS

SAN MATEO COUNTY

ALTERATIONS

MENLO COUNTRY CLUB. All work
for alterations and additions to
one-story frame and shingle help
quarters.
Owner—Menlo Country Club.
Architect—Bakewell & Welhe, 251
Kearny St., San Francisco.
Contractor—Louis N Pollard, 55
Brewster St., Redwood City.
Filed Oct. 21, 30. Dated Oct. 20, '30.
As work progresses.....75%
Usual 35 days.....Balance
TOTAL COST, \$1966
Bond, \$4966. Surety, American Em-
ployers Insurance Co. Limit, Dec. 15,
1930. Forfeit, plans and specifications,
none.

CARPENTRY WORK.

LOT 32 BLK 13, Vista Grand. Car-
pentry work for building.
Owner—Gilbert Houston et al, Prem.
Architect—None.
Contractor—Fred Dixon, 5296 Mission
St., San Francisco.
Filed Oct. 22, '29. Dated July 29, '30.
Roof on.....\$150
Plastering finished.....75
Painting finished.....75
Hardware finished.....100
30 days after.....TOTAL COST, \$500
Bond, none. Limit, 120 working days.
Forfeit, plans and specifications, none

BUNGALOW COURT

LOTS 3 AND 4 BLK 36, Western Ad-
dition, San Mateo. All work for
six 6-room bungalows forming a
bungalow court.
Owner—A. Powers et al, 515 S-Hum-
boldt St., San Mateo.
Architect—None.
Contractor—A. Powers, 515 S-Hum-
boldt St., San Mateo.
Filed Oct. 21, '30. Dated July 18, '30.
TOTAL COST, \$21,500
Bond, none. Limit, 90 working days.
Forfeit, plans and specifications none.

BUILDING PERMITS

SAN MATEO

RESIDENCE, \$4000; Lots 18, 19 Blk 7
25th Ave.; owner and builders,
Castle Bldg. Co., 830 Market St.,
San Francisco; plans by D. E.
Jaeckle, Call Bldg., San Francisco.
RESIDENCE, \$4000; Lot 6 Blk 4, 26th
Avenue; owner and builders,
Castle Bldg. Co., 830 Market St.,
San Francisco; plans by D. E.
Jaeckle, Call Bldg., San Francisco.
RESIDENCE, \$4000; Lots 17, 18 Blk 4
25th Ave.; owner and builders,
Castle Bldg. Co., 830 Market St.,
San Francisco; plans by D. E.
Jaeckle, Call Bldg., San Francisco.
RESIDENCE, \$4000; Lots 6, 7 Blk 6
24th Avenue; owner and builders,
Castle Bldg. Co., 830 Market St.,
San Francisco; plans by D. E.
Jaeckle, Call Bldg., San Francisco.
RESIDENCE, \$4000; Ptn Lots 3 and 4
Blk 7 26th Ave.; owner & builders,
Castle Bldg. Co., 830 Market St.,
San Francisco; plans by D. E.
Jaeckle, Call Bldg., San Francisco.
RESIDENCE, \$4000; Lot 32 Block 7
25th Ave.; owner and builders,
Castle Bldg. Co., 830 Market St.,
San Francisco; plans by D. E.
Jaeckle, Call Bldg., San Francisco.
RESIDENCE, \$4000; Lots 29, 30 Blk 7,
25th Ave.; owner and builders,
Castle Bldg. Co., 830 Market St.,
San Francisco; plans by D. E.
Jaeckle, Call Bldg., San Francisco.
RESIDENCE, \$4000; Lots 2, 3 Blk 5
25th Avenue; owner and builders,
Castle Bldg. Co., 830 Market St.,
San Francisco; plans by D. E.
Jaeckle, Call Bldg., San Francisco.
RESIDENCE, \$4000; Lot 16 Block 2,
26th Avenue; owner and builders,
Castle Bldg. Co., 830 Market St.,
San Francisco; plans by D. E.
Jaeckle, Call Bldg., San Francisco.
RESIDENCE, \$4000; Lot 23, 24 25th
Avenue; owner and builders,
Castle Bldg. Co., 830 Market St.,
San Francisco; plans by D. E.
Jaeckle, Call Bldg., San Francisco.
RESIDENCE, \$4000; Lot 9 Blk 6, 25th
Avenue; owner and builders,
Castle Bldg. Co., 830 Market St.,
San Francisco; plans by D. E.
Jaeckle, Call Bldg., San Francisco.
RESIDENCE, \$4000; Blk 6 Lot 3A Se-
ville St.; owner and builders, Mey-
er Bros., Aragon and Maple, San
Mateo.

BUNGALOW and garage, \$4000; Lot 21 Blk 18, 920 S Eldorado; owner and builder, G. Meister, 11 S Eldorado, San Mateo.

BUNGALOW and garage, \$4000; Lot 10 Blk 9, 1938 Palm Ave.; owner and builder, Domenico Baccelli.

SERVICE station, \$2000; Ptn lots 22, 54 Humboldt and Bayshore; owner and builder, Iver J. Seiger.

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded	Accepted
Oct 22, 1930—LOT 6 BLK 1, Vista Grand. Fred Dixon to E Jensen	October 10, 1930
Oct 20, 1930—LOTS 38 and 39 BLK 7, Huntington Park. George Dag-nall to E R Keiser	Oct 15, 1930
Oct 20, 1930—PART BLK 6, Wood-land Place. Arthur R Heald et al to Self	October 4, 1930
Oct 20, 1930—LOT 57 Studio Tract, San Mateo. Marion R McDonald to whom it may concern	October 11, 1930
Oct 20, 1930—LOT 14 Blk 18, Lyon & Hong Sub, Earlingame. Morris Sorensen to whom it may concern	October 20, 1930
Oct 20, 1930—LOT 48 BLOCK 18 Schwerin Addn. James Watson to Self	

LIENS FILED

SAN MATEO COUNTY

Recorded	Amount
Oct 22, 1930—PART LOT 20, San Mateo Park. Thomas Day & Co vs Thomas A Cavanagh	\$388
Oct 21, 1930—PART LOT 4 BLK 14 Oak Park. San Carlos Feed and Fuel Co vs Clarence W Arseneaux et al	\$400.44
Oct 21, 1930—PART LOT 4 BLK 14 Oak Park. Gray Thormy Lumber Co vs Clarence W Arseneaux	\$1045.41
Oct 20, 1930—LOTS 1, 2 and 3 and part lot 10 blk 11, San Mateo. W T Pierce Const Co vs R M Malone, et al	\$1945.62
Oct 22, 1930—LOTS 14 and 15 Blk 2 Bay View Heights. Wm Herbert vs Martin Peterson et al	\$115
Oct 22, 1930—LOT 23, Belmont. San Carlos Feed & Fuel Co vs Frank O'Brien	\$57.40
Oct 22, 1930—LOT 34 BLK 60, Belmont. John G Smith vs Davenport Realty Co	\$83.50

RELEASE OF LIENS

SAN MATEO COUNTY

Recorded	Amount
Oct 20, 1930—LOTS 43, 44 and 45 Elk 1, San Bruno. Albert O Horn-ing to whom it may concern	
Oct 22, 1930—LOT 11 BLK 54, East-on. Christenson Lumber Co to G W Beden	in full

COMPLETION NOTICES

SANTA CLARA COUNTY

Recorded	Accepted
Oct 23, 1930—LOT 12, Santana Sub, San Jose. Rollie & May Williams to whom it may concern	October 16, 1930
Oct 22, 1930—LOT 5 BLK 4, Chester B. Burton Sub, San Jose. Chester B. Burton to whom it may concern	Oct. 22, 1930
Oct 23, 1930—1.89 ACRE PTD SEC. 12 T & S R 2 W. Santa Clara County. Kathryn Burns to whom it may concern	Oct. 21, 1930
Oct 23, 1930—LOT 19, Lincoln Manor San Jose. Alfred Alves et al to whom it may concern	

Recorded	Amount
Oct. 23, 1930—LOT 5 BLK 33, Seale Add No. 2, Palo Alto. W I and Esther Bailey to whom it may concern	Oct. 15, 1930
Oct. 23, 1930—LOT 16 BLK 62, Seale Tract, Palo Alto. Robert Nell to whom it may concern	Oct. 21, 1930
Oct. 23, 1930—LOTS 4 AND 5 BLK 2, Bartley Tract No. 2, Palo Alto. E H Tucker and A H Excell and Fannie Adams to whom it may concern	October 22, 1930
Oct. 23, 1930—LOT 2 BLK 79, Sherman Park Tract, Palo Alto. John Madsen to whom it may concern	October 20, 1930
Oct. 17, 1930—GLEN UNA TRACT, Bet Saratoga and Los Gatos. Frank L Winn to whom it may concern	Oct. 16, 1930
Oct. 18, 1930—LOT 14 BLK 47, Seale Addn, Palo Alto. Chas A Hansen to whom it may concern	Oct. 17, 1930
Oct. 18, 1930—LOT 17 BLK 7, North Glenn Residence, Willow Glen. George D McCrary to whom it may concern	Oct. 10, 1930

LIENS FILED

SANTA CLARA COUNTY

Recorded	Amount
Oct. 21, 1930—LOTS 13, 14 AND 31 Blk 1 and Lot 43 Blk. Chemekeeta Park, San Jose. Norton-Phelps Lumber Co vs R V Montgomery et al	\$192.02

RELEASE OF LIENS

SANTA CLARA COUNTY

Recorded	Accepted
Oct. 23, 1930—LOTS 36 & 37 BLK 7, Bartley Tract Sub 3, Palo Alto. Granada Tile Co to Martha K Dillon	\$100
Oct. 17, 1930—LOTS 35 AND 37 BLK 7, Bartley Tract Sub 3, Palo Alto. San Carlos Lumber Co to Martha K Dillon	\$484.37
Oct. 17, 1930—LOTS 35 AND 37 BLK 7, Bartley Tract Sub. No. 3, Palo Alto. Sudden Lumber Co to Martha K Dillon	\$264.44
Oct. 18, 1930—LOT 1 BLK 1 R 4, South, San Jose. A G Jahn Co to The Mercury Herald Co	
Oct. 20, 1930—LOT 47 BLK 3, Los Altos Park. Merner Lumber Co to Claude C Taylor	

BUILDING PERMITS

SAN JOSE

RESIDENCE, six-room frame, \$6,900; Second near Taylor; owner, C. B. Addington, 132 Cleveland; contractor, Rollie Williams, 1517 Shasta, San Jose.

RESIDENCE, 5-room frame, \$2750; 19th near William; owner, S. E. Minick, 1230 Sherman, San Jose.

SHELTER, frame animal, \$1000; 145 N Autumn; owner, M. A. Tevis, 146 N Autumn, San Jose.

RESIDENCE, 5-room frame, \$2,500; Chestnut near Newhall; owner, Emma Blais, 1054 Chestnut Street, San Jose.

ALTERATIONS to frame residence, \$1000; 50 S 14th St.; owner, Oliver Haberdier, 50 S 14th St., San Jose.

GYMNASIUM, frame, \$2475; 630 N 5th St.; owner, Japanese Buddhist Society, 634 N 5th St. San Jose; contractor, Roberts Bros., 305 N 7th St., San Jose.

BUILDING PERMITS

PALO ALTO

RESIDENCE and garage, stucco, \$10,000; No. 1802 Fulton St., Palo Alto owner, E. J. Schwalging.

RESIDENCE, stucco, \$6000; 2351 Emerson St.; owner, A. W. Hoy, 1557 Waverley, Palo Alto; contractor, G. H. Kouns.

DWELLING, rustic, \$3000; No. 450 Princeton St., Palo Alto; owner, Encell & Tucker.

BUILDING CONTRACTS

MONTEREY COUNTY

WOODSHED, ETC.

CARMEL VALLEY, Monterey. All work for barn, woodshed, bunk-house and addition to ranch house Owner—Russell P. Hastings, 3525 Pacific Ave., San Francisco. Architect—Bertz, Winter & Maury, 210 Post St., San Francisco.

Contractor—Fred McCrary, 506 Fremont St., Monterey.

Filed Oct. 24, '30. Dated Oct. 24, '30. As work progresses.

Usual 35 days.

TOTAL COST, \$1600

Bond, \$2300. Surety, Columbia Casualty Co. Limit, forfeit, none. Plans and specifications filed.

HOTEL

SAUSAL ST., Salinas City. All work for three-story reinforced concrete store and hotel.

Owner—A. J. Alcantara and E. R. Losada, 34 Buena Vista St., Salinas.

Architect—Guy Koepp and Mervin F. Campbell, McDougall Bldg., Salinas, and Carmel.

Filed Oct. 27, '30. Dated Oct. 27, '30. 1st story concrete poured...\$562.50

All concrete poured...\$562.50

Building completed...\$562.50

Usual 35 days...\$562.50

TOTAL COST, \$23,850.00

Bond, \$12,000. Sureties, C. Tynan and W. H. Hargis. Limit, 90 days. Forfeited, none. Plans and specifications filed.

COMPLETION NOTICES

MONTEREY COUNTY

Recorded	Accepted
Oct. 17, 1930—LOTS 17 AND 18 BLK B, Map of City of Carmel-by-the-Sea. E A H and Dorie E Watson to Hugh W Comstock	Oct. 1, 1930

Member Insurance Brokers' Exchange

FRED H. BOGGS
INSURANCE
490 GEARY STREET

Phone FRanklin 9400

San Francisco

Oct. 18, 1930—LOT 6 BLK 25, Spring's Second Addition, Monterey. Regina K Anderson to W M Anderson.....Oct. 10, 1930
Oct. 21, 1930—LOT 23 BLK 6, Map of Villa Del Monte. C J Lee to whom it may concern.....Oct. 18, 1930
Oct. 25, 1930—LOT 17 BLK 18, Map of Monte Regio. James B Finley to Walter B Snook.....Oct. 23, 1930
Oct. 27, 1930—LOT 11 BLK 4, Johnson's Addition, Monterey. Martha A Broukard to E H Sundberg.....October 23, 1930
Oct. 27, 1930—BLK B-19 Addition No. 7, City of Carmel. Llewellyn B Dutton to James Dowsett and Fred Ruhl.....Sept. 15, 1930
Oct. 27, 1930—LOTS 34 AND 35 BLK 1 Flat of Boulevard Tract being Subdivision of Block 14, Map of Hot Spring Tract. Henry J Gross to whom it may concern.....October 23, 1930

BUILDING CONTRACTS

MARIN COUNTY

ALTERATIONS

SAN RAFAEL. All work for re-modelling lodge building.
Owner—Marin Lodge No. 290, I. O. O. F., 905 D St., San Rafael.
Architect—N. W. Sexton, deYoung Bldg., San Francisco.
Contractor—Siemer & Kendall, 109 Tunsted Ave., San Anselmo.
Filed Oct. 23, '30. Dated Oct. 15, '30.
On 10th of each month.....75%
Usual 35 days.....Final
TOTAL COST, \$6645
Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

DWELLING

SAUSALITO. Excavation, concrete work, carpenter work, plumbing, electric work, etc., for one-story frame dwelling.
Owner—Charles Funnell and wife, Sausalito.
Architect—None.
Contractor—Albert Teather, 405 Cazneau St., Sausalito.
Filed Oct. 22, '30. Dated Oct. 22, '30.
Foundation and framing.....\$1125
Roof on and plastered.....1125
Completion notice filed.....1125
Usual 35 days.....1125
TOTAL COST, \$4500
Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

MARIN COUNTY

Recorded Accepted
Oct. 14, 1930—NEAR MILL VALLEY Anton Gattini to A H Heckman.....October 10, 1930
Oct. 15, 1930—NOVATO. Mary A Boone to whom it may concern.....Sept. 4, 1930
Oct. 15, 1930—FAIRFAX. M Cangelosi to M Linggi.....Oct. 10, 1930
Oct. 16, 1930—CORTE MADERA. Caroline J Remington to J W Fox.....October 14, 1930
Oct. 20, 1930—SAN ANSELMO. Charles Service to whom it may concern.....Oct. 18, 1930

LIENS FILED

MARIN COUNTY

Recorded Amount
Oct. 14, 1930—WOODACRE. Scott Co Inc vs Tint M Burd.....\$403
Oct. 14, 1930—MILL VALLEY. Henry Hess Co vs James E Burke.....\$366.90
Oct. 21, 1930—SAUSALITO. George

Meffley vs Alvina Kistenmacher and Leo Nichols.....\$108.50
Oct. 21, 1930—SAUSALITO. R D Hood vs Alvina Kistenmacher and Leo Nichols.....\$831.65

BUILDING CONTRACTS

CONTRA COSTA COUNTY

UNLOADING, ETC.

BETWEEN BAY POINT AND South abutment of Martinez - Benicia bridge at or near Martinez. All work for unloading, hauling, trenching, laying of pipe and backfilling of trench for cast iron water pipe.
Owner—Southern Pacific Co., 65 Market St., San Francisco.
Architect—None.
Contractor—O. G. Ritchie, 154 North Eleventh St., San Jose.
Filed Oct. 24, '30. Dated Sept. 27, '30.
At close of each month.....90%
Usual 35 days.....10%
TOTAL COST, \$1517
Bond, \$1517. Surety, United States Guarantee Co. Limit, forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded Accepted
Oct. 25, 1930—NEAR MARTINEZ. Southern Pacific Co to Geo Pollock Co (furnishing and operating dump trucks).....October 6, 1930
Oct. 25, 1930—PTN LOT 22, Bella Vista Subdivision. Bernardo Banchlo to whom it may concern.....October 25, 1930
Oct. 25, 1930—LOT 19 BLK 2, Soitos First Addition to Richmond. C R Layton to C R Layton.....

LIENS FILED

CONTRA COSTA COUNTY

Recorded Amount
Oct. 25, 1930—LOT 82 in No. 2 Walnut Lands, Concord. Redwood Manufacturers Co vs V A Peters and Flora Hesseltine.....\$673.88
Oct. 21, 1930—LOT 5, Adams Subdivision. E K Wood Lumber Co vs Robert L Hill.....\$241.39
Oct. 21, 1930—PTN LOT 15 BLK A No. 3 Portion of Parkside Addn and Racetrack Sub, being known as Lot 7, Adams Sub. E K Wood Lumber Co vs Vada A Rose, Ira Rose and Robert L Hill.....\$668.41

BUILDING CONTRACTS

SAN JOAQUIN COUNTY

HEATING PLANT

VICTORY PARK. In San Joaquin Pioneer Historical Museum and Louis Terah Haggin Art Gallery, Stockton. All work for low pressure steam heating and ventilating plant.
Owner—San Joaquin Pioneer & Historical Society, by Geo. E. Catts, President, and L. A. Mills, Secy.
Architect—None.
Contractor—Louis Brandt, 418 E Lafayette St., Stockton.
Filed Oct. 24, '30. Dated Oct. 3, '30.
TOTAL COST, \$4575
Bond, none. Limit, 60 working days. Forfeit, plans and specifications none.

COMPLETION NOTICES

SAN JOAQUIN COUNTY

Recorded Accepted
Oct. 24, 1930—LOT 11 BLK 116 East of Center St. belnfi SW California

and Flora Ste. Stockton. The Texas Co to J A Allen Oct. 18, 1930
Oct. 24, 1930—LOT 8 BLK 5, Pacific Manor, Stockton. George II Sherrick and wife to Fay Zineck.....October 24, 1930
Oct. 23, 1930—No. 405-409 E-MAIN St., Stockton. S H Kress & Co to Weber Showage & Fixture Co.....Oct. 22, 1930

COMPLETION NOTICES

SONOMA COUNTY

Recorded Accepted
Oct. 27, 1930—ON HIGHWAY (Front St.) opposite Analb Bank, Forestville. Martha Armstrong to Alfred Carlson.....October 27, 1930
Oct. 20, 1930—EASEMENT near Michael Conway Property. California Water Service Co to Walter Singleton.....Oct. 13, 1930

RELEASE OF LIENS

SONOMA COUNTY

Recorded Amount
Oct. 24, 1930—LOTS 2, 3, 4, 5, AND 6 Blk C, McBeth, Turner & Welcho Addition, Santa Rosa. Paul J Lindau to Agnes L McCarthy.....\$138

BUILDING PERMITS

STOCKTON

SERVICE station, \$1000; No. 101 W. Harding Way, Stockton; owner, Curtis M. Robbins, 1st National Bank Bldg., Stockton.
REMODEL store building, \$1250; No. 147 N. Wilson Way, Stockton; owner, Bank of Italy; Premises; contractor, Lewis & Green, Bank of Italy Bldg., Stockton

BUILDING PERMITS

SACRAMENTO

RESIDENCE, 6 room, \$6850; No. 1101 Marian St., Sacramento; owner, Land Drive Terrace, 818 J St., Sacramento.
ICE box, \$2000; No. 430 M St., Sacramento; owner, Fong Tin Toon, Premises; contractor, C. P. Edwards, Del Paso Blvd., Sacramento
RESIDENCE, 6 room, \$4650; No. 1150 Marian Way, Sacramento; owner, Land Drive Terrace, 819 J St., Sacramento; contractor, F. P. Williams, 2150 Markham St., Sacramento.
REPAIRS, general, \$8500; 1206 4th St.; owner, K. S. Nikaldo, 428 L St., Sacramento; contractor E. A. Corum, 2665 Donner, Sacramento.
REPAIRS, general, \$2000; 531 P St.; owner, Northern Calif Baptist Convention, 1520 5th St., Sacramento; contractor, W. C. McMaster, 1930 El Monte Ave., Sacramento.
GARAGE, one-room above, \$1200; No. 1017 11th St., Sacramento; owner, Bishop of Catholic Diocese, Sacramento. contractor, M. F. MeFlinzie.
RESIDENCE, 5-room, \$4000; No. 1140 5th St., Sacramento; owner, R. C. Mackey, 1316 5th St., Sacramento; contractor, Frank Richards, Hugginswood, Sacramento.
GENERAL repairs to golf course, \$3000; No. 949 6th St., Sacramento; owner E. L. Kripp, Premises; contractor, J. J. Johnson, 2621 D St., Sacramento.

COMPLETION NOTICES

SACRAMENTO COUNTY

Recorded	Accepted
Oct. 23, 1930—N 100 FT. LOT 3, Tular Tract except W 25 ft., Sacramento. S W and Charlotte A Cross to whom it may concern.....	Oct. 18, 1930
Oct. 21, 1930—LOT 7, College Terrace, Sacramento. George E Hooper to whom it may concern.....	October 20, 1930
Oct. 24, 1930—LOT 9 Elliott & Huston Sub. No. —, Sacramento. Fred and Bessie L Bieser to whom it may concern.....	Oct. 22, 1930
Oct. 22, 1930—THIRTY-THIRD ST., bet. First Ave. and Y St., Sacramento. Roman Catholic Bishop to whom it may concern.....	Oct. 1, 1930
Oct. 25, 1930—W 1/2 LOT 2, N. O. 16th and 17th Sts., Sacramento. John G Berger to whom it may concern.....	October 25, 1930

LIENS FILED

SACRAMENTO COUNTY

Recorded	Amount
Oct. 22, 1930—LOT 21 W 38 ft. Lot 22 and 23 Blk A, Fairmond. Dolan Building Material Co vs Mr. and Mrs. T B Cole, Abe W and Meta L Griffin.....	\$49.87
Oct. 23, 1930—LOT 21 W 38 ft. Lots 22 and 23 Blk A, Fairmond. Dolan Building Material Co vs T B Cole and Abe W Griffin.....	
Oct. 24, 1930—LOT 43, Del Paso View Tract No. 1, Sacramento. R L Hoffman vs Floren and Nellie Dozen and Grace L De Campt.....	\$111
Oct. 21, 1930—LOT 30, Eastmont. R L Hathaway vs Josephine C Dorsa.....	\$2000

BUILDING PERMITS

FRESNO

ALTERATIONS and additions, \$1900; No. 1137 Fulton St., Fresno; owner, Ben Epstein, Premises; contractor, J. T. Cowan, 750 Elizabeth St., Fresno.	
ALTERATIONS and additions, \$8126; Tulare and Q Sts., Fresno; owner, A. T. & S. F. R. R. Co., Prem. OFFICE, \$6500; No. 2524 Mariposa St., Fresno; owner, Central California Conference of 7th Day Adventist.	
DWELLING, \$3000; No. 1324 Harrison Ave., Fresno; owner, Thos. M. Catich, 1314 Harrison Ave., Fresno	
DWELLING, \$3850; 911 Weldon Ave.; owner, Annie Lehman; contractor, Valley Const. Co.	
ALTERATIONS and additions, \$1500; O and Fresno Streets; owner and builder, S. J. L. & P. Corp., premises.	
ALTERATIONS and additions, \$2000; Stanislaus and Broadway; owner, Standard Oil Co., premises.	
ALTERATIONS and additions, \$1600; NE Ventura and Santa Fe Sts., Fresno; owner, Kennedy Co., Prem.; contractor, Valley Lumber Co.; H and Mono Sts., Fresno.	
DWELLING, \$3500; No. 1501 Glenn Ave., Fresno; owner, H. S. Koon, 1245 Broadway, Fresno; contractor, Dunn & Doss.	

COMPLETION NOTICES

FRESNO COUNTY

Recorded	Accepted
Oct. 25, 1930—PARCEL OF LAND	

In or near Blk 32, Colvis, Pearl Hills to D B Coleman.....	Oct. 17, 1930
Oct. 25, 1930—LOT 12 BLK 1, Leona Heights, Fresno. J D Brase to whom it may concern.....	October 24, 1930
Oct. 22, 1930—PANOCHE JUNCTION. Pacific Gas & Electric Co to Wm Radtke.....	Oct. 16, 1930

OFFICIAL PROPOSALS

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received by the Department of Public Works, Division of Highways, at the office of the District Engineer, 502 State Office Building, Sacramento, California, at 2:00 o'clock P. M. on Monday, November 10, 1930, at which time they will be publicly opened and read, for performing work as follows: Sutter County near the County Hospital (III-Sut-3-A), a distance of about three-tenths (0.3) mile, to be graded and paved with Portland cement concrete.

Plans may be seen, and forms of proposal, bonds, contract and specifications may be obtained at the above address.

No bid will be received unless it is made on a proposal form furnished by the District Engineer. Each bid must be accompanied by cash or a certified or cashier's check made payable to the Director of Public Works, for an amount equal to at least ten (10) per cent of the amount bid, such guaranty to be forfeited should the bidder to whom the contract is awarded fail to enter into the contract.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

DEPARTMENT OF PUBLIC WORKS,
DIVISION OF HIGHWAYS.

C. H. PURCELL,
State Highway Engineer.

By C. H. WHITMORE,
District Engineer, Dist. III
Dated: October 23, 1930.

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received at the office of the State Highway Engineer, Public Works Building, Sacramento, California, until 2 o'clock P. M., November 19, 1930, at which time they will be publicly opened and read, for construction in accordance with the specifications therefor, to which special reference is made, of portions of State Highway, as follows:

Butte County, the substructure of a bridge across North Fork of Feather River at Pulga (II-But-21-C), consisting of two reinforced concrete abutments, two reinforced concrete piers, six concrete footings and four erection anchors.

Marin County, between Alto and Waldo (IV-Mrn-1-C), about three (3.0) miles in length, to be graded and surfaced with bituminous macadam.

Santa Barbara County, at Nojoqui Creek (V.S.B-2-D), about three-tenths (0.3) mile in length, to be graded and paved with Portland cement concrete.

Proposal forms will be issued only to those Contractors who have furnished a verified statement of experience and financial condition in accordance with the provisions of Chapter 644, Statutes of 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Bids will not be accepted from a Contractor to whom a proposal form has not been issued by the Department of Public Works.

Plans may be seen, and forms of proposal, bonds contract and specifications may be obtained at the said offices, and they may be seen at the offices of the District Engineers at Los Angeles and San Francisco, and at the office of the District Engineer of the district in which the work is situated. The District Engineers' offices are located at Eureka, Redding, Sacramento, San Francisco, San Luis Obispo, Fresno, Los Angeles, San Bernardino and Bishop.

A representative from the district office will be available to accompany prospective bidders for an inspection of the work herein contemplated, and Contractors are urged to investigate the location, character and quantity of work to be done, with a representative of the Division of Highways. It is requested that arrangements for joint field inspection be made as far in advance as possible. Detailed information concerning the proposed work may be obtained from the district office.

No bid will be received unless it is made on a blank form furnished by the State Highway Engineer. The special attention of prospective bidders is called to the "Proposal Requirements and Conditions" annexed to the blank form of proposal, for full directions as to bidding, etc.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

C. H. PURCELL,
State Highway Engineer.
Dated October 22, 1930.

LIEN FORFEITED BY
FAILURE TO PROSECUTE

A contractor who negligently fails to prosecute a mechanic's lien forfeits his right to payment, says The Constructor.

In *Hendrickson v. Frieland*, 150 Atl. 226, a contractor filed a mechanic's lien in 1926. It was agreed at the trial that his attorney should prepare the case for trial before a jury. He neglected to open prosecution of the claim until one year later and explained the delay by stating that he was obtaining facts upon which to base the suit. The court held the contractor not entitled to prosecute the lien, saying:

"Until prosecuted to judgment, the lien is arbitrary, and, in view of this extraordinary feature, and of the disadvantage under which the owner naturally labors in defending against a stale, unjust claim, founded upon a contract to the terms of which he is usually an entire stranger, the one-year limitation should be strictly enforced, unless the claimant (contractor) is able to set up a most excellent demonstration that it was not only not because of any fault of his, but in spite of the exercise of at least ordinary diligence on his part, that he failed in that time to reduce his lien to the litigated lien embodied in a judgment."

BUILDING *and* ENGINEERING NEWS

Publication Office
647 Mission Street

SAN FRANCISCO, CALIF., NOVEMBER 8, 1930

Published Every Saturday
Thirtieth Year No. 45



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Issued Every Saturday

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Building and Engineering News will be sent to subscribers until ordered stopped and all orders to discontinue must be sent in writing to this office.

CONSTRUCTION COSTS DOWN TO ROCK BOTTOM

That the effect of the premature seasonal decline in construction operations and the policy of caution and conservatism being followed by business in general has already been fully discounted to bring the cost of construction in the United States down to rock bottom, as claimed last month by the Associated General Contractors of America, is borne out by its statistical analysis for the month of September, which has just been completed.

In its analysis for August, which showed a decline in construction costs for the fifth consecutive month, bringing the cost index number down to a two-year low level of 198.4, the association declared that no further decline could be expected and that the low level of the general readjustment period had been reached. This was borne out in the September analysis which showed that despite a further falling off in construction activity, the cost of construction remained stationary.

"Although there appears to be little expectation of a real revival in construction before spring," according to Edward J. Harding, managing director of the Associated General Contractors, "reports indicate that there will be a fairly active construction program for fall and early winter, much of which undoubtedly will be induced by the present low costs. It seems certain that the next movement on the cost chart will be upward and that it will come with the spring revival, if not before."

Mr. Harding points out that the cost chart, which is a composite of wage and material costs, is now at a level lower than the monthly average for any year since 1926 and that the average of prices for basic construction materials is lower than the monthly average for any year since 1917.

Further studies of the association, based on reports of the F. W. Dodge Corporation, indicate that although contemplated construction projects reported for the first nine months of 1930 were \$335,000,000, or five per cent above those for the same period of last year, any hope that this year's total construction will even approximate that of last year must be abandoned. These studies show that total contract awards for the first nine months were 20 per cent below those for the same period of 1929, despite an increase of 14½% in public works and utilities awards. Awards of residential contracts showed the greatest decline, 43%, while the total of building awards, exclusive of public works and utilities, was 30% off.

Portugal has passed a law prohibiting the employment of any more foreigners.

SAN FRANCISCO BUILDING PERMITS IN OCTOBER REGISTER \$2,292,210

Building construction undertaken in San Francisco during the month of October involved an expenditure of \$2,292,210, according to figures compiled by the Bureau of Building Inspection of the Department of Public Works. During the month 642 permits were issued.

The October figures include the one million dollar annex to the Mills Building and a theatre to be erected in Ocean Avenue at a cost of \$190,000. Both of these buildings are of Class A construction.

During the past ten months, records of the Building Bureau show, 5,655 permits were granted for improvements aggregating an expenditure of \$19,120,934 as compared with 6,095 permits for the corresponding period in 1929 when the operations totaled \$29,576,535.

Following October, 1929, the total registered 633 permits for improvements, costing \$2,444,543.

Following is a summary of the totals for the month of October, 1930:			
Class	No. of Permits	Est. cost	
A	2	\$1,190,000	
C	21	144,775	
Frames	156	670,537	
Alterations	460	265,328	
Government Work	3	21,570	
Total	642	\$2,292,210	

Builder Not Liable For Non-Performance

While it is well established that ordinarily a contractor is liable in damages for failure to fulfill the terms of a building contract, conversely it is true that the owner cannot compel performance where the evidence shows that the contractor was ready and willing to perform his obligations and it was impossible for him to do so, says The Constructor.

In Young v. Barelli, 125 So. 258, a building contract provided:

"Close up present drain from refrigerator to sewer at the proper place and provide new drain from ice box to outside of building at surface of ground."

When the contractor was ready to perform this part of the contract, he was unable to do so because the sewer was not completed. Therefore, the court held the contractor not liable in damages for his failure to complete the contract, and said:

"The specifications provide for the connection of the refrigerator drain with the waste line through the sewer. The evidence shows that at the time the main line was installed, the sewer, though in the ground, was not in use, due to some litigation in which the town was involved. In this situation, the contractor and the owner decided to run the drain pipe to the cesspool, which was done. We do not see any good reason to hold the contractor liable for not doing something it was not possible from him to do."

MUNICIPAL CONTRACT OF SALE HELD VALID

The courts have always shown inclination to uphold the validity of contracts involving municipal improvements. Therefore, unless the laws of the state prohibit contracts relating to municipal improvements, the courts will hold such agreements enforceable, says The Constructor.

In Johnston v. City, 226 N. W. 164, a state law provided that before any municipality shall enter into a contract for a public improvement to cost five thousand dollars or more, the council shall advertise the proposed contract in at least one newspaper for not less than ten days before the meeting to approve the contract.

A council entered into a written contract with a contractor for installation of a public improvement for \$36,000. The ordinance provided that the money for payment for the improvement should be obtained from the net income derived from operation of the plant and that the obligation of \$36,000 should in no sense be a debt of the city.

Certain taxpayers filed legal proceedings to prohibit the council from fulfilling the obligations of the contract contending that both the ordinance and contract were void because the state law had not been complied with. However, the court held the ordinance and the improvement contract valid, saying:

"The authority of municipalities in the conduct and management of their proprietary business and to make contracts in pursuance thereof has been given a liberal construction. . . . The purchase and installation is shown by the evidence to be reasonably necessary to the maintenance."

MUNICIPAL WATER SYSTEM NETS \$273,835 PROFIT

Net profits of the San Francisco Water Department for September amounted to \$273,835 after paying all expenses, including bond interest.

This was revealed by a report to the Board of Public Works submitted by Nelson A. Eckart, manager of the Water Department.

This September profit, as well as the actual profit of every month since last March, when the system was acquired by the city, has exceeded the estimates the engineers made prior to the system's acquisition.

The sum of \$273,835 represents an increase over the previous month's profits of \$21,799. It is made up of increased water sales amounting to \$17,118 and a decrease of \$4280 in operating expenses.

Deducting a capital expenditure of \$79,563 for new construction, and \$3,333 for redemption of bonds, the department showed net earnings of \$110,939 available for transfer to the treasury to meet general city expenses or for possible reduction in water rates.

EDUCATING THE INDUSTRY IN SCIENCE OF QUANTITY SURVEY

(By H. R. Bigelow, Director Chicago Technical College)

In the United States the field for quantity surveys is large. It offers unlimited possibilities to the trained man. The task of training men to handle this work intelligently lies with the organization itself. The American Institute of Quantity Surveyors co-operating with educational institutions who are aware to the requirements and possibilities in this work, should shortly be in a position to outline the training of the men who will be making these surveys in the future.

With the billions of dollars invested in the Building Industry and individual construction work running into hundreds of thousands of dollars, it is natural that men must be trained intelligently to handle this work. Where a small mistake may make a difference in the profit on a job—or perhaps mean a loss to the contractor; where incorrect reading of plans may result in the faulty purchase and assembly of materials; where it costs thousands of dollars to correct mistakes made by untrained men, it is natural that the industry is becoming conscious of the need of the scientific preparation and efficient handling of estimates.

Training is Essential

It is no longer possible to get by in this field with slipshod, guesswork methods. You cannot place an estimate on a barrelhead (or saying goes), and expect accurate results. Time was, when an estimate was practically a wild guess. A man would spend days of calculating, write figures all over a dozen sheets of paper without regard to order, draw a large circle around the final result and let it go at that. His only outline for this work was in his mind and he had no way of checking back over his figures. It was absolutely impossible to trace an error.

Today, a man cannot continue to hold his place in this field unless he abides by a systematic, orderly plan. There is a definite order of things and it has come about with scientific training. As a further step, the industry is coming to understand that more efficiency can be realized thru developing as careers in themselves, the separate branches of each profession.

How can we best train the coming generation so it can handle such specialized branches as quantity surveying? Surely not through the long and tedious "trial and error" system. Practical experience is invaluable, but which one of you men would want your sons to go through the same long process of development that you have gone through when the same goal might be reached in far fewer years and with much less effort? You have blazed the trail. You are leading the way in this industry and will have the pleasure of knowing that you have made it easier for those who are to come.

Quite possibly this audience is made up of men who started their careers in widely divergent lines. I imagine that the organization is made up primarily of construction engineers. I judge then, that many may have started as building laborers, or at a trade. They, most likely, learned to read plans, to estimate, went into contracting for themselves, saw the possibilities in quantity surveys and here they are.

Others may have started as estimators, others as architects, or as civil or structural engineers. Yet, here we all are after years and years

of hard work. We want to pass on to others what has already been learned so they will be saved the toll and hardships we have experienced. In other words, we have become educators, because the sole aim of the educator is to give to the student what has already been proved to be of value so it can be applied to present day problems without each individual going through the same process of research and development.

Qualities for Success

The kind of men who get farthest along today, are those who have education and culture. The powerful will and a sense of mastery alone, cannot place a man at the head of an industry. Our industry pays a liberal premium to the men with open minds who recognize that growth means change. He who attains a high place in the industry is accustomed to allow himself a free play of ideas, has a respect for facts, and is trained in research. Thus do we try to outline for the individual of the coming generation the fact that he must be trained to think intelligently about the problems confronting him.

Obviously, the way to start training men who can handle work of this kind is to go to the very bottom and work up. To handle a quantity survey intelligently we believe a man must understand thoroughly building construction, plans, interpretation of specifications, properties of materials, use of intelligent English, etc.

Being interested primarily in instruction and training, it is natural that I should base my remarks on this subject, from that angle. The institution I represent has devoted many years to developing courses of training in the building construction field and it is most likely because I represent Chicago Technical College that I have been asked to address you today. Naturally, my remarks come to you from the viewpoint of an educator.

The Dignity of the Profession

Quantity survey work is not a trade. It is a profession, or if you please, a science, requiring men of high calibre. It requires men on a par with college graduates, who have worked for a degree in Building Construction Engineering. The years of practical experience which you, as quantity surveyors, have put in, cannot be equaled with a mere smattering of knowledge. The requirements for admission into this organization prove that members must be able to handle the work intelligently.

There is a dignity about your profession that has been attained because the men doing this work have realized its importance and we must all strive to maintain the high standard of this calling through an earnest and honest effort to educate those who will follow in our footsteps. The Accountant, the Doctor, the Lawyer, the Banker, all have definite prerequisites to specialize in work like quantity surveys the foundation that will enable them to finish before they can honestly practice their professions. It is our earnest desire to give to all who place this profession on an equally scientific basis.

We, as an educational institution, are interested primarily in training today, either trains its own men or for its trained men. The NIRA can help in training men for quantity survey work, but the bulk of the burden

must be carried by outside sources. That is one reason for the courses now offered in Construction Engineering.

A Plan of Education

There are two institutions in the United States today who can offer training in building work sufficient for men to handle quantity surveys. One is Chicago Technical College. Realizing the need for trained men, these two schools have developed courses whereby men can be trained in the fine points of building construction work until they are capable of handling highly specialized work.

Practical men who have struggled to get the training they have, are not always in sympathy with what they call "theory" and "booklearning". Yet statistics prove over and over again that the educated men as a group, far better off than their uneducated brothers. Take the average man and give him an education. Immediately he is above the average uneducated man. The isolated case often cited, of the genius who was not educated in the schools and colleges, and yet is successful, does not in any way prove that education is not valuable.

Thus we are sure that the future for quantity surveyors lies in the foundation they can get through a course of training. They not only receive the technical training for their work, but they also learn how to conduct themselves, meet people, make contacts, maintain poise and develop a professional bearing that will elevate the entire profession.

"All this from a College education?" you ask. Yes, all this and more! The cultural development, self-confidence and business ability developed through college training will be of almost innumerable value in selling the idea of quantity survey to the entire construction industry.

Theory and Practice

The question of "theory" and "practice" has long been a bone of contention between educators and those who believe that one can only learn thru practice. A combination of the two is ideal. We claim, however, that the theory must come foremost if a man wishes to advance very far in his profession. Every year we have this demonstrated in our classrooms. Men engaged in the various trades come to us for training. They seem to have gotten in a rut and cannot get out of their particular grooves because they do not have the theory. They know what to do under certain conditions but they do not know why. And they never will advance until they learn what theory teaches them—the scientific reason why they do certain things. Let me illustrate.

A plumber has been enrolled for a course in Plan Reading. He is skeptical about our ability to teach him anything about his trade, but wanted to read plans. In going over a plumbing lay-out his instructor asked him what would customarily be installed at a certain point. Without hesitation he said, "a trap." "Why?" asked his instructor. Well, he didn't know why, but he learned his trade from his father and his father had learned it from his grandfather, and they had always put traps there so it must be right.

It is just such thinking, that the training offered today to our younger generation is eliminating. It makes the difference between scientific thinking and mechanical effort. It makes clear to the worker that even if he is digging a ditch there is a reason for it. It takes him out of the class of the

ditch digger who, after much questioning, decided that he "digs the ditch, to get the money, to buy the food, to make the strength, to dig the ditch." Educational Institutions and Quantity Surveyors

Now then, what can the educational institutions do for quantity surveyors? They can lay a foundation in Building Construction Engineering. They can give instruction in quantity surveying, emphasizing every detail necessary for intelligent work in this field.

Building construction today requires a knowledge of engineering. Scientific training in this line will include instruction in parts of the Structural Engineering and Architectural Engineering professions. The student must understand the Architect's and Engineer's language and point of view. In our opinion he should also have training in building finance, management, costs and professional relations, as well as a thorough foundation in analysis, details, assembly of materials, construction methods, plan reading, estimating, superintendence and contracting.

With this background, he can readily step into quantity survey work and handle it creditably. He has been educated to the importance of this work. He has been taught the importance of forms. He has learned to arrange his material in its logical sequence and to systematize his work and himself. From the very day he commences work in this course of training he learns that slipshod methods will not be tolerated. He becomes methodical, taking things in their logical order until it becomes second nature to him.

Every subject covered in a course like this instills in his mind the importance of orderliness. With his mind functioning in an orderly and logical manner he is ready to handle the responsible tasks which will be set before him. In other words, he is equipped to handle quantity surveys, in the way that you, as pioneers in this field would like to have them handled by your successors.

Quite likely, the students of today will be coming into this field in large numbers. With the building industry becoming conscious of the advantages of quantity surveys, the demand for experienced men will increase.

Therefore, our aim as the leaders in this branch of industry must be to set the example to those who are to follow us. We must leave sound precepts, and a logical, orderly plan of development for all.

"First the blade, then the ear, then the full grain in the ear."

HARDWOOD EXPORTS TO FRANCE IMPROVING

French imports of American oak, red gum and sap gum have been heavier while the general hardwood trade at Havre has remained normal, with stocks and prices unchanged, states Consul E. C. Kemp at Havre and Commercial Attache Donald J. Reagan at Paris, to the Lumber Division of the Department of Commerce. Recent arrivals at Havre of 107,000 square feet of American oak flooring are equal to approximately one-third of the total American exports of hardwood flooring to France during 1929.

The market for softwoods has been disturbed by constant offerings at depressed prices, as North European shippers are eager to dispose of balances before the seasonal closing of the ports. The demand for building lumber, mostly European, is declining after a fairly active season and stocks for the winter season are nearing completion.

CLARK, FORMER SAN FRANCISCAN, HEADS CAMPBELL WINDOW CO.

Milton T. Clark, former vice-president of the Truscon Steel Company, has been elected president of the recently organized Campbell Industrial Window Co., Inc., with headquarters in the Pershing Square Building, New York City.

Mr. Clark started in the general contracting business in San Francisco and later was appointed chief of the Municipal Bureau of Architecture, which position he resigned to become associated with the Truscon Steel Co.

The Campbell Industrial Window Company will specialize in the field of industrial windows and doors for every type of installation and service requirement. Its line of products includes casement windows, horizontally pivoted industrial windows and projected windows of the commercial, architectural and office types, utility windows and continuous windows and doors. These windows have ventilators which are protected by a weather stripping which shuts out the wind, rain and snow, and excludes dust, dirt, smoke and soot and reduces the cost of heating a building. This feature is practically the only improvement made in this class of window in the last 20 years, and eliminates the only objection to this type of sash, the manufacturers declare.

The ability of the organization to handle a large volume of business on a big scale is further demonstrated in that doors of every type are manufactured—standard doors and frames, industrial doors, pier and wheel doors, fire department doors and airplane hangar doors.

The company handles a complete line of window hardware and mechanical operating devices. It is also prepared to furnish a high grade of cast iron products, such as basement windows, coal chutes, chimney and ash dumps for fireplaces, irregular dampers and ventilators for foundation and attic walls.

In addition to Clark, other members of the Board of Directors of the Campbell Industrial Window Company are: Martin J. Belin, Jr., Director, Vice-president and General Manager of Sales, American Radiator Co.; H. E. Campbell, Director and Vice-president, Campbell Metal Window Co.; Donald M. Forgan, Vice-president and Treasurer, American Radiator Co.; R. J. Hamilton, President, American Radiator Co., Secretary and Treasurer, American Radiator & Standard Supply Corp.; Abston Sargent, President and Director, Campbell Metal Window Co.; Jack Williams, President, Campbell Casement Window Co.

STATE INSPECTORS TO SCOUR CITY FOR UNLICENSED BUILDERS

A large force of state inspectors, in the employ of the Department of Professional and Vocational Standards, will begin to arrive in San Francisco today in preparation for a city-wide drive on unlicensed contractors and sub-contractors. It is announced by F. E. Fisher, chief inspector for the Section of Contractors' Registration.

Every contractor engaged in the construction industry here who is found to be operating without a State license will be given three days to procure his license. Those who go beyond the stipulated time will be prosecuted in the San Francisco courts, Fisher announced.

The law, which became effective August 14, 1929, and under which more than 29,000 contractors are licensed in California, is now so well known to everyone in the construction industry of the state that there is no excuse for the failure on the part of a contractor to be without a license. Police powers of the law have been resorted to most sparingly in the past, it having been the aim of James F. Collins, Registrar of Contractors, to administer the law thru a campaign of education rather than thru the medium of prosecutions, Fisher said.

The time has come, however, the chief inspector declared, when a policy of rigid enforcement of all the provisions of the law must be followed. This policy, he explained, is taking the form of a concentration of field inspectors in the metropolitan areas of the State for an intensive drive on all unlicensed contractors. San Francisco and the Bay District is the first of these areas selected by the Department.

The city will be divided into districts and an inspector will be assigned to each district. Each inspector will visit every piece of construction work, large or small, now under way in his district and every contractor and sub-contractor on the job will be required to show his license card and evidence that he is compli-

ing with the workmen's compensation and safety laws of the State. Those who are unable to comply with the inspector's demands will be served with a formal notice to apply at the Department's San Francisco office, 849 Phelan Building, for a license within three days. Those who fail will be arrested and prosecuted in local courts, Fisher announced.

PULVERIZED FUEL SAFETY CODE IS REVISED

A revision of the American Standard "Safety Code for the Installation of Pulverized Fuel Systems" is announced by the American Standards Association. The rapid increase in the use of pulverized fuel in many industries, resulting in new developments in methods and design of equipment, is responsible for the revision. The original code was approved by the American Standards Association in 1927.

The code covers the construction of buildings housing fuel pulverizing equipment, the ventilation of these buildings, and specifications for dust collection systems. Specifications are given covering methods of preventing explosions through static, through the drying of coal, and through its transportation through pipes. The code also contains suggestions for safe operating rules to be printed in instruction cards which can be used for guidance of the employees in charge of the operation of such systems.

The standard which is part of a comprehensive project for the prevention of dust explosions, was developed and the revision undertaken under the auspices of the National Fire Protection Association and the United States Department of Agriculture.

Copies of the code are available for five cents each from the American Standards Association, 22 West 17th Street, New York City.

THE OBSERVER

What He Hears and Sees on His Rounds

Exports of Redwood lumber from Eureka in October totaled 1,000,000 feet, according to H. F. McGrath, deputy collector of customs at Eureka.

Seattle, Wash., city council has appointed committee to "study, determine and expedite all public improvements which can be done either by day labor or contract at this time to relieve unemployment in this community."

Carpenters Union No. 771 of Watsonville, has requested the city council to reconsider an award of contract to the A B C Painting Company of San Francisco to paint the municipal auditorium. The contract was awarded on a bid of \$487, the lowest submitted. Other bids ranged from \$525 to \$1623, the highest bidder being a local man.

A giant stride toward the millennium has been recorded in the office of the Secretary of State at Indianapolis. "The One-Trip Plumbers" have registered their trade-mark.

The corporation, with headquarters at Rock Island, Ill., accompanied its registration with photographs of its truck emblazoned with the words: "The One-Trip Plumbers."

Control of the comptroller of the currency over bankrupt national banks was increased by a decision of far-reaching importance handed down in the United States circuit court of appeals at Philadelphia, October 28. The decision revokes the appointment of an equity receiver by the United States District Court of New Jersey for the affairs of the Port Newark National bank of Newark and orders control of the bank returned to the comptroller, whose receiver was ousted to make way for the court receiver.

Plans for a \$185,000 advertising campaign in newspapers of New York's metropolitan area were discussed at a luncheon of the Electrical Association of New York last week. The purpose of the campaign will be to promote better wiring in homes of Greater New York.

The necessary funds have already been voted by the association, and J. A. Corcoran is in charge of the campaign. The advertisements will tell of the advantages of proper wiring in private homes and apartment houses.

Gilbert T. Hodges, president of the Advertising Federation of America, was one of the speakers at the luncheon.

Declaring the railroad companies are employing large numbers of aliens at Sparks, Las Vegas and other Nevada points, at lower wages than are paid to American labor, while hundreds of American railroad workers have recently been laid off, United States Senator Tasker L. Oddie of Nevada has telegraphed to President Hoover asking the unemployment commission to investigate employment conditions in these towns. He urged the commission recommend some system to the railroads under which they will readjust their employment schedule and give preference to the Americans, who, he says, are well trained and qualified.

Issuing 2908 permits, Los Angeles leads Pacific Coast cities in building permit expenditures for the month of October with \$5,309,181. San Francisco issuing 642 permits registered a total of \$2,292,210. Seattle followed next in order with 610 permits for improvements costing \$1,533,340 and Spokane fourth with 182 permits for project involving an expenditure of \$800,000. Portland issued 574 permits for improvements costing \$664,210 and Tacoma 221 permits for work costing \$205,675.

A plan to construct the State Industrial School at St. Anthony, Idaho, using student labor on the job has been protested by the Intermountain Branch of the Associated General Contractors as unfair to the contractors in the state who are paying taxes to support institutions such as the one in question. Mark Tuttle, executive secretary of the Intermountain Branch, has urged the contractors of Idaho to take steps to prevent this encroachment of government into business which deprives the general contractor of his livelihood.

The Intermountain Branch has only recently won a fight in Utah on just such a matter, which was the proposal to have state institution buildings constructed by inmates or convict labor and during the present season five large state buildings have either been contracted for or contracts will be let in the immediate future, Tuttle states. He urges the contractors of Idaho to join together to accomplish the same result in their state.

One hundred and one questions that should be considered before an industrial plant is built have just been compiled for distribution by the Austin Co., architects, engineers and builders of Cleveland. The preliminary demand for this booklet of questions indicates widespread interest among executives in obtaining complete information on locating and building plants before building plans are considered or contracts are awarded.

Typical points raised by Austin Engineers for executives include such questions as: "What factors should govern the location of your plant? How do local building codes affect cost of plant? How many contracts will you let? Will there be a bonus and penalty clause in your contract? Who will make your outlays? What are the relative advantages of various types of buildings — multi-story, single-story? How will you determine heating facilities? Ventilation? Lighting? Are you sure you know your floor load requirements? Do you know how to reduce fatigue among both office and plant employees?" There are scores of other vital questions.

State Highway Commission is making surveys to determine the location of the proposed Mendocino Pass Forest road with outlets to the Pacific and Redwood highways. This construction, to be completed within five years, will aggregate a cost of more than \$1,000,000.

TRADE NOTES

Pope & Talbot Lumber Company, pioneer lumber concern, has been purchased by the Charles R. McCormick Lumber Company.

David White Co., Inc., Milwaukee, Wis., has published a complete 100-page catalog describing transits, levels and other surveying instruments for engineers, contractors and builders.

W. P. Pedigo has been named manager of the Bass-Hueter Paint Company, Fresno branch of the National Lead Company, succeeding W. H. Sawtell who resigned after nine years in the position. Pedigo has been salesman for the company for the past two years.

J. C. Douglas, formerly of San Francisco, has taken over the management of the Sacramento Branch of the L. H. Bennett Company, Ltd., at 1212 K Street, distributors for the General Electric refrigerator. Douglas takes the place of William Rogers who will be transferred to San Francisco.

Lee F. Adams, commercial engineer of the General Electric Company at Schenectady, has been awarded the Manufacturers Medal and Purse for 1930, given under the James H. McGraw Award. This recognition is the result of "outstanding and unselfish service to the manufacturing branch of the electrical industry."

To maintain efficient service standards, R. W. Cramer & Co., distributors of Swiss precision instruments including Sauter Time Switches have moved to 67-69 Irving Place, New York City, where they will occupy the entire eighth floor. Increase area for offices and warehouse in the new location accommodates increased personnel and larger stocks to meet the growing demand for Sauter Time Switches.

Atlas Lime and Chemical Company, formed to mine, manufacture and sell limestone products, has been granted a permit by the State Corporation Department to offer 50,000 shares of \$100 par value stock to the public at par. In addition, the company was authorized to issue five shares of stock to individuals named in the application in payment for services, 11,913 shares in exchange for properties to be taken over, and 48,806 shares to E. W. Harker, president. The company has authorized capitalization of 200,000 shares of \$100 par value common stock.

Cemco Electric Manufacturing Co., recently opened new quarters at 323 Jefferson St., Oakland. The company is engaged in the manufacture of Cemco panel boards, claimed to greatly facilitate and improve electrical installation for industrial, commercial and residential purposes. J. M. Zarwell is general manager and owner of the concern.

David Selick of Los Angeles, an owner, fined \$100 or 20 days in jail, for failing to comply with a notice of the municipal plumbing department to have his plumbing connected to street sewer and to discontinue the use of a cesspool.

ALONG THE LINE

George A. Kneese, for the past 12 years county supervisor of San Mateo County, was defeated at the Nov. 4 election by Jas. S. James, former city engineer of Burlingame.

W. H. Talbot, 12, lumber magnate, died at his home in San Mateo last Wednesday. Talbot's lumber interests extended from San Francisco to Seattle, San Diego, Los Angeles and other cities. The Pope and Talbot Lumber Company, of which he was president, was sold a few days ago to the Charles L. McCormick Lumber Company.

Yoho & Dauger, general contractors, 3119 Fourth Ave., Sacramento, have been admitted to membership in the San Francisco Builders' Exchange.

Tracy R. Bousman has been appointed city engineer of South Gate, Calif., succeeding Edward M. Lynch.

L. H. Nishkian, San Francisco structural engineer, has developed jointly with D. B. Steinman of New York City a graphic method for the design of a continuous beam and frame.

J. S. Thomas and A. Welch have filed a notice of co-partnership with the San Francisco county clerk and will operate under the firm name of Pacific Engineering Company.

PLANS ARE ANNOUNCED FOR OIL BURNER SHOW

Preliminary plans for the eighth annual convention and oil burner show of The American Oil Burner Association in Philadelphia April 13 to 18 have been announced.

Convention headquarters will be in the Benjamin Franklin Hotel and all meetings will be held there. The annual oil burner show will be held across the street on the exhibit floor of the Gimbel Building. Space will soon go on sale to members and 129 booths each 10 feet by 10 feet will be available for exhibit purposes.

The show will open Monday, April 13, at 7 P. M. and thereafter until Saturday, April 18, it will be open daily from 1:30 P. M. to 11 P. M. Exhibitors, as usual, are restricted to manufacturer or associate members of the association. The annual show has become the occasion for introducing new burner models and equipment improvements and information reaching the Association headquarters indicates that many new and interesting developments will be revealed at the Philadelphia exposition. It will be the second consecutive show which will be open to the general public, this plan having been followed last year with outstanding success. More than 10,000 people were registered as visitors at the 1930 show in Chicago.

Business meetings and discussions of Association members will be held during the morning at the hotel to allow for attendance at the show in the afternoon and evening.

BRIDGE FIRMS MERGE

Consolidation of the Massillon Bridge & Structural Company of Massillon, and the Fort Pitt Bridge Company of Pittsburgh under the name of the Fort Pitt Bridge Works Company with assets aggregating \$4,000,000 is announced at Massillon, Ohio.

HERE — THERE — EVERYWHERE

Then, J. Sherwood of Los Angeles, an owner, having a toilet, bath and cesspool installed, without a permit was fined \$20 or two days in jail.

Stockton has been chosen as the 1931 convention city of the American Water Works Association to be held the latter part of October.

Merchants Plumbers Association of Bakersfield, is studying the best available plumbing codes of other communities in an effort to secure the passage of an ordinance embodying the best plumbing practice.

L. G. Scherer was installed as president of the Architects' League of Hollywood at a meeting of the League, October 22. Verner McClurg was installed at vice-president; J. A. Murrey secretary-treasurer, and Ralph Flewelling, M. L. Barker, James T. Handley, Donald Shugart and John Roth directors.

Chas. C. Hughes, city superintendent of schools at Sacramento, has submitted a report to the Board of Education, estimating that a bond issue of \$1,750,000 will be required to finance the erection of new schools and additions to the standing school buildings in the capital city.

Thomas Haverty Company, plumbing and heating contractors and general engineering contractors of Los Angeles, announce that their office and plant will be closed every Saturday in the future. The five-day week will also apply to contracting operations. This rule will continue, at least through the slack construction period, if it does not become permanent.

Establishment of the two-day week for nine unions of Waterloo, Iowa, affiliated with the Waterloo Building & Trades Assembly, is announced. The wage scale, it is said, will remain the same, the members taking four hours less pay each week, since the present week consists of five and one-half days.

Building Material Dealers' Association of Seattle, has elected Walter Galbraith president; Harry Abel, vice president; Charles Watts Secretary and Sam Hunter treasurer. Mr. Galbraith succeeded D. E. Fryer as president of the association.

Thirty-five members of the association were present and discussed problems confronting the building material industry. Those who spoke did not stress the scarcity of business as much as the fact that business was being handled with no adequate profit.

September shipments of steel-furniture stock goods, as reported to the U. S. Bureau of the Census by 34 manufacturers in the "business group," totaled \$1,879,151 as compared with \$1,935,473 in August, \$2,313,984 in September, 1929, \$2,754,135 in September, 1928, and \$2,218,502 in September, 1927. September shipments of shelving, compiled from reports of 16 companies, totaled \$496,253 as compared with \$554,041 in August, \$812,635 in September, 1929, \$678,422 in September, 1928, and \$531,154 in September, 1927.

ENGINEERING SOCIETIES EMPLOYMENT SERVICE

Further information regarding positions listed in this column is obtainable from Newton D. Cook, Room 715, 57 Post Street, San Francisco. (Phone Sutter 1684).

R-3335-S ENGINEER, preferably mechanical, 28-35 years old, for cost analysis and time study work. Experience should include both shop and outside construction estimating and preferably some time study work. Salary about \$200 month to start. Apply by letter. Location, Bay Region.

K-321-W-1875-C-S UNDERGROUND SURVEYORS, two, single. Must have had two years' experience. Salary \$150 a month and expenses. Apply only by letter. Location, Durango, Mexico.

R-3349-S SALESMAN, young man with car, for promotion work for dealers. Must have experience selling roofing to owners. Salary and expenses. Location, Northern California.

R-3374-S JUNIOR ENGINEER, technical graduate or equivalent, with 3 to 6 years' architectural or engineering experience. Opportunity to learn a branch of building contracting business. Must be able to handle men. Salary open. Location, Los Angeles, Hdqtrs., San Francisco.

R-3309-S ENGINEER, mechanical or electrical, not over 30 years, with 3 to 5 years' experience on hydro-electric plant operation for service and testing work. Must have mechanical skill, agreeable personality and be willing to travel. Salary about \$175 month and expenses in the field. Apply by letter. Headquarters, San Francisco.

R-3353-S CONSTRUCTION SUPERINTENDENT, preferably with experience in Latin America and capable of taking charge of hydro-electric construction project involving tunnels, dams, penstocks, power house, etc. Apply by letter with references and photo. Location, Colombia, South America. Headquarters, San Francisco.

CONTRACTOR MUST PROTECT PEDESTRIANS

No person is entitled to damages who carelessly contributes to an injury. Yet various courts have held that although a person knows of a dangerous condition of a street, it does not necessarily mean that he is guilty of negligence which would prevent recovery if he should attempt to cross the dangerous place.

In Highway Const. Co. v. Sorna, 171 N. E. 340, a pedestrian was injured when she stepped and fell into an excavation in the street. She sued the contractor for damages. The contractor argued that the woman was not entitled to a judgment because she negligently attempted to cross the street near the excavation. Since it was shown that the woman exercised due care to prevent the injury the court held the contractor liable, stating important law as follows:

"Negligence cannot be imputed to one who uses such carefulness as a man of ordinary prudence would exercise, but where there is danger, and the peril is known, whoever encounters it, voluntarily and unnecessarily, cannot be regarded as exercising ordinary prudence, and therefore does so at his own risk."

\$2,000,000 CRACKING PLANT FOR PITTSBURG

E. I. Badger and Sons Company of Boston, Mass., at approximately \$2,000,000 have been awarded a contract by the Associated Oil Company to construct a cracking plant at the Avon Refinery in Contra Costa County near Martinez. The plant is to be of the tube and bank type and will be the world's largest.

The construction of this unit is a part of Associated's proposed expansion program to take care of the increased demand for its products. The plant will be a complete unit, consisting of cracking furnaces and bubble towers, treating plant, re-run stills and power plant, embodying the latest developments in the cracking industry. The unit will convert more than 10,000 barrels daily of heavy fuel oil into gasoline and other products.

The cracking of fuel oil by this process yields the maximum quantity of marketable products from crude oil, it is stated.

Illinois Contractors Opposed To Low Wages

The Illinois Association of Highway and Municipal Contractors, a chapter of the Associated General Contractors of America, following a meeting in Chicago, took steps looking toward the remedying of low rates of pay for laborers which it feels are highly detrimental to the construction field in the state of Illinois, says The Constructor.

The association, in a resolution presented to Governor Emmet Bennett of Illinois, pointed out that through unregulated conditions in competition for contracts on highway construction, economic conditions have developed in the state which forces men to work on road building for as little as 17½ cents per hour for days ranging from fourteen to sixteen hours. The contractors state that they are unwilling to enter into further competition for contracts which can only result in further economic depression with still lower wages and declining standards of living for the workmen.

The contractors charge that through the policies of the Illinois Division of Highways, they are forced into competition with contractors who are not taxpayers, who have no community obligation and who transport non-resident or itinerant labor into communities already distressed by unemployment. Further, they state, the true facts concerning the conditions under which Illinois highways are being constructed at present have not been called to the attention of the public and governmental bodies nor opportunity afforded the leaders of the construction industry for a discussion of these state problems.

The contractors, therefore have urged that steps be taken to adopt construction policies which will eliminate the low pay and long hours on road construction and that the conditions surrounding the award of highway contracts in the state be changed before further economic depression and dissatisfaction among the large number of laborers now unemployed will be aroused.

Tractors have replaced horses in the logging woods of California and are now replacing the heavy steam donkey engines. They were first used in 1923 in this State and in 1929 sixty-two per cent of all timber logged in the pine regions of California was done by tractors. The U. S. Forest Service approves of their use as they are less liable to cause forest fires and, if rightly handled, will cause less destruction to the remaining trees than will some day form a forest.

ARCHITECT'S LAW VIOLATED; TWO DRAW SUSPENDED SENTENCES

"Thirty-day jail sentences, suspended, were handed down by William Mallagh, justice of the peace, on pleas of guilty by H. J. Hanak and T. J. Tasker, to charges of violation of the state act regulating the practice of architecture," according to the San Luis Obispo Daily Telegram.

"The charges were particularly on section 5, which requires that state licenses be secured on examination before one can do business as an architect.

"A. M. Edelman, secretary of the state board of architect examiners, and S. Bernard Wager of Los Angeles, attorney for the Southern California district for the board, attended the trial but did not participate, the cases being prosecuted by H. J. Dubin, district attorney, and A. V. Muller, assistant."

CONTRACTOR AND OWNER LIABLE FOR NEGLIGENCE

The law is well established that if any damage or injury is effected by a contractor resulting from negligence of an owner, the contractor and the owner are jointly liable, says The Constructor.

In Kaufman v. Tomich, 280 Pac. 130, a municipality and a contractor made a contract by the terms of which the former agreed to pay the contractor for public construction work performed according to plans prepared by the city's engineering department.

A dwelling adjoining the construction work under direction of a city engineer was damaged by a shifting of the soil upon which the retaining wall and the foundation of the house rested, and the property owner filed suit against the municipality and the contractor.

The counsel for the former attempted to avoid liability on the contention that a city is not liable for the negligent acts of its engineers and that a contractor is not liable for damages effected while performing work. The higher court held both the municipality and the contractor liable, saying:

"Wherever the injury complained of is the taking or damaging of private property for public use without compensation then under the guarantee of the federal constitution against such invasion of the private rights of property, neither the state itself nor any of its agencies or mandatories may claim exemption from liability."

REFERENCE BOOKS ON PIPE ARE ISSUED

Youngstown Sheet & Tube Company Youngstown, Ohio, has issued two valuable books of reference. The first of these, containing 72 pages, gives tabular data on pipe produced by the company, as well as descriptions of the process of manufacturing welded and seamless pipe. Suggestions for the care of oil pipe are also included. The second book, entitled "Standard Pipe Reference Book," includes tables and other data to assist in making pipe installations more uniform. It includes information on plumbing and heating practice compiled by Samuel E. Dibble, of the Carnegie Institute of Technology; standard symbols for plumbing, heating and power plant work; and tables giving the physical properties and weights of fittings and other standard items. Both books are bound in leather.

REALTY BROKER. NO STATE LICENSE. NET LOSS \$12.125

Failure to hold a realty brokers' license during negotiations for the sale of the \$250,000 Devonshire Hills tract at San Carlos, cost Harry F. Davis a commission of \$12,125, according to a ruling of the state supreme court. The tract was sold for the Joseph S. Phelps estate. Had the broker been in possession of a license, W. F. Chipman, trustee of the estate, would be obliged to pay Davis the commission under the terms of an option agreement, the court stated.

CLAY TILE SIMPLIFICATION IS ADOPTED

The revised simplified practice recommendation No. 61 on Clay Tiles for Floors and Walls (formerly entitled White Glazed Tile and Unglazed Ceramic Mosaic) has received sufficient signed acceptances from manufacturers, distributors and users to insure the general adoption of the program by the industry, and is to be considered as in effect from October 15, 1930, according to a recent statement of the Division of Simplified Practice of the Bureau of Standards, Department of commerce.

The outstanding changes appearing in this revised simplification program are, the enlarging of the scope of the recommendation to include all floor and wall tiles with the exception of falence, which necessitated a change in the name of the recommendation from "White Glazed Tile and Unglazed Ceramic Mosaic" to "Clay Tiles for Floors and Walls"; the reducing of the grades of tile from three to two whereby the committee discarded the terms "Selected" and "Commercial" and recommended the adoption of "Standards" and "Seconds" as the only two grades of tile to be produced and marketed; and the elimination of package grade certificates because it was felt that the master grade certificates would serve the purpose for identification and grading. New minimum grade specifications for colored glazed tile, as well as tentative revised minimum grade specifications for ceramic mosaic are also a part of this simplification.

FINNISH PLYWOOD DOORS MAY BE EXPORTED

The Board of Directors of the Architects Association in Finland is considering a plan for standardization of the size of flush plywood doors, states a report from C. Roderick Matheson, Acting Commercial Attache at Helsinki, to the Lumber Division of the Department of Commerce.

It is believed that in addition to facilitating the work of local architects, the production costs at the factories could be lowered to such an extent as to enable them to produce quantities at competitive prices for export.

It is reported that a new veneer plant will commence production early in 1931. A building has been bought in Sairio and the mill will employ about 120 hands, according to local press reports.

OPENS BRANCH OFFICES

Pacific Wire Products Co. with headquarters in Los Angeles, has opened a branch office and warehouse at 383 Brannan street, to serve the Northern and Central California sections. The company manufactures bronze, dull and bright galvanized, and painted screen cloth.

BARGAIN PRICES OF BUILDING MATERIALS WILL NOT CONTINUE

"Economists are pointing out that the present bargain prices in construction material will not last long. For this reason it will be both good business and provident for cities to plan and execute public improvement projects as quickly as possible," says Frank J. Barrett, Seattle district manager here from the Portland Cement Association.

During the last decade there has been a steady population trek from rural communities to cities. Consequently with factories and business houses forced to curtail activities, unemployment has struck many population centers with particular vigor.

"Economists and practical business men regard public construction as a balance wheel which can well be utilized in periods of business lulls. Business depressions are always characterized by lower prices, better values and efficient labor. Cities, therefore, who push public construction projects are not only taking the proper step to relieve unemployment and restore business to normalcy, but they also give their citizens bargains in public improvements.

"A remarkable instance of what a city can do in the way of providing employment and at the same time acquire needed public improvements is shown in a recent step taken in Chicago. Money was transferred by the city from the Chicago avenue tunnel construction fund to the fund of the water-pipe extension department. Immediately 200 men began working on water mains on two avenues—shortly their work will enable an additional 800 men in the employ of paving and allied contractors to start widening the pavements on these two thoroughfares. It is expected that four miles will be widened before weather conditions prevent further work.

"Recent reviews of street building activities throughout the nation show that fewer streets are being improved this year than last. On the other hand, rural highway building is having its best year. As dire a need exists for street improvement as for rural road extension, but clearly cities have neglected to sever red tape with the same dispatch as have state highway departments, counties and townships."

CANADIAN PROVINCES CURTAILING LUMBER PRODUCTION

Logging operations in Ontario are reported to have been greatly curtailed, despite the encouragement given lumbermen by the recent privilege to defer stumpage royalties payments, states a telegram from Lynn W. Meekins, Commercial Attache at Ottawa to the Lumber Division of the Department of Commerce. The trade reports excessive stocks of lumber on hand at the mills, with movements restricted due to market conditions. The saw log and lumber cut this winter are expected to be far below normal.

Logging cuts in British Columbia are reported to be operating at 25 per cent of capacity and this winter's saw-log and lumber cut are expected to be by the trade to be far below normal, states a telegram from E. G. Babbitt, Trade Commissioner at Vancouver to the Lumber Division of the Department of Commerce. Lumber prices are reported to be holding firm and lumber stocks at the mills are decreasing.

OAKLAND AMENDS PLUMBING ORDINANCE

An amendment to the present city plumbing ordinance approved by the Oakland city council gives plumbing firms the choice of either depositing \$100 with the plumbing department from which fees are taken as required or paying the fee on each job. Heretofore it has been necessary for plumbers to deposit \$100. Many complained that this method tied up their money.

The amended ordinance reads as follows:

Section 21—Every master plumber may deposit with the Bureau of Permits and Licenses the sum of \$100 in cash, as a guarantee for the payment of all fees for permits and inspections that may become due and be owed by said person to the city of Oakland.

Where no deposit is made, the fee must be paid as provided in Section 16 of this ordinance—(4017 N. S.)

Section 21, before amending, read as follows:

"Every master plumber, obtaining a license hereunder, shall deposit and shall maintain on deposit with the Bureau of Permits and Licenses, subject to the provisions hereinafter contained, the sum of \$100 in cash, as a guarantee for payment of all fees for permits and inspections that may become due and be owed by said person to the city of Oakland, and as a further guarantee that all plumbing work done under the authority of said license will be done in compliance with all the provisions and requirements of this ordinance, and of the rules and regulations herein established."

CROSS ARMS TO BE MADE IN AUSTRALIA

For the first time, Australia mountain ash is to be used for cross-arms, states a communication from Trade Commissioner James E. Peebles, Sydney to the Lumber Division of the Department of Commerce. It is stated that a twelve months' contract has been placed with a firm at Wagga, New South Wales, to supply the Postal Department with cross-arms, to be manufactured from native mountain ash, a species of Eucalyptus.

A member of the firm states that mountain ash will produce cross-arms of the required length and width and free from knots. The firm also anticipates using substantial quantities of the wood for the manufacture of ash and door material.

BETTER HOMES BOOKLET

Paraffine Companies, Inc., 475 Brannan St., San Francisco, has issued a Home Building Handbook called "Better Home Construction in the West," designed for the use of home builders, contractors and architects. The book is based upon interviews with home owners, and deals with the dangers to be encountered in use of inferior materials and irresponsible contractors.

Purchase by the State of the last privately owned toll bridge in Arkansas is announced by the state highway commission. The bridge crosses White River at DeWalls Bluff and was owned by the White River Bridge Co. The toll charge has been 75c for each automobile, but the state will reduce this to 50c until the purchase price, \$463,000, has been amortized, when the bridge will be made free.

SPEEDMATIC SAW NOW BEING MARKETED

The Porter-Cable-Hutchinson Corp., Syracuse, N. Y., has placed on the market a new hand power saw known as "Speedmatic Saw," Type No. 9. This is in addition to its Type K-8 of the same name. Although similar in general appearance to the latter, the Type K-9 is nevertheless mechanically different, being of the gear driven type. The motor is 1 1/4 H. P. and is geared to the drive arbor through hardened spiral gears having a reduction ratio of 2-1/7 to 1. This drives the 9" saw blade at an unusually high speed for this type of saw, running at 5000 R. P. M. free speed, and about 4000 R. P. M. under the average cutting load. At this high speed it is possible to rip a 3 inch plank 12 feet long in one minute; cross cut 3x6 in two seconds; cross cut a 2x12 in four seconds. Type K-9 will cut a maximum depth of 3-1/8". Both depth and angle adjustments are easily made by turning a thumbscrew. The former has a 1-3/8" travel and any angle up to 45° can be secured, the scale being graduated in 5°. Dadoes 6" in diameter, 1/2" wide maximum can be used. This dado will cut a maximum depth of 1-5/8". The motor is cooled by a large turbine fan which draws the air in through the commutator and expels it through the saw housing and also a special opening to blow the dust away from the cutting line. Four S.K.F. precision ball bearings are used, eliminating wear at vital points. A swing guard completely covers the blade at any angle, opening easily when cutting and snapping immediately into place when finished.

Speed of saw is correct for using thin emery wheels for cutting marble, tile, stone, soft metals, etc.

Due to the compact and well-balanced construction, this "Speedmatic Saw" can be easily operated with one hand. However, an auxiliary knob on front can be used for guiding if required. This same knob also controls the angle adjustment.

Weight, 23 lbs.; overall length, 12 1/2"; width, 9 3/4"; height, 11 1/4". Rip guide, combination wrench and screw driver, 15 ft. #14 rubber cord, switch in handle, combination blade and carrying case are furnished.

OREGON STATE BUILDING CODE LIMITS EXEMPTIONS

Greater restrictions on buildings than are required under the state building code may be imposed by cities of Oregon, but they cannot cut the requirements below the state minimum requirements, points out H. E. Plummer, chief of the building bureau at Portland.

Plummer states that if the next legislature passes the state code which has been prepared for the League of Oregon Cities by Chris Schuembel of Oregon City, and Fred Williams of Salem, for its consideration before submission to the legislature, Portland will be limited in the exemptions it may grant.

Exemptions from the city's building code have been very frequent in the past, Plummer pointed out.

Twenty-two who washed trout cost Albert Bannister of Santa Cruz a suspended fine of \$200 in justice court at Santa Cruz. Bannister, a plasterer, washed his tools and a tub or two in a brook which flows through the western part of the city. The 22 trout were found by Deputy Fish and Game Commissioner Forrest J. McDermott. Bannister pleaded guilty but argued he caused the death of the trout inadvertently.

Building News Section

APARTMENTS

Contract Awarded.

APARTMENTS Cont. price, \$7800
RICHMOND, Contra Costa Co., Calif.
 Twenty-third St. bet. Clinton and
 Grant Avenues.

Two-story frame and concrete flats
 and stores.

Owner—John Ambrosio, % architect.
 Architect—Jas. Narbett, 474 31st St.,
 Richmond.

Contractor—Valine & Lawrence, Ro-
 deo, Calif.

Plans Being Figured.

ADDITION Cost, \$22,000
WATSONVILLE, Santa Cruz Co., Cal.
 Three-story frame and stucco addi-
 tion to apts. (4 apts.)

Owner—Stewart Thompson, 19 Mad-
 ison St., Watsonville.

Architect—Wolfe and Higgins, Realty
 Bldg., San Jose.

Garage to care for 10 cars, steam
 heating plant, etc.

Owner Taking Bids.

APARTMENTS Cost approx. \$18,000
OAKLAND, Alameda Co., Calif. Park
 Boulevard.

Two-story and basement frame and
 stucco apartments.

Owner—H. E. Lansing, 2316 14th Ave.,
 Oakland.

Architect—F. H. Slocombe, 62 York
 Drive, Piedmont.

Bids are being received by owner
 on a general contract and also segre-
 gated bids.

Carpentry Finish Labor Bids Wanted.
APARTMENTS Cost, \$650,000
SAN FRANCISCO, California St. and
 Joice Street.

Eight-story Class A steel frame and
 reinforced concrete apartments
 (300 rooms).

Owner and Builder — Marian Realty
 Co., 110 Sutter St., San Francisco

Architect—H. C. Baumann, 251 Kear-
 ny St., San Francisco.

As previously reported, Incinerator
 awarded to Kerner Incinerator Co.,
 450 Clementina St., S. F.; electrical
 work to Alta Electric Co., 938 How-
 ard St.; elevators to Atlas Elevator
 Co., 34 Harriet St., S. F.; concrete and
 carpentry to Mission Concrete Co., 270
 Turk St., S. F.

Plans Being Completed.

APARTMENTS Cost, \$80,000
SAN FRANCISCO, Cervantes and
 Prado Streets.

Three-story and basement frame and
 stucco apartments (18 3- and 4-
 room apts.)

Owner and Builder — Ben. Liebman,
 1555 Francisco St.

Plans by Lawrence Ebbs, 320 Ful-
 ton Street.

Plans Being Prepared.

APARTMENTS Cost each, \$60,000
SAN FRANCISCO, Marina District.

Two 3-story and basement frame and
 stucco apartments (18 apts. each)

Plans by Lawrence Ebbs, 320 Ful-
 ton Street.

Owner—Witheld.

Will have composition roof, steam
 heating systems.

Sub-Bids Being Taken.

APARTMENTS Cost, \$175,000
SAN FRANCISCO, Green Street near
 Octavia Street.

Six-story class A steel frame and
 concrete apartments (112 rooms).

Owner and Builder—F. L. Hansen, 282
 Seventh St.

Engineer—John C. Little & Co., 251
 Kearny St.

BONDS

FRESNO, Fresno Co., Cal.—Election
 will be held in November 21 in Bul-
 lard School District to vote bonds of
 \$34,000 to finance erection of a new
 school building. Trustees of the dis-
 trict are: F. L. Alcorn, H. D. Bartlett
 and W. G. Milholland.

CHURCHES

Plans Being Completed.

SACRAMENTO, Sacramento Co., Cal.
 SW 39th and J Sts. (106x324-ft.).

Two-story brick and concrete church.
 Owner—Roman Catholic Bishop (Rev.
 M. L. Lyons, pastor).

Architect—Harry Devine, California
 State Life Bldg., Sacramento.

Bids will be taken in about 2 weeks.

Preparing Working Drawings.

CHURCH Cost, \$6500
WILLOWS, Glenn Co., Cal.

One-story frame and stucco church.
 Owner—First Church Christ Scientist,
 Willows.

Architect—Otto Deichmann, 110 Sutter
 St., San Francisco.

Bids will be taken in two weeks.

Sub-Contracts Awarded.

GUILD HOUSE Cost, \$6500
SAN FRANCISCO, Ocean Ave. near
 San Fernando Street.

One-story frame and stucco guild
 house.

Owner—St. Francis Community Church
 Architect—Coxhead and Coxhead,
 Hearst Bldg.

Contractor—Henry Papenhausen, 595
 Victoria Street.

Mill Work—Empire Planing Mill, 750
 Bryant Street.

Plumbing—Higgins & Kraus, 730 Te-
 hama Street.

Lumber—Mission Lumber Yard, 1307
 Valencia St.

Plastering—Johnson & Campbell, 3443
 17th Street.

Electric Wiring—Galvin Brothers.
Brick Work—Wm. Heldenselch, 129
 Shotwell Street.

Painting—Reliable Painting Co., 3247
 19th Street.

A Demonstration of the SKILSAW PORTABLE ELEC- TRIC HAND SAW

Will solve your cutting problems.
 (Four Models, 1/8 to 1 h. p.)

ELECTRIC HAMMERS ELECTRIC DRILLS GRINDERS, BUFFERS

PETER H. NELSON

Labor Saving Portable Electric
 Tools.

1248 Mission St.
 San Francisco

Underhill
 7662

Plans Being Completed.

CHURCH Cost, \$250,000
SAN FRANCISCO, Funston Ave. and
 Judah St. (120x245-ft.)

Class A reinforced concrete church
 (2000 seating capacity).

Owner—Roman Catholic Archbishop
 of San Francisco, 1100 Franklin
 Street.

Architect—Shea and Shea, 454 Mont-
 gomery Street.

Bids will be taken in about 30 days.

Contract Awarded.

BLDGs. Cost approx. \$500,000
CARMEL, Monterey Co., Cal.
 Group of fireproof buildings.

Owner—Carmelite Monastery, Santa
 Clara.

Architect—Maginnis & Walsh, Boston,
 Mass.

Contractor—Thos. M. Jones, 643 29th
 Ave., San Francisco.

Contract Awarded.

CHURCH Cost, \$18,000
PALO ALTO, Santa Clara Co., Cal.
 Addison St. near Middlefield Rd.

One-story frame and stucco church.
 Owner—Church of Latter Day Saints.

Plans by Owner, Salt Lake City, Utah
 Contractor—The Minton Co., Mt. View

Contract Awarded.

CHURCH Cont. price, \$29,500
NORTH OAKLAND, Alameda Co.,
 Calif.

Two-story frame and brick veneer
 church (auditorium to seat 570).

Owner—Colored Baptist Church.
 Architect—Charles W. McCall, 1404
 Franklin St., Oakland.

Contractor—George Martin, 1812 Jef-
 ferson St., Oakland.

Previously reported as being award-
 ed to C. H. Lawrence, of Oakland.

FACTORIES AND WARE- HOUSES

Plans To Be Prepared.

FACTORY Cost, \$—
OAKLAND, Alameda Co., Cal. Foot-
 hill Blvd. and 163rd Ave.

Factory and Home (height and type
 of structure not determined).

Owner—Wurm Wover Hosiery Mills,
 J. W. Tilley, Mgr., 414 13th St.,
 Oakland.

Architect—Not Selected.

Contract Awarded.

STORAGE BLDGS. Cost, \$12,000
OAKLAND, Alameda Co., Cal. Elm-
 wood Ave., bet. 29th and Fruitvale
 Avenues.

Two one-story concrete storage bldgs
 Owner—Morris Draying Co., 101 Web-
 ster St., Oakland.

Architect—R. C. Schuppert, 4637 Park
 Blvd., Oakland.

Contractor—Dyer Constr. Co., Ray
 Bldg., Oakland.

Construction will start immediately.

Plans Being Figured—Bids Close, Nov.
 15th, 12 Noon.

SERVICE BLDGS. Cost, \$45,000
REDWOOD CITY, San Mateo Co., Cal.
 Group of service bldgs. (wood frame
 and tile walls).

Owner—Pacific Gas & Electric Co., 245
 Market St., San Francisco.

Plans by Eng. Dept. of Owner.

Group includes warehouse, garage,
 service departments, superintendent's
 offices, etc.

Bids Opened.

WAREHOUSE Cost, \$—
SAN FRANCISCO, Fifteenth and Harrison Streets.

First unit of 2-story reinforced concrete central storage warehouse (flat slab construction).

Owner—City and County of San Francisco.

Architect—Dodge Riedy, Pacific Bldg.
 Following is a complete list of bids:

General Work	
Mahony Bros., Flood Bldg.	\$73,450
Mission Concrete Co.	74,326
MacDonald & Kahn.	74,690
Monson Bros.	74,990
Anderson & Ringrose.	75,000
Frank J. Reilly.	75,550
Spivock & Spivock.	76,700
C. C. W. & H. H. Baun.	77,866
N. H. Sjoberg & Sons.	78,714
J. Harold Johnson.	79,759
P. L. Hansen.	79,660
Larsen & Larsen.	81,200
H. H. Larsen & Co.	81,221
J. W. Cobby & Son.	82,385
Louis Cohn.	82,888
H. L. Petersen.	83,407
Vogt & Davidson.	84,334
Clinton Stephenson Const. Co.	84,740
Sorensen & Haggmark.	87,700
F. C. Amoroso.	89,900

Electrical Work

Aetna Electric Co., 1337 Webster Street	\$2664
G. H. Armstrong.	3370
Fred Wilson.	3520
Enterprise Electric Co.	3562
R. Flatland.	3653
Atlas Electric Co.	3665
Superior Electric Co.	3,665
Crown Electric Co.	3,722
Strom & Smith.	3750
Edw. E. Dowd.	4120
N. C. Nicklassen.	4000
E. W. Scott.	4270

Plumbing

Scott Co., 243 Minna St.	\$3637
Oscar Aaron.	3695
Jas. Pinkerton.	3788
Tuber Company.	3929
Thos. Skelly.	3950
Jas. Skelly.	3955
Higgins & Krauss.	3997
O'Mara & Stewart.	4175
Wm. Wara.	4235
H. Lawson.	4295

Plans Being Prepared.

WAREHOUSE Cost, \$—
WATSONVILLE, Santa Cruz Co., Cal.
 Beach Road.

Warehouse and distributing plant.

Owner—Western Oil & Refining Co., (Joe L. Cator, Pacific Coast representative, 555 Berry St., S. F.)

Architect—Eng. Dept. of Owner, 555 Berry St., San Francisco.

Wood Roof Truss Contract Awarded.
OFFICE Cost, \$—
SAN FRANCISCO, W Potrero Ave.

near 15th Street.

One-story class C offices and warehouse.

Owner—Withheld.

Lessee—Diamond Electric Mfg. Co.
 Plans by Eng. Dept. of Lessee, 1264 Folsom St.

Contractor—Louis Johnson, 729 Occidental Ave., San Mateo.

Contract awarded for eight 65-ft. wood roof trusses.

Contract Awarded.

FACTORY Cost, \$125,600
PORTLAND, Oregon, N 15th St.

Five-story and part basement reinforced concrete and brick factory (100x100-ft.; brick facing, saw-tooth roof).

Owner—Ames Harris Neville Co., 100 N 15th St., Portland

Engineers—Austin Co., Porter Bldg., Portland.

Contractor—Ross B. Hammond, Public Service Bldg., Portland.

DIXON, Yolo Co., Cal.—Bottling plant of P. M. Doyle, local dairyman, destroyed by fire. The loss, includ-

ing equipment and stored material, is estimated at cost \$200,000.

Contract Awarded.

STAGE DEPOT Cost, \$10,000
DAVIS, Yolo Co., Cal. At Davis Wye

one mile west of Davis.

Auto stage depot, 81 by 20 ft.

Owner—Richfield Oil Co.
 Plans by Eng. Dept. of Owners.

Contractor—Campbell Const. Co., 800 K St., Sacramento.

Will contain dining room, waiting room, rest rooms and kitchen. Auto service station will be included in the project.

Preparing Plans.

NEWSPAPER BLDG. Cost, \$—
POMONA, Los Angeles Co., Cal. SE

Third and Thomas Sts.

Three-story class A reinforced concrete newspaper bldg. (119x120)

Owner—Pomona Progress-Bulletin.

Architect—Lincoln Rogers, 2412 W 7th Street, Los Angeles.

Contract Awarded.

WAREHOUSE Cost, \$15,000
STOCKTON, San Joaquin Co., Cal.

One-story box shoo warehouse, 100x112 ft. with basement 90x112 ft.

Owner—Stockton Box Factory, Stockton.

Private plans.

Contractor—O. H. Chain, Bank of America, Stockton.

An electric elevator will be installed.

Sub-Contracts Awarded.

ALTERATIONS Cost, \$20,000
SAN FRANCISCO, 2900 Mariposa Ave.

Alterations and additions to warehouse.

Owner—Western Paper Stock Co., 2710 16th Street.

Architect—Eng. Dept. of Owner.

Contractor—Spivock and Spivock, Hobart Bldg.

Plumbing—Geo. Weinholz, 1450 Howard Street.

Electric Wiring—Enterprise Elec. Co., 654 Mission St.

Mill Work—Portman Planing Mill, 1618 Mission St.

Contract Awarded.

BAKERY, ETC Cost, \$350,000
LOS ANGELES, Cal. No. 2930 Fletcher Drive.

Two-story reinforced concrete bakery and offices (230x290 ft.) and one-story reinforced concrete and steel garage (79x60 ft.)

Owner—Van de Kamp's Holland Dutch Bakeries.

Architect—McCormick Co., 41 Park Row, New York City.

Contractor—Pozzo Construction Co., 421 Macy St., Los Angeles.

Contract Awarded.

WAREHOUSE Cost, \$1,000,000
LOS ANGELES, Cal. NE Ninth and Alameda Streets.

Six-story and basement Class A reinforced concrete warehouse (1st unit) (620x100 ft.)

Owner—Overland Terminal Warehouse Company.

Architect—Samuel H. Dunford, 5860 Avalon Blvd., Los Angeles.

Contractor—J. V. McNeil Co., 5860 Avalon Blvd., Los Angeles.

Seven freight elevators and one passenger elevator; automatic sprinkler system, cold storage facilities, spiral chutes, etc.

Plans Complete

NEWSPAPER BLDG. Cost, \$—
SAN DIEGO, Calif.

Three-story and basement reinforced concrete and terra cotta newspaper building (50x200-ft.)

Owner—San Diego Union and Evening Tribune.

Architect—Lincoln Rogers, 2412 W 7th Street, Los Angeles.

Plans Being Prepared—Grading Bldg. Being Taken.

WAREHOUSE, ETC Cost, \$60,000
SANTA ROSA, Sonoma Co., Cal.

Service group (warehouse, garage, shops, transformer house, meter house, pole yard, etc.)

Owner—Pacific Gas & Electric Co., 215 Market St., San Francisco.

Architect—Eng. Dept. of Owner.

Bids Rejected.

FACTORY Cost, Approx. \$14,000
SAUSALITO, Marin Co., Cal.

One-story reinforced concrete boat and motor factory.

Owner—Italian American Motors Co., Inc., 604 Montgomery St., San Francisco.

Plans by McFarland & Moore, 126 Otis St., San Francisco (Market 5400).

Owner will build by day's work.

Concrete bids are now being received by the owner.

Contract Awarded.

WAREHOUSE Cost, \$65,000
FRESNO, Fresno Co., Calif. R and Inyo Streets.

Two-story and basement concrete distributing plant and warehouse (150x200-ft.)

Owner—United Grocers, Inc. (J. B. Rhodes, Mgr.) Fresno.

Architect—Swartz and Ryland, Brix Bldg., Fresno.

Contractor—Fischer & McNulty, Mattei Bldg., Fresno.

Bids To Be Opened Within One Week.

WAREHOUSE Cost approx. \$150,000
SAN FRANCISCO, Sansome and Vallejo Streets.

Three-story reinforced concrete warehouse.

Owner—Poultry Producers of Central California, 700 Front St.

Architect—H. C. Baumann, 251 Kearny Street.

SANTA ANA, Orange Co., Cal.—Stone & Webster, engineers and contractors, Laughlin Bldg., Los Angeles, have been appointed consulting engineer and will make soil tests next week in connection with proposed factory to be erected on an eighty-acre site at Fairview and Bristol Sts., Santa Ana, for the Pittsburgh Plate Glass Co. Building will be of steel frame construction and cost \$4,000,000.

Contract Awarded.

PLANT Cost, \$2,000,000
AVON, Contra Costa Co., Cal.

Cracking plant (tube and bank type). Owner—Associated Oil Co., Associated Oil Co., San Francisco.

Plans by Eng. Dept. of Owners.

Contractor—E. B. Badger & Sons Co., Boston, Mass.

The plant will be a complete unit, consisting of cracking furnaces and bubble towers, treatment plant, re-run stills and power plant and will have a capacity of 10,000 barrels per day.

GARAGES AND SERVICE STATIONS

Bids Opened

GARAGE Cost, \$—
SEATTLE, Wash. Sixth Ave., bet. University and Union Sts.

Five-story and basement reinforced concrete garage, depth 120 feet, frontage, 116 feet with rear frontage 141 feet (spiral ramp type).

Owner—Public Garage, Inc.

Architect—Schack & Young, Central Bldg., Seattle.

Low Bidder—Edgar S. Booker, 4626 21st Ave. NE, Seattle, at \$142,171.

Plans Being Figured.

SALESBROOM, ETC. Cost, \$20,000
SAN FRANCISCO. Location Withheld.

One-story brick salesroom and service station.

Owner—Ray Hasselback (Ford dealer)
Architect—James S. Arnott, 417 Market Street.

Engineer—W. Adrian, 417 Market Street.

Plans Being Figured—Bids Close Nov. 14, 11 A. M.

GARAGE Cost, Approx. \$30,000
BERKELEY, Alameda Co., Cal. Oxford Street

Class C concrete garage and service station.

Owner—Regents of University of California, Berkeley.

Architect—W. H. Ratcliff Jr., Chamber of Commerce Bldg., Berkeley

Lessee—Richfield Oil Company.

GOVERNMENT WORK AND SUPPLIES

HAWTHORNE, Nevada—Bureau of Yards and Docks, Navy Department, Washington, D. C., will ask bids the latter part of December for the construction of a water reservoir at the Naval Ammunition Depot at Hawthorne; estimated cost \$150,000.

MARE ISLAND, Cal.—Until December 3, 11 a. m., under Specification No. 6325, bids will be received by Public Works Officer, Mare Island Navy Yard, for painting two buildings and coating the roofing of fourteen buildings at the Mare Island Navy Yard Hospital. Surfaces to be painted and coated involve approximately 15,000 and 84,000 square feet, respectively. The Government will furnish material for roof coating. Specification No. 6325 may be obtained on application to the Commandant, Navy Yard, Mare Island, Cal. Deposit of a check or postal money order for \$5, payable to the Chief of the Bureau of Yards and Docks, is required as security for return of the specification.

PALO ALTO, Santa Clara Co., Cal.—Geo. B. Moore, 531 Stanford, Palo Alto, at \$11,970 awarded contract by Supervising Superintendent of Construction, U. S. Veterans' Hospital, Palo Alto, for four additions to the Buildings Nos. 101, 102, 103, 111 and 113 at the Veterans' Hospital, Palo Alto. This work will include excavating and backfilling, re-seeding lawns, mass and reinforced concrete, reinforcing steel, cast iron vents, W. I. railings, woven wire grilles, built-up roofing, sheet metal work, cement plaster and stucco, carpentry and mill work, painting, glazing, hardware, electrical work.

BOULDER CANYON DAM—See "Reservoirs and Dams" this issue. Bids to be asked about December 1, to be opened about March 1, to construct the Boulder (Hoover) Dam.

Plans Being Completed.

PLANT Cost, \$285,000
HAWTHORNE, Nev. Naval Ammunition Depot.
Mine Filling Plant.
Owner—U. S. Government.
Plans by Bureau of Yards & Docks, Navy Dept., Washington, D. C.

It is expected that bids will be asked the latter part of December.

PALO ALTO, Santa Clara Co., Cal.—Geo. B. Moore, 531 Stanford, Palo Alto, at \$824, submitted lowest bid to Supervising Superintendent of Construction, U. S. Veterans' Hospital, Palo Alto, to construct and finish complete rest room addition to Laundry Building No. 219 at Veterans'

Hospital, Palo Alto. The only other bids was submitted by A. Frederick Anderson, of Oakland, at \$855.

Bids referred to Washington for award.

SACRAMENTO, Cal.—Until November 13, 3 p. m., under Proposal No. 31-133, Specifications No. 2599, bids will be received by U. S. Engineer Office, California Fruit Building, for drilling nine test holes at the site of the proposed Table Mountain Dam, located approximately 13 miles north of the town of Red Bluff, Tehama County. Specifications obtainable from above.

SACRAMENTO, Cal.—Until November 13, 3 p. m., under Order No. 2598-1719, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver Rio Vista, Solano County:

Lapwelded steel pipe, made of ½-in. thick steel plate, 21 in. O. D. x 8 ft. 7 in. long.

Lapwelded steel pipe, made of ½-in. thick steel plate, 21 in. O. D. x 14 ft. 6 in. long.

Pipes shall be made from special refined open hearth welding steel plates with a tensile strength of 48,000 pounds to 58,000 pounds per square inch. Each pipe shall be made of one piece of this steel plate and lapwelded by the forge welding process by the best approved practice commonly used by the National Tube Co., the American Spiral Pipe Co., and others. After welding, each length of pipe shall be thoroughly annealed in order that strains may be removed.

AMERICAN LAKE, Wash.—Thomas Holmberg, 1752 S 54th St., Tacoma, Wash., at \$25,123 awarded contract by Supervising Superintendent of Construction, U. S. Veterans' Hospital, Palo Alto, Calif., to construct addition to Recreation Building at Veterans' Hospital, American Lake. This work will include, under general construction, excavating, finish grading, mass and reinforced concrete construction, miscellaneous iron work, steel stairs, sheet metal work, including ventilators, metal lathing, plastering, carpentry, insect screens, painting, glazing, hardware, plumbing, heating, electrical work, and outside service connections to services in place.

SAN FRANCISCO—Until November 21, 11 a. m., bids will be received by Constructing Quartermaster, Fort Mason, to furnish and install water softener at power plant of Letterman General Hospital. Date for opening bids was originally set for November 7, but this has been extended to November 21. Plans obtainable from Constructing Quartermaster at Fort Mason.

WASHINGTON, D. C.—Until Nov. 24, 10:30 A. M., under Schedule 2602, bids will be received by Purchasing Officer, Panama Canal, to furnish elevated steel tank. Specifications obtainable from above office and from Assistant Purchasing Officer, Ft. Mason, San Francisco.

HAWTHORNE, Nev.—As previously reported, Schuler & McDonald, Inc. 1723 Webster St., Oakland, at \$80,344 submitted low bid to Bureau of Yards and Docks, Navy Department, Oct. 29, under Specification No. 6319, to erect greenhouse at Naval Ammunition Depot at Hawthorne, Nev. The work will involve furnishing and erecting a structure, 18 by 75 ft. and includes concrete foundations, plant and work benches, plumbing, heating and lighting. A complete list of bids follows:

Item 1, work, complete; 2, ded. per

sq. ft.

Schuler & McDonald, Inc. 1723 Webster St., Oakland, Calif., item 1, \$8,344; 2, \$4.

Thos. Haverty Co., 316 E 8th St., Los Angeles, Calif., item 1, \$9,530; 2, \$4.

Dayton Greenhouse Mfg. Co., Dayton, Ohio, item 1, \$8,988; 2, \$1,375.

English Const. Co., Washington, item 1, \$9,900; 2, \$2.

Mittry Bros. Const. Co., Los Angeles, Calif., item 1, \$9,975; 2, \$4.30.

Ralph L. Bowman, 4252 Beverly Blvd., Los Angeles, Calif., item 1, \$10,975; 2, \$1.50.

Bids Opened.
LABORATORY Cost, \$—
SEATTLE, Wash. On Lake Union at old canal right-of-way.

Two-story and basement brick and steel Fisheries Laboratory (48x123) Owner—U. S. Government (Bureau of Fisheries).

Architect—John Graham, Dexter-Horton Bldg., Seattle.

Low Bidder—Western Const. Co., Seaboard Bldg., Seattle, \$101,200.

Neil McDonald, Seaboard Bldg., Seattle, second low bidder at \$101,466.

Bids were referred to Washington, D. C. with recommendation of award to low bidder.

SACRAMENTO, Cal.—Until Nov. 12, 3 P. M., under Order No. 2588-1710, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver f.o.b. Rio Vista, Solano County, Oregon. Time number, \$48, select common, as follows:

1530 ft. 8-in. x 8-in. x 18-ft.;
1536 ft. 8-in. x 8-in. x 16-ft.;
1920 ft. 8-in. x 8-in. x 20-ft.;
1350 ft. 6-in. x 6-in. x 18-ft.;
720 ft. 2-in. x 6-in. x 18-ft.;
5520 ft. 2-in. x 6-in. x 24-ft.;
1664 ft. 6-in. x 8-in. x 26-ft.;
5032 ft. 8-in. x 12-in. x 26-ft.;
5100 ft. 3-in. x 12-in. x 34-ft.;
1600 ft. 2-in. x 8-in. x 24-ft.;
144 ft. 3-in. x 8-in. x 24-ft.;
920 ft. 1-in. x 8-in. x 20-ft.;
1008 ft. 3-in. x 12-in. x 24-ft.;
1344 ft. 2-in. x 8-in. x 28-ft.;
2015 ft. 2-in. x 3-in. x 26-ft.;
208 ft. 2-in. x 6-in. x 26-ft.;
12480 ft. 2-in. x 12-in. x 26-ft.;
5400 ft. 2-in. x 10-in. x 24-ft.;
1190 ft. 2-in. x 10-in. x 14-ft.;
750 ft. 1-in. x 6-in. x 20-ft.;
2200 ft. 1-in. x 4-in. x 12-ft. "V" ceiling;

640 ft. 2-in. x 4-in. x 12-ft.

SAN FRANCISCO—United Roofing Co., at \$685 awarded contract by Constructing Quartermaster, Fort Mason, for re-roofing Patients' Recreation House, Building No. 63, at the Letterman General Hospital.

Other bids were:

Alta Roofing Co. \$758
Robert F. Smith. 764

DENVER, Colo.—Until 2 P. M., Nov. 17, bids will be received by the Chief Engineer of the Bureau of Reclamation, 1441 Welton St., Denver, for furnishing and delivering f.o.b. cars (at point to be stated) 1 traveling crane, capacity 20 tons, wit motor-operated hoist and hand operated bridge and trolley, complete. Proposal guaranty, 10%.

SACRAMENTO, Cal.—See "Excavations, Dredging and Harbor Works," this issue. Bids opened by U. S. Engineer Office to raise existing levee along west side of Yolo By-Pass.

SACRAMENTO, Cal.—See "Dredging Harbor Works and Excavations," this issue. Bids wanted under Circular Proposal No. 31-122, Specifications No. 2507, for raising levee, involving 157,000 cu. yds. material to be moved.

Plans Being Prepared.
HARRACKS Cost, \$200,000
MARE ISLAND, Cal. Mare Island
Navy Yard.
Barracks building.
Owner—United States Government.
Plans by Bureau of Yards and Docks
Navy Dept., Washington, D. C.

Plans Being Prepared.
SHIP, ETC. Cost, \$280,000
SAN DIEGO, San Diego Co., Cal.
Aircraft shop and gymnasium.
Owner—United States Government.
Plans by Bureau of Yards and Docks,
Navy Dept., Washington, D. C.

Plans Being Prepared.
STOREHOUSE Cost, \$120,000
PUGET SOUND, Wash. Puget Sound
Navy Yard.
Storehouse building.
Owner—United States Government
Plans by Bureau of Yards and Docks,
Navy Dept., Washington, D. C.

SACRAMENTO, Cal.—Until Nov. 10,
3 P. M., under Order No. 2574-1721,
bids will be received by U. S. Engineer
Office, California Fruit Bldg.,
to furnish and deliver f.o.b. Rio Vista,
Solano County, 1,000 ft. wire rope,
Warrington construction, regular lay,
plow steel, 1/2-in. dia., hemp center, 6
strands, 19 wires to the strand; in one
piece, on an individual reel. The rope
shall be furnished shall be uncoated. It
shall be regular right lay and con-
structed with a hemp core or center.
The minimum breaking strength shall
be 17,900 lbs.

WASHINGTON STATE.—As pre-
viously reported, Automatic Electric
Co., Chicago, Ill., at \$9255 submitted low
bid to Bureau of Yards & Docks,
Navy Department, October 29, under
Specification No. 6302, to furnish and
install dial type telephone, two cen-
tral office equipments (complete),
storage batteries, rectifiers and pow-
er connections and changing of two
existing telephone systems from man-
ual to automatic operations at the
naval ammunition depot, Puget Sound
Washington, and Pacific Coast tor-
pedo station, Keyport, Wash. Com-
plete list of bids follows:

Item 1, entire work; 2 per calen-
dar day in excess of 15 days, per calendar
day. Automatic Electric, Inc., 1033 West
van Buren St., Chicago, item 1, \$9,-
179.17; 2, \$16.
Graybar Electric Co., Inc., Wash-
ington, item 1, \$9,255; 2, \$14.75.

SACRAMENTO, Cal.—Until Nov. 12,
3 P. M., under Order No. 2572-1710,
bids will be received by U. S. Engi-
neer Office, California Fruit Bldg.,
to furnish and deliver f.o.b. Rio Vis-
ta, Solano County, Oregon Pine lum-
ber, select common, rough, as follows:
3712 ft. 12-in. x 14-in. x 26 ft.;
5276 ft. 12-in. x 14-in. x 34 ft.;
3344 ft. 12-in. x 14-in. x 16 ft.;
6080 ft. 4-in. x 16-in. x 38 ft.;
2048 ft. 4-in. x 16-in. x 32 ft.;
2600 ft. 3-in. x 16-in. x 26 ft.;
14040 ft. 3-in. x 12-in. x 30 ft.;
1224 ft. 3-in. x 12-in. x 24 ft.;
660 ft. 3-in. x 12-in. x 20 ft.;

SEATTLE, Wash.—Chamber of
Commerce has been advised by Su-
pervising Architect, Treasury De-
partment, that a Seattle architect will
be selected shortly to prepare plans
for the proposed Federal Marine Hos-
pital to be erected on a site already
donated by the city of Seattle on
Beacon Hill.

MARE ISLAND, Cal.—Until No-
vember 26, 11 a. m., under Order No.
6310, bids will be received by Public
Works Officer, Mare Island Navy
Yard, for terrazzo flooring in corri-
dors of Building H-70, Psychopathic

Ward, Naval Hospital, Mare Island.
Project involves removal of the ex-
isting cement topping and laying of
white terrazzo floors in the corridors
of the first and second floors. Spec-
ifications obtainable from above.

MARE ISLAND, Cal.—Until No-
vember 26, under Specification No.
6310, bids will be received by Bureau
of Yards and Docks, Navy Depart-
ment, Washington, D. C., to furnish
40-ton electric gantry crane and run-
way at Mare Island Navy Yard. Spec-
ifications obtainable from above office
and from Commandant at the Mare
Island Navy Yard.

Plans Being Figured—Bids Close Dec.
12, 3 P. M.
POSTOFFICE Cost, \$190,000 available
CORVALLIS, Oregon.
Postoffice building.
Owner—U. S. Government.
Architect—Supervising Architect,
Treasury Dept. Washington, D. C.

CAVITE, P. I.—Until November 19,
under Specification No. 6187, bids will
be received by the Bureau of Yards
and Docks, Navy Department, Wash-
ington, D. C., for reciprocating air
compressors for Naval Air Stations at
Cavite, P. I. Specifications obtainable
from above office and from the Com-
mandant at Mare Island Navy Yard.

WASHINGTON, D. C.—Bids are be-
ing received by Bureau of Supplies
& Accounts, Navy Department, Wash-
ington, D. C., to furnish and deliver
miscellaneous supplies and equipment
as noted in the following schedules,
further information being available
from the Navy Department Office,
100 Harrison St., San Francisco:
Bids Open Nov. 18

Mare Island, one sheet-iron folding
tinsmith machine, sch. 4402.
Western yards, hair felt and curled
hair, sch. 4402.

San Diego, one motor-driven pipe-
threading machine, sch. 4396.

San Diego, one motor-driven en-
gine lathe, sch. 4395.

San Diego, one motor-driven ball-
bearing molder, 1 motor-driven pat-
ternmakers' lathe, 1 electric tenoner,
and 1 power feed rod and dowel ma-
chine, sch. 4394.

San Diego, one paint-mixing outfit,
sch. 4393.

Western yards, insulating mate-
rials, sch. 4405.

San Diego, 3 16-in. hand saws, sch.
4422.

Mare Island, 150 gage glasses, sch.
4417.

Mare Island, commercial sheet brass
sch. 4416.

Mare Island, 1 engine lathe and
spare carbon brushes, sch. 4413.

San Francisco, 285 double deck
bunks, sch. 4419.

San Francisco, 1 vertical boiler, sch.
4427.

Bids Open Nov. 25
Puget Sound, 415 flanged heel globes
Sch. 4409.

SAN FRANCISCO—Following bids
received by Public Works Officer, 12th
Naval District, 100 Harrison St., for
repairs and replacements to Piers No.
1, 2 and 3 at U. S. Naval Receiving
Ship, San Francisco, at Yerba Buena
Island.

Henly-Thibbitts-Construction Co., 64
Pine St., (1) \$16,309; (2) \$18,500.

Duncanson-Harrelson Co., (1) \$19,-
992.

A. W. Kitchen, (1) \$22,836; (2) \$23,-
855.

M. B. McGowan, (1) \$23,361.

Bids held under advisement.

ALAMEDA, Alameda Co., Cal.—
City votes to donate a stretch of tide-
lands to the Federal Government on
which will be located an air depot

for which \$743,000 has already been
authorized by Congress for develop-
ment, including \$243,000 for depot
shops. Preparation of the landing
field, grading, seawall, railroad tracks
and drainage will cost an additional
\$500,000. Additional construction is
contemplated upon the completion of
these improvements.

HALLS AND SOCIETY BUILDINGS

Contract Awarded.
BUILDING Cont. price, \$24,943
SAN JOSE, Santa Clara Co., Cal. W
Santa Clara St.

One and one-half-story steel frame &
brick recreation building.

Owner—C. H. Kamm.
Architect—W. H. Weeks, 111 Sutter
St., Oakland, and Bank of Italy
Bldg., San Jose.

Lessee—O. J. Forman, San Jose.
Contractor—C. N. Swensen, 355 Stock-
ton Ave., San Jose.

Following is a complete list of bids;
Alt. No. 1—cost stone front; No. 2
terra cotta front.

Carl N. Swensen, San Jose (1) \$33,-
753; (2) \$34,943.

R. O. Summers, San Jose (1) \$55,-
940; (2) \$36,885.

P. N. Anderson, San Jose (1) \$35,-
990; (2) \$36,833.

The Mint Co., Mt. View (1) \$36,-
214; (2) \$37,445.

W. J. Ochs, San Jose (1) \$36,975;
(2) \$38,196.

J. C. Thorp, San Jose (1) \$38,263;
(2) \$39,465.

B. J. Smith, San Jose, (1) \$38,600;
(2) \$39,100.

J. E. Carlson, San Jose (1) \$38,240;
(2) \$39,135.

F. T. Edmans, San Jose (1) \$39,589;
(2) \$40,569.

J. W. Cobby & Son, San Francisco,
(1) \$38,888; (2) \$39,900.

Contract awarded on alternate No. 2
with terra cotta front.

ALBANY, Alameda Co., Cal.—City
departs proposal to issue bonds of
\$12,000 to finance purchase of a site
for a Veterans' Memorial building.

HOSPITALS

Plans Being Figured—Bids Close Dec.
1, 11 A. M.

SERVICE BLDG. Cost, \$100,000
SAN JOSE, Santa Clara Co., Cal.

Two-story reinforced concrete service
building.

Owner—County of Santa Clara.
Architect—Binder & Curtis, 35 W-San
Carlos St., San Jose.

Certified check 10% payable to
Henry A. Pfister, county clerk, re-
quired with bid. Plans on file in of-
fice of clerk.

FRESNO, Fresno Co., Cal.—Fresno
county, by a majority to 1154 votes,
approved the issuance of bonds of
\$250,000 to finance construction of a
surgery unit, a crippled children's
ward and a contagious ward at the
county hospital. Preliminary plans
for the structure were prepared by
Architects Swartz & Ryland, Brix
Bldg., Fresno, which firm will now
proceed to prepare the necessary
working drawings.

LOS ANGELES, Cal.—All bids for
plastering, sheet metal work, kitchen
equipment, light duty ranges, heavy
duty ranges, steamers and kettles,
dishwashing machines, low pressure
refrigeration and high pressure re-
frigeration (nine contracts) for the
new Acute Unit of the Los Angeles
General Hospital were rejected by the
Los Angeles county supervisors Oct.
30. No further action was taken.

Bids Opened.
WARD, ETC. \$352,000 available
AGNEWS, Santa Clara Co., Cal.
Two-story reinforced concrete ward,
kitchen and steam plant building
(tile partitions, wood roof con-
struction and tile roof; approx.
70,000 sq. ft. floor area).

Owner—State of California.
Architect—Division of Architecture,
State Dept. of Public Works, Geo.
P. McDougall, State Architect,
Public Works Bldg., Sacramento.
Following is a complete list of bids:
Alt. No. 1 add, for two-story wing
addition.

J. F. Shepherd, First National Bank
Bldg., Stockton, \$174,965; (1) \$32,996.
The Ninton Co., Mt. View, \$171,500;
(1) \$42,200.

K. E. Parker Co., San Francisco,
\$173,300; (1) \$41,800.
George Peterson, San Leandro, \$174-
900; (1) \$43,440.

Monson Bros., San Francisco, \$176-
760; (1) \$41,980.

Anderson & Ringrose, San Francis-
co, \$177,717; (1) \$49,260.

MacDonald & Kahn, San Francisco
\$178,000; (1) \$44,339.

Leonard Dioguardi, San Mateo, \$179-
360; (1) \$47,500.

Leibert & Trobeck, San Francisco,
\$179,500; (1) \$46,400.

Andy Sordal, Long Beach, \$179,527;
(1) \$42,836.

H. L. Petersen, San Francisco, \$181-
000; (1) \$45,282.

Robert McKee, Los Angeles, \$182-
900; (1) \$45,900.

J. J. Groden & Co., Alameda, \$183-
000; (1) \$44,500.

Sorensen & Haggmark, San Francis-
co, \$184,423; (1) \$45,923.

Jacks & Irvine, San Francisco, \$185-
000; (1) \$46,418.

Carl N. Swensen, San Jose, \$185-
680; (1) \$45,920.

James L. McLaughlin, San Francis-
co, \$186,916; (1) \$44,871.

F. L. Hansen, San Francisco, \$192-
628; (1) \$52,240.

F. C. Amaroso, San Francisco, \$202-
290; (1) \$53,890.

Vogt & Davidson, San Francisco,
\$202,315; (1) \$50,485.

P. F. Riley, Stockton, \$204,980.

Plumbing, Heating and Ventilating
Hateley & Hateley, 1710 10th Street,
Sacramento, \$34,988; (1) \$6,892.

Turner Co., San Francisco, \$38,105;
(1) \$6,925.

Scott Co., San Francisco, \$38,667;
(1) \$7,487.

Carpenter & Mendenhall, Sacra-
mento and Oakland, \$38,998; (1) \$7-
595.

O'Mara & Stewart, San Francisco,
\$39,640; (1) \$6,600.

George A. Schuster, Oakland, \$39-
880; (1) \$8,090.

Wm. F. Serpa, San Jose, \$40,498;
(1) \$6,500.

Herman Lawson, San Francisco,
\$41,500; (1) \$7,200.

Carl T. Doell, Oakland, \$41,348; (1)
\$8,586.

George C. Bell, \$41,680; (1) \$8,176.

W. H. Picard, Oakland, \$42,362; (1)
\$8,879.

Thomas Skelly, San Francisco, \$43-
130; (1) \$8,930.

Electrical Work
Roy M. Butcher, 1050 Sherwood, San
Jose, \$65,515; (1) \$11,114.

W. H. Smith, Long Beach, \$64,000;
(1) \$12,400.

H. S. Tittle Co., San Francisco,
\$64,580; (1) \$13,227.

Gilbert Pros., San Jose, \$69,231;
(1) \$10,622.

Collins Electric Co., Stockton, \$69,32;
(1) \$12,234.

Superior Electric Co., San Francis-
co, \$69,571; (1) \$12,325.

Eddy Electric Co., Stockton, \$75,53;
(1) \$17,919.

George Wolfe, Oakland, \$75,80; (1)
\$11,660.

T. L. Rosenberg, Oakland, \$77,75;
(1) \$13,830.

Luppen & Hawley, Sacramento, \$7-
969; (1) \$12,715.

Apex Electric Co., San Francisco,
\$81,45; (1) \$9,45.

Coast Electric Service, San Fran-
cisco, \$82,50; (1) \$17,00.

The Turner Co., San Francisco, \$8-
600; (1) \$15,50.

Morgan Electric Co., \$94,15; (1) \$1-
435.

Bids held under advisement. Con-
tract will be awarded, accepting the
alternate.

Contracts Awarded.
HOSPITAL Cost, \$70,500
SPADRA, Los Angeles Co., Cal. State
Hospital Grounds.

Two 1-story reinforced concrete ward
buildings with tile partitions, wood
roof construction and tile roofs;
approximate floor area, 4200 sq. ft.
for Wards 1 and 2; auditorium of
frame construction, 2700 sq. ft.
floor area, stucco exterior, tile
roof.

Owner—State of California.
Architect—Geo. B. McDougall, State
Architect, Public Works Building,
Sacramento.

General Work
John Strona, Chino, \$38,990

Plumbing, Heating and Ventilating
Thomas Havery, 316 E 8th St.,
Los Angeles, \$9,840

Electrical Work
H. R. Jones Electric Co., 1124
Fair Oaks, Los Angeles, \$1,300

SAN FRANCISCO—J. F. Hotter,
1810 Turk St., San Francisco, at \$245
submitted lowest bid to city purchas-
ing agent, 270 City Hall, to furnish
and install window shades in Ward
Building "E" at Laguna Honda Home.

Following is a complete list of the
bids received:

J. F. Hotter \$245.00
A. Ruhlman & Co. 275.26
D. N. & E. Walter 278.55

(Alternate, using duraflex) 265.00
Bids held under advisement.

SAN FRANCISCO—Until Nov. 10, 3
P. M., under Proposal No. 649, bids
will be received by Leonard S. Leavy,
city purchasing agent, 270 City Hall,
to furnish lighting fixtures in Laguna
Honda Home, Ward Building "F."

Specs. obtainable from above.

LOS ANGELES, Cal.—Following ad-
ditional contracts awarded by the Los
Angeles County Supervisors in con-
nection with the new Acute Unit of
the Los Angeles General Hospital:

Shades—Sunset Shade Co., 1612 North
Vermont Ave., L. A., \$12,595.

Electric Clocks—Newbery Electric Co.,
726 S Olive St., L. A., \$41,725.

Painting—D. Zelinsky & Sons, 115
Venice Blvd., L. A., \$130,850.

HOTELS

Contract Awarded.
ALTERATIONS Cost, \$20,000
SANTA ROSA, Sonoma Co., Cal. 4th
Street.

Alterations to hotel (remodel dining
room, etc.)

Owner—Leonard Howarth Est., Santa
Rosa.

Architect—Arthur S. Bugbee, 1462
Lombard St., San Francisco.

Contractor—Walter Proctor, 12 W 14th
St., Santa Rosa.

Sub-Contracts Awarded.
HOTEL Cont. price, \$23,850
SALINAS, Monterey Co., Cal.

Three-story reinforced concrete hotel
and stores (28 rooms, 2 stores; 50
by 50 feet).

Owner—R. B. Losada and A. Alcan-
tara, 29 Sausal St., Salinas.

Architect—Guy Koepff & M. S. Camp-
bell, associated, McDougall Bldg.,
Salinas.

Contractor—J. S. Boyd, Salinas.
Ornamental Iron, Structural Steel,
Steel Sash and Reinforcing Steel—

San Jose Iron Works, 535 W San
Carlos St., San Jose.

**Plans To Be Prepared—Financing Be-
ing Arranged.**

HOTEL Cost, \$120,000
HEALDSBURG, Sonoma Co., Calif.
West St. and Powell Ave. In the
Biardi Tract.

Hotel (European Inn type; 60 rooms).
Owner—Interests represented by Fred
K. MacDonald.

Architect—Not Given.

Fred K. MacDonald of the Casa Del
Rey of Santa Cruz is a prime mover in
this project which has received the
endorsement of the Healdsburg Cham-
ber of Commerce, which body has ap-
pointed the following committee to
work out means of financing: Fred
Young, Jos. H. Miller, Harold K. Mil-
ler, Ira Rosenberg, Roy Haley and
Stanley Jones.

Construction Postponed Until March,
1931.

HOTEL Cost, \$500,000
EUREKA, Humboldt Co., Calif. NW
Fourth and F Streets.

Ten-story class B reinf. concrete 200-
bed modern hotel building.

Owner—Pickwick Co. (Ed. Thompson,
5th and Mission Sts., San Fran-
cisco, in charge).

Architect—O'Brien Eros, and W. D.
Peugh, 315 Montgomery St., San
Francisco.

On previous call for bids following
contractors submitted figures:

Jas. L. McLaughlin Co., 251 Kearny
St., San Francisco.

L. E. Dixon, Los Angeles.

Larsen & Larsen, San Francisco.

Mercer-Fraser Co., Eureka.

Plans To Be Prepared.
HOTEL Cost, \$500,000
FRESNO, Fresno Co., Cal.

Six-story class A hotel and apart-
ment.

Owner—Herman Miller, et al, Los An-
geles.

Architect To Be Selected.

Negotiations are under way to pur-
chase the site at the northwest cor-
ner of M and Tulare Sts., 150 by 206
ft. The structure will contain 150 in-
dividual apartments and will have a
swimming pool, gymnasium, grill and
banquet room with basement garage
for tenants.

Plans Being Completed.
HOTEL Cost, \$2,500,000
LOS ANGELES, Cal. Argoyle Ave.

Owner—California Western Holding
Co. (G. H. Beesemeyer, Premises),
Los Angeles.

Architect—Gordon Kaufmann, Union
Bank Bldg., Los Angeles.

Soil tests are being made prepara-
tory to starting work.

ICE AND COLD STORAGE PLANTS

Contract Awarded.
ALTERATIONS Cost, \$30,000
FRESNO, Fresno Co., Calif. P and
Mono Streets.

Alterations to ice plant.

Owner—Fresno Consumers' Ice Co., P
and Mono Sts., Fresno.

Plans by Contractor.

Contractor—W. W. Williamson, 320
Market St., San Francisco.

Work has been started.

POWER PLANTS

OAKLAND, Cal.—Until Nov. 13, 12
noon, bids will be received by Frank
C. Merritt, city clerk, to furnish and
install conduit for traffic signal cable.
Specifications on file in office of clerk.
Walter N. Frickstad, city engineer.

VERNON, Los Angeles Co., Cal.—
The city of Vernon will retain an
architect within a short time to de-

when a building to house the new Vernon municipal power plant, for which bonds in the sum of \$3,900,000 were voted on September 10. It is expected that the bonds will be sold and construction started within sixty days. It will be a Diesel engine plant with a generating capacity of 47,000 horsepower. A distributing system will also be constructed. All plant equipment will be purchased by and installed under the supervision of the Vernon city engineer.

BURBANK, Los Angeles Co., Cal.—John A. Roebeling Sons Co. was awarded contract by the city council October 28 at \$1287.50 for furnishing approximately 10,000 lbs. of copper wire.

ATASCADERO, San Luis Obispo Co., Cal.—San Joaquin Light & Power Co., Power Bldg., Fresno, will commence construction shortly on a \$300,000, 35-mile extension of the power lines east of Atascadero.

VALLEJO, Solano Co., Cal.—Pacific Tel. & Tel. Co. will expend \$40,000 in the Vallejo district involving the placing of 624 ft. of main conduit; 4069 ft. underground and 29,669 ft. aerial cable throughout the city.

LOS ANGELES, Cal.—City defeats proposal to issue bonds of \$13,300,000 to provide for construction of (1) aqueduct power plant, (2) power development in Big Pine Creek, Owens Valley, (3) central receiving station and connecting lines, (4) Boulder Canyon power rights of way, (5) local distributing station, and (6) overhead and underground distribution systems.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

SAN DIEGO, Cal.—W. E. Harper, state senator-elect, announces that he is planning to introduce a bill at the coming session of the California legislature authorizing the expenditure of approximately \$100,000 for the construction of a armory on the San Diego civic center site.

SANTA CRUZ, Santa Cruz Co., Cal.—H. R. Lord, Santa Cruz, awarded contract by Garfield Park Improvement Club to install sprinkler system on grounds of the Garfield Park Library. The work will be financed by the club.

SALINAS, Monterey Co., Cal.—City council has approved plans for an addition to the city jail to house "bull-pen," three-cell quarters; the addition will be 56 by 17 ft. and will cost approximately \$7000. M. R. Keef is city clerk.

Plans Being Figured—Bids Close Nov. 24, 2 P. M.
LIBRARY Cost, \$40,000
FAIRFIELD, Solano Co., Cal.
Two-story concrete public library.
Owner—County of Solano.
Architect—Coffman, Sahlgren & Stafford, Forum Bldg., Sacramento.

FRESNO, Fresno Co., Cal.—County defeats proposal to issue bonds of \$500,000 to finance erection of a fire-proof hall of records annex to the county courthouse. The issue lost by the narrow margin of 73 votes. Preliminary plans for the annex were prepared by Architect W. D. Coates, Jr., Rowell Bldg., Fresno.

Contract Awarded.
ADDITIONS Cost, \$10,000
HILLSBOROUGH, San Mateo Co., Cal.
Two-story frame and stucco additions to firehouse.

Owner—Town of Hillsborough.
Architect—John White, 163 Sutter St., San Francisco.

Contractor—H. T. Holsher, 325 Elm St., San Mateo.

Following is a complete list of bids:
H. T. Holsher, San Mateo.....\$7,897
George McLeod, San Francisco.....8,118
Meese & Briggs, Burlingame.....8,428
M. J. Henry, Burlingame.....8,441
G. W. Williams & Co., ".....8,689
Chas. Hammer, Burlingame.....8,850
Chas. Peterson, San Mateo.....8,940
A. F. & C. W. Mattock, S. F.....8,994
Lebert & Trobeck, S. F.....9,784
H. H. McDonald, San Mateo.....8,063
(no certified check).

ALBANY, Alameda Co., Cal.—City defeats proposal to issue bonds of \$20,000 to finance erection of a new city hall.

SAN LUIS OBISPO, S. L. O. Co., Cal.—County supervisors have authorized a Los Angeles architect to prepare preliminary plans for a new county courthouse "with the understanding that the cost of such plans would incur no obligation on the part of the county." The county plans erection of a new courthouse. Means of financing, however, are yet to be determined, although a bond issue will probably be voted to finance the structure.

Contract Awarded.
JAIL Cost, \$129,458

LOS ANGELES, Cal.—Avenue 19.
Five-story and basement Class A reinforced concrete and hollow tile jail.

Owner—City of Los Angeles.
Architect—Los Angeles City Construction Department.

Contractor—Schuck Constr. Co., 1937 W-Sixty-second St., Los Angeles.
Plumbing, Heating and Ventilating—F. C. Schilling, Los Angeles, at \$31,637.

Electric Work and Fixtures—Lighting
Supply Co., Los Angeles, at \$4100
Painting—Pohl Brown, Los Angeles, at \$510.

Steel Cells—Brombacher Iron Works, Los Angeles, at \$24,730.

LAKEPORT, Lake Co., Cal.—Schwabacher-Frey Co., San Francisco, at \$447.50 awarded contract by county supervisors to furnish and install two steel filing cabinets for county clerk's office. Other bids: M. G. West Co., San Francisco, \$517.60; H. S. Crocker Co., San Francisco, \$595.

OAKLAND, Cal.—Spencer Elevator Co. at \$575 awarded contract by City Clerk to renew hoisting cable of passenger elevator No. 3 in City Hall.

RESIDENCE

Sub-Bids Being Taken.

RESIDENCE Cost, \$7500
SAN FRANCISCO St. Marys' Park.
One-story and basement frame and stucco residence (5 rooms, tile and composition roof).

Owner and Builder—A. R. Johnson, 3901 Mission St., San Francisco.
Plans by D. E. Jaekle, Call Bldg., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$10,000
PIEDMONT, Alameda Co., Cal. 110 Palm Avenue.
One-story and basement frame and stucco residence (7 rooms).
Owner—Geo. Lewis, 12 Wildwood Ave., Oakland.

Architect—Ray Keefer, 3281 Lakeshore Blvd., Oakland.
Contractor—Irwin H. Heimers, 745 Wala Vista Ave., Oakland.

Sub-Bids Being Taken.
RESIDENCE Cost, \$12,500
SAN FRANCISCO Darien Way and Manor Drive.

Two-story and basement frame and stucco residence (eight rooms and three baths).

Owner and Builder—P. R. Proctor, % Castle Bldg. Co., 830 Market St.
Architect—Ed. M. Sharpe, 525 Market Street.

Sub-Bids Being Taken.
RESIDENCES Cost each, \$7000
MILLBRAE HIGHLANDS, San Mateo Co., Cal.

Two 1-story and basement frame and stucco residence (5 rooms each).
Owner and Builder—Castle Bldg. Co., 830 Market St., San Francisco.

Plans by D. E. Jaekle, Call Building, San Francisco.

Preparing Working Drawings.
RESIDENCE Cost, \$40,000
HILLSBOROUGH, San Mateo Co., Cal.
Two-story and basement frame and brick veneer residence (14 rooms, 5 baths).

Owner—Charles Cherry, 111 Sutter St. San Francisco.
Architect—J. K. Ballantine, Jr., 137 Harlan, San Francisco.

Bids will be taken in about two weeks.

Plans Being Figured—Bids Close Dec. 2, 2 P. M.

COTTAGE Cost, \$—
IONE, Amador Co., Calif. Preston School of Industry.

Two-story and part basement brick and frame superintendent's cottage (10 rooms).

Owner—State of California.
Architect—State Department of Public Works, Division of Architecture, Public Works Bldg., Sacramento.

Bids are being received for a general contract with separate bids for mechanical work, comprising plumbing, heating, ventilating and electric work. Separate bids will also be considered for electric work and for plumbing, heating and ventilating work. Combined bids will also be received on all four branches of the work.

Under a previous call for bids, which were rejected, the construction included a one-story brick shop building, the low bidders being: General work, Lindgren & Swinerton, Inc., 225 Bush St., San Francisco, at \$36,499; electrical work, Collins Electric Co., Stockton, at \$1931; plumbing, heating and ventilating, L. H. Dallman, Sacramento, at \$9,953; mechanical work, Latourrette - Fical Co., Sacramento, at \$11,950.

Contract Awarded.
RESIDENCES Cost, \$150,000
LOS ANGELES, Cal. West Jefferson Boulevard.

Twenty-three one-story and basement frame residences, bungalow court and store.

Owner—Western Extension Co. (W. I. Hollingsworth, president).
Contractor—Wm. J. Crawford, 2136 W 75th St., Los Angeles.

Contract Awarded.
RESIDENCE Cost, \$12,000
BERKELEY, Alameda Co., Cal. 1030 Keefer Ave.
Two-story frame and stucco residence (8 rooms).
Owner—Dr. O. W. S. McCall, 941 Euclid Ave., Berkeley.
Plans by Contractor.
Contractor—Sam Steindell, 38 Northampton Road, Berkeley.

Completing Plans.
RESIDENCE Cost, \$10,000
SAN FRANCISCO, Forest Hill.
Two-story and basement frame and
stucco residence (6 rooms, 2 baths)
Owner—John Gould.
Architect—Crim, Resing & McGuin-
nes, 525 Market St.
Bids will be taken about Nov. 4.

Contract Awarded.
RESIDENCE Cost, \$15,000
PIEDMONT, Alameda Co., Cal.
Crocker Highlands.
Two-story and basement frame and
stucco residence.
Owner—Dr. Hobart Rogers, 400 29th
St., Oakland.
Architect—W. E. Schirmer, 700 21st
St., Oakland.
Contractor—J. H. Wendt, 556 Arling-
ton Ave., Berkeley.

Sub-Bids Being Taken.
RESIDENCES Cost, \$7500 each
MILBRAE HIGHLANDS, San Mateo
Three one-story and basement frame
and stucco residences (5 rooms ea)
(tile and composition roof).
Owner—Castle Bldg. Co., 330 Market
St., San Francisco.
Plans by D. E. Jaekle, Call Bldg., San
Francisco.

Bids Opened.
PARISH HOUSE Cost, \$10,000
OAKLAND, Alameda Co., Cal. Emer-
son and Excelsior Avenues.
Two - story frame and stucco parish
house.
Owner—Roman Catholic Archbishop of
San Francisco, 1100 Franklin St.
San Francisco.
Architect—W. E. Schirmer, 700 21st
St., Oakland.

Following is a complete list of bids:
General Work
Thos. Furlong, 460 Jerome Ave.
Oakland \$15,497
David Pagnini, S. F. 16,213
S. Rasori, S. F. 16,243
Leibert & Trobeck, S. F. 17,048
J. A. Bryant, S. F. 17,290
John McCarthy, Redwood City. 19,560

Plastering
Wm. Makin, 1048 Excelsior Ave.,
Oakland \$3,735
Frank Clausen, Oakland 4,035
P. H. Donnelly, Oakland 4,127
Bids held under advisement.

Contract Awarded.
RESIDENCE Cost, \$10,000
ALAMEDA, Alameda Co., Cal. No.
1428 Gibbons Drive
Two-story frame and stucco residence
(6 rooms).
Owner—C. A. Hulme.
Plans by C. E. Shipley, 1234 Pease
St., Alameda.
Contractor—E. W. Dahl, 2901 56th
Ave., Oakland.

Sub-Bids Being Taken.
RESIDENCE Cost, \$30,000
SAN FRANCISCO, Marina Blvd. W
Fillmore St.
Two - story and basement frame and
stucco residence (8 rooms and 3
baths; steam heating plant, tile
roof).
Owner and Builder—M. P. Storheim,
2225 North Point St.
Plans by Lawrence Ebbs, 320 Fulton
Street.

Plans Being Figured.
RESIDENCE Cost, \$7500
NEAR SARATOGA, Santa Clara Co.,
Cal. Quito Road.
One-story and basement frame and
stucco residence (5 rooms).
Owner—L. H. Prosetti.
Architect—Wolfe and Higgins, Realty
Bldg., San Jose.

Plans Being Figured.
RESIDENCE Cost, \$7500
SAN JOSE, Santa Clara Co., Cal.

One-story and basement frame and
stucco residence (7 rooms, 2 baths)
Owner—E. R. Buchser, 804 Minnesota
Ave., San Jose.
Architect—Wolfe and Higgins, Realty
Bldg., San Jose.
About two weeks will be allowed for
figuring the plans.

Plans Being Completed.
RESIDENCE Cost, \$16,000
SAN JOSE, Santa Clara Co., Cal.
Two-story and basement frame and
stucco residence (8 rooms, 3 baths)
Owner—Dr. E. E. Porter, Security B'k
Bldg., San Jose.
Plans will be ready for bids in one
week.
Architect—Wolfe and Higgins, Realty
Bldg., San Jose.

Plans Being Prepared.
RESIDENCE Cost, \$7000
EVERGREEN, Santa Clara Co., Cal.
One and one - half - story frame and
stucco residence (5 rooms; Eng-
lish type).
Owner—Withheld.
Architect—Wolfe and Higgins, Realty
Bldg., San Jose.
Bids will be taken in one week.

Sub-Bids Being Taken.
RESIDENCE Cost, \$14,000
SAN JOSE, Santa Clara Co., Calif.
Alum Rock Ave.
Two-story and basement frame and
stucco residence (7 rooms).
Owner and Builder—Arthur Chaire, %
Architect.
Architect—Wolfe and Higgins, Realty
Bldg., San Jose.

Plans Being Prepared.
RESIDENCES Cost each, \$15,000
SAN FRANCISCO, Monterey Blvd. be-
tween San Aliso and Westgate.
Two 2-story and basement frame and
stucco residences (9 room each).
Owner and Builder—Stoneson Bros. &
Thorinson, 279 Yerba Buena Ave.
Architect—Chas. Strothoff, 2274 15th
Street.
Sub-bids will be taken in about 3
weeks.

Plans To Be Prepared.
RESIDENCES Cost, \$—
SACRAMENTO, Sacramento Co., Cal.
H Street Road, 3 miles northeast
of American River Bridge.
Group of Spanish, English and French
type homes.
Owner and Builder—Frank P. Wil-
liams, H St. Road, Sacramento.
Private Plans.
Williams has purchased 74 acres in
the district formerly known as Ever-
erford Heights No. 3. The tract will
be re-named.

Contract Awarded.
RESIDENCE Cost, \$11,000
OAKLAND, Alameda Co., Cal. East
Turnley Ave. S Fairway.
Two-story and basement frame and
stucco residence (8 rooms and 2
baths).
Owner—F. C. Fischer.
Architect—Ray Keefer, 3281 Lakeshore
Bldg., Oakland.
Contractor—Geo. Windser, 928 Kings-
ton Ave., Oakland.

Segregated Bids Being Taken.
RESIDENCE Cost, \$25,000
SAN FRANCISCO, Camino Del Mar
and Lake St.
Two-story and basement frame and
stucco residence (10 rooms and 5
baths).
Owner—Charles J. Carter, 531 Hyde
St., San Francisco.
Architect—Ed. Mussen Sharpe, 523
Market St., San Francisco.
Agent—Allen & Co., 163 Sutter St.,
San Francisco.

Contract Awarded.
RESIDENCE Cost, \$45,000
BERKELEY, Alameda Co., Cal. North
Cragmont District.
Two - story and basement frame and
stucco residence (13 rooms).
Owner—Mrs. Nash, 1831 San Juan,
Berkeley.
Architect—Mark Daniels, Riviera,
Santa Monica.
Contractor—L. Weaver, Los Angeles.
Tile and composition roofing, hard-
wood floors, hardwood and pine trim,
automatic storage water heater, gas
unit heating system, wrought iron,
electric refrigeration, five tiled baths,
tile drainboards, garage.

Plans Being Refigured.
RESIDENCE Cost, \$17,500
SAN FRANCISCO, St. Francis Wood.
Two - story and basement frame and
stucco residence (12 rooms, three
baths).
Owner—T. Trevorrow (Allen and Co.)
168 Sutter St.
Plans by D. E. Jaekle, Call Bldg.
A. J. Herzie, 1945 Ocean Ave., is the
only contractor figuring the plans.
Oil burning system, full tile roof, all
colored tile kitchens and bath rooms,
oak floors throughout, hardwood trim,
electric refrigeration, sweep chutes,
etc.

Plans Complete.
RESIDENCE Cost, \$—
SAN FRANCISCO, St. Francis Wood.
Two-story frame and stucco residence
Owner—W. O. Granecher, 60 Ventura
Avenue.
Architect—Masten & Hurd, 210 Post
Street.

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Plans Being Prepared.
RESIDENCE Cost, \$300,000
GOLETA, Santa Barbara Co., Cal.
Reinforced concrete residence.
Owner—Mrs. S. M. Spaulding, Tecolote, Calif.

Architect—Williams Mooser Co., 681 Market St., San Francisco.
Outside Houses, stables gates and lodges, etc., now being constructed.

Contract Awarded.
RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Cal.
Two-story and basement frame residence with tile roof (15 rooms).
Owner—Rev. H. T. Dolbins, 600 Coventry St., Berkeley.
Architect—James Mitchell, 3 6 9 Pine St., San Francisco.
Contractor—Bessett Bldg., Co., 326 Walnut St., Burlingame.
Construction has been started.

Plans Being Prepared.
RESIDENCE Cost, \$7500
SAN FRANCISCO, St. Mary's Park.
One-story and basement frame and stucco residence (5 rooms, tile and composition roof).
Owner and Builder—A. R. Anderson, 3901 Mission St.
Plans by D. H. Jockle, Cal Bldg.
Sub-bids will be taken within one week.

Plans Being Figured—Bids Close Nov. 17, 2 P. M.
ADDITION Cost, \$—
DELANO, Kern Co., Cal.
Moving highway superintendent's cottage and constructing addition.
Owner—State of California.
Architect—State Department of Public Works, State Office Building, Sacramento.
Bids are being received by E. E. Wallace, district engineer of the commission, P. O. Box 1353, Fresno. The work will comprise excavation, concrete and masonry work, carpentry and mill work, lathing and plastering, sheet metal work, painting, plumbing, heating and electrical installations. Plans may be obtained from the district engineer on deposit of \$25. Cert. check 10%.

Low Bidder.
RESIDENCE Cost, \$7800
WATSONVILLE, Santa Cruz Co., Cal.
One-story and basement frame and stucco residence (seven rooms and two baths).
Owner—C. J. Seekins, Watsonville.
Architect—A. W. Story, Pajaro Valley Bank Bldg., Watsonville.
Low Bidder—T. H. Rosewall, Roach Road, Watsonville.

Low Bidder.
RESIDENCE Cost, \$28,000
SAN JOSE, Santa Clara Co., Cal. The Alameda.
Two-story and basement frame and stucco residence (11 rooms).
Owner—Richard Bressanl, Bank of Italy Bldg., San Jose.
Architect—Herman Krause, P. O. Box 783, San Jose.
Low Bidder—Henry Bolwin, 1041 Garland, San Jose.

Plans Being Completed.
RESIDENCE Cost approx. \$20,000
SANTA CRUZ, Santa Cruz Co., Cal.
Two-story and basement frame and stucco residence.
Owner—Dr. Percy Phillips, 286 Walnut St., Santa Cruz.
Architect—W. H. Weeks, 111 Sutter St., San Francisco.
Bids will be taken in one week.

Contract To Be Awarded.
RESIDENCE Cost, \$—
SAN FRANCISCO, St. Francis Wood.
Two-story frame and stucco residence
Owner—W. O. Granecher, 60 Ventura Avenue.

Architect—Masten & Hurd, 210 Post Street.
Contractor—William Martin, 666 Mission Street.

Contracts Awarded.
PARISH HOUSE Cost, \$—
OAKLAND, Alameda Co., Cal. Emerson and Excelsior Avenues.
Two-story frame and stucco parish house.
Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.
Architect—W. E. Schirmer, 700 21st St., Oakland.
Contractor—Thomas F. L. Furlong, 460 Jerome Ave., Oakland, \$15,471.
Plastering—Wm. Makin, 1048 Excelsior Ave., Oakland, \$2,795.

SCHOOLS

Plans Being Figured—Bids Close Dec. 3, 2:30 P. M.
SCHOOL Cost, \$650,000
SAN FRANCISCO, Noe and 25th Sts.
Class A junior high school building (3-story and basement concrete. Travertine exterior, tar and gravel roof; to accommodate approx. 800 students).
Owner—City and County of San Francisco.
Architect—Crim, Resing and McGuinness, 488 Pine St.
Segregated bids are wanted for:

General Contract.....	Est. cost \$18,000
Structural Steel.....	21,000
Mechanical Equipment.....	45,000
Plumbing, Etc.....	29,900
Electric Work.....	28,000

Time for completion is set at 300 days. Certified check 10% payable to the Clerk of the Board of Supervisors required with bid. Plans obtainable from the Bureau of Architecture, 2nd floor, City Hall.

Prospective Bidders.
SCHOOL Cost, \$70,000
CALISTOGA, Napa Co., Cal.
One-story class C brick school (eight classrooms, assembly room and shop).
Owner—California Grammar School District.
Architect—Davis-Pearce Company Inc., Builders' Bldg., Stockton.
Tile roof, oil burning system, etc.
Bids are to be opened at the Masonic Hall at Calistoga.
Following contractors have secured plans:
C. J. Hopkinson, 1810 25th St., Sacramento
J. S. Hannah, 268 Market St., San Francisco.
Geo. C. Maurer, 50 York Drive, Oakland.
Coulbert Bros., 4735 Brookdale Ave., Oakland.
F. L. Hansen, 282 7th St., San Francisco.
Grant L. Miner, Jr., 180 University

Ave., Palo Alto.
L. Uhels, Ripon.
J. J. Groden & Co., 1028 San Antonio, Alameda.
Frank Lamb, Vallejo.
E. K. Nelson, 557 Market St., San Francisco.
H. H. Henning, 1751 Berkeley Ave., Stockton.
Murphy & Taylor, Stockton.
Miner & Allen, Merced.
F. R. Sierist Co., 604 Mission St., San Francisco.
Sam Eyre, Tracy.
E. T. Lesure, 87 Ross Circle, Berkeley.
David Nordstrom, 15 Nace St., Oakland.

Azevedo & Sarmento, 920 O Street, Sacramento.
The Minton Co., Palo Alto.
Magnussen & Petersen, San Francisco.

Chas. Unger, 4532 T St., Sacramento
Frank Cress, Crockett.
Fred H. Betz, 1017 43rd St., Sacramento.

Plumbing
George A. Schuster, 4712 Grove St., Oakland.

W. T. Kinder, Napa.
Alm & Ames, Calistoga.
Woodland Plumbing & Supply Co., Woodland.
Miller Hays Co., Grant and Weber Sts., Stockton.

Heating
George A. Schuster, 4712 Grove St., Oakland.
Pacific Heating & Ventilating Co., Oakland.
Alm & Ames, Calistoga.
Woodland Plumbing & Supply Co., Woodland.
Miller Hays Co., Grant and Weber Sts., Stockton.

Electrical Work
Con Franke, 748 E Weber St., Stockton.
Collins Electrical Co., 703 E Market St., Stockton.
Bids are being taken for a general contract with separate bids for plumbing, heating and electrical work. Bids are to be opened Nov. 24, 8 P. M.

Plans Being Figured—Bids Close Nov. 19, 2:30 P. M.
ENTRANCE Cost, \$1250
SAN FRANCISCO.
Construct iron and glass entrance at west side of Grant school.
Owner—City and County of San Francisco, S. J. Hester, secretary, Bd. of Public Works.
Architect—Bureau of Architecture (C. H. Sawyer, chief), 2nd floor, City Hall.

Bids will be received by the Board of Public Works. Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Deposit of \$5 required for plans obtainable from the Bureau.

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Specifications Being Written.
EQUIPMENT Cost, \$—
BERKELEY, Alameda County, Calif.
Franklin School.
Furnish and install equipment for heating plant.
Owner—Berkeley Board of Education.
Engineer—Frank Thomas, Supt. Bldg. & Grounds, Berkeley Public School Dist., Berkeley.
Bids will be advertised for within a week.

Plans Completed.
SCHOOL Cost, \$15,000
JAMESTOWN, Tuolumne Co., Cal.
One-story class C concrete grammar school (3 classrooms).
Architect—Davis-Pearce Co., Grant & Weber Sts., Stockton.
Bids will be advertised shortly.

Date Of Opening Bids Postponed Until No. 13, 2 P. M.
SCHOOL Cost, \$210,000
LOWELL, Arizona.
Class B reinforced concrete and masonry grammar school (auditorium to seat 1000).
Owner—Lowell Grammar School District (C. E. Witte, Clerk).
Architect—Lescher & Mahoney, First National Bank of Arizona Bldg., Phoenix.
Plans obtainable from Architects upon deposit of \$25.

SEBASTOPOL, Sonoma Co., Cal.—C. W. Shatto, 203 West St., Sebastopol at \$26 awarded contract by Herman Nauman, clerk, Sebastopol Union Grammar School District, for roofing primary school. Other bidders were: Jack Johnson Roofing Co., and Colombo Lumber Co., Sebastopol.

Bids Opened.
SCHOOL Cost, \$35,000
UPPER LAKE, Lake Co., Cal.
One-story reinforced concrete high school (five classrooms and auditorium).
Owner—Upper Lake Grammar School District.
Architect—Wm. Herbert, Rosenberg Bldg., Santa Rosa.
Following is a complete list of bids:
Petaluma Const. Co., Petaluma \$29,990
C. W. Gibson, Ukiah..... 30,373
Chas. Unger, Sacramento..... 30,543
Gaubert Bros., Oakland..... 30,660
Louis Halvorsen, Santa Rosa..... 31,412
A. O. Lightfoot, Upper Lake..... 32,259
J. M. Evans & Son, Sacramento 32,877
Three lowest bids held under advisement.

Plans Being Figured—Bids Close November 14.
ADDITION Cost, \$—
SANTA BARBARA, Santa Barbara Co., Cal.
Three-room addition to school.
Owner—Hope School District.
Architect—Henry W. Howell, 19 E. Canon Ferdiola, Santa Barbara.
Plans obtainable from Marie F. MacQuiddy, Clerk.

Plans Being Figured—Bids Close Nov. 17, 7 P. M.
ADDITION Cost, \$—
VINELAND, Kern Co., Cal.
School Addition.
Owner—Vineland School District, A. J. Fowler, clerk.
Architect—Clinton Nourse, 617 West Montecito, Sierra Madre, Calif.
Certified check or bidder's bond of 10%, payable to clerk, required with bid. Bond of 75% required of the successful contractor. Plans obtainable from clerk at Vineland.

Plans Being Figured—Bids Close Nov. 17, 8 P. M.
FIXTURES Cost, \$—
BERKELEY, Alameda Co., Cal. Ward St. bet. California and Sacramento Streets.

Finish hardware and electric fixtures for Longfellow school.
Owner—Berkeley School Dist., Clara E. Andrews, secretary, Board of Education.
Architect—James W. Placheck, Mercantile Bank Bldg., Berkeley.
Specifications obtainable from the architect.

Contract Awarded.
SCHOOL Cost price, \$21,453
OAKLAND, Alameda Co., Cal. Tenth St. bet. Brush and West Sts.
Two-story class C brick school (auditorium).
Owner—Oakland Japanese Methodist Church.
Architect—Louis M. Upton, 110 Sutter St., San Francisco.
Contractor—F. W. Thaxter, 6452 Hille-gass, Berkeley.

Plans Being Completed.
SCHOOL Cost, \$650,000
SANTA BARBARA, Cal.
Two-story reinforced concrete school buildings (terra cotta, tile roof).
Owner—Santa Barbara Union High School District.
Architect—W. H. Weeks, 111 Sutter St., San Francisco; 1736 Franklin St., Oakland, and Bank of Italy Bldg., San Jose.

Bids will be taken in two or three weeks.
There will be an administration and classroom building gymnasium and a shop building; reinforced concrete construction with terra cotta tile roofing.

Preparing Working Drawings.
GYMNASIUM Cost, \$50,000
KENTFIELD, Marin Co., Cal.
Gymnasium (wood frame, roof trusses over gymnasium proper carried on steel columns) planting lawns and shrubbery, etc., at college grounds.
Owner—Marin Junior College Dist.
Architect—A. A. Cantin, 544 Market St., San Francisco.
Bids will be taken in 30 days.

ALBANY, Alameda Co., Cal.—City defeats proposal to issue bonds of \$130,000 to finance elementary school improvements.

SANTA ROSA, Sonoma Co., Cal.—Walter L. Proctor, 12 W. 10th Street, desires sub-bids in connection with the construction of a one-story brick academic building to contain nine classrooms, assembly hall and offices. It is to be construction for the Santa Rosa Junior College District, from plans prepared by Architect W. H. Weeks, 111 Sutter St., San Francisco. Cost \$40,000 (1st unit). Bids are to be opened Nov. 17, 7:30 P. M.

SACRAMENTO, Calif.—Charles C. Hughes, city superintendent of schools in a report compiled for the Board of Education, estimates that a bond issue of \$1,750,000 will be required for the erection of new schools and additions and improvements to standing school buildings. Construction recommended under the proposed bond issue follows:

1. Junior high school to relieve the congested conditions in the David Lubin School, 36th and K Sts. Building, \$340,000 and site, \$50,000.
2. Junior high school at Sacramento Blvd. and Tenth Ave. to relieve the congestion in the Stanford Junior High School and the Donner and Bret Harte schools. Building, \$340,000 and site, \$35,000.
3. Junior high school to relieve the Sierra, Newton Booth, Bret Harte and Crocker schools of the seventh and eighth grades. Building, \$340,000 and site, \$60,000.
4. New building at Tenth and P Sts. on the site of the present Harkness School, to house the Sacramento Continuation High School and the

Sacramento Evening High School, \$225,000.

5. Addition of ten classrooms to the Crocker School, 16th St. and Vallejo Way, \$100,000.
6. Addition to the John Muir School on Riverside Blvd., \$50,000.
7. Addition of classroom building to the Sacramento Junior College, \$250,000.

SAUSALITO, Marin Co., Cal.—Until November 17, 8 P. M., bids will be received by S. G. Ratto, Clerk, Sausalito School District, to construct retaining wall at Central School Grounds. Certified check or bond 10% payable to Board of Trustees required with bid. Plans obtainable from clerk at 911 Water St., Sausalito.

EUREKA, Humboldt Co., Cal.—Newton Ackerman, architect, 102 W. Fourth St., Eureka, has filed an application with the Board of Education seeking the commission to prepare plans and specifications for the proposed swimming pool to be constructed for the school department.

Plans Being Figured—Bids Close Dec. 2, 2 P. M.
GYMNASIUM Cost, \$—
SAN JOSE, Santa Clara Co., Calif.
State Teachers' College Grounds. Reinforced concrete men's gymnasium.
Owner—State of California.
Architect—State Department of Public Works, Division of Architecture, Public Works Bldg., Sacramento.

Bids are being received for a general contract with separate bids for mechanical work, comprising plumbing, heating, ventilating and electric work. Separate bids will also be considered for electric work and for plumbing, heating and ventilating work. Combined bids will also be received on all four branches of the work.

Previous bids on this project were rejected, the low bidders under the previous call being: General Work, H. L. Petersen, 731 Treat Ave., San Francisco, \$114,826; Plumbing, Heating and Ventilating, Hatley & Hatley, 1719 10th St., Sacramento, \$26,488; Electrical Work, Gilbert Bros., 286 W. Santa Clara St., San Jose, \$7403; Mechanical Work, Complete, Latourrette-Fical Co., 907 Front St., Sacramento, \$35,772.

Contract Awarded.
SCHOOL Cost price, \$29,999
UPPER LAKE, Lake Co., Cal.
One-story reinforced concrete high school (five classrooms and auditorium).
Owner—Upper Lake Grammar School District.
Architect—Wm. Herbert, Rosenberg Bldg., Santa Rosa.
Contractor—Petaluma Const. Co., Petaluma.

BANKS, STORES & OFFICES

Plans Being Figured.
MARKET Cost, \$120,000
LOS ANGELES, Cal. NE Beverly Blvd. and Kingsley Drive.
One-story and basement Class A reinforced concrete market and garage (176x143 ft.).
Owner—Gore Bros.
Architect—Bulch & Stanbery, Film Exchange Bldg., Los Angeles.
Lessee—Union Public Market.

Planned.
ALTERATIONS Cost, \$—
SAN FRANCISCO. 209-229 Golden Gate Avenue.
Alterations to building for offices, etc.
Owner—Warner Bros., 243 Golden Gate Ave.
Architect—G. Albert Lansburgh, 140 Montgomery St.

Contract Awarded.
MAHKEP Cnst. \$25,000
SACRAMENTO, Sacramento Co., Cal.
2500 28th Street.

One-story frame and stucco drive-in market (80x160-ft.; L-shaped).
Owner—Kaiser Bros., 16th and P Sts., Sacramento.

Architect—Jens C. Petersen, 826 26th St., Sacramento.
Contractor—F. Kaiser, % owners.

Sub-Pids Being Taken.
BANK Cnst. \$—
OAKLAND, Alameda Co., Cal. NE 14th and Fruitvale Aves.
One-story concrete bank (100x90-ft.)
Owner and Builder—Floyd Steel, 57 Sutter St., San Francisco.
Architect—George de Colmesnil, Nevada Bank Bldg., San Francisco.
Lessee—Bank of Italy.
A portion of the building on the property is to be wrecked.

Plans Completed.
SACRAMENTO, Sacramento Co., Cal. No. 818-20 K Street.
Three-story Class A reinforced concrete and steel store (600x160 ft.)
Owner—S. H. Kress & Co., 621 South Broadway, Los Angeles.

Architect—John Fleming, 1031 South Broadway, Los Angeles.
Present building on site to be razed.
Bids will be taken within one week.

Plans Being Prepared.
BANK BLDG. Cnst. \$100,000
CHICO, Butte Co., Cal. Broadway and Second Sts. (95x51-ft.).
One-story reinforced concrete bank (steel trusses, marble work, etc.)
Owner—Bank of Italy.
Architect—H. A. Minton, Bank of Italy Bldg., San Francisco.

Bids will be taken in about 30 days.
There will be a space of 21 ft. between the ceiling and the floor and the general interior will be of marble and acoustical plaster, with low type counter screens of bronze.
The general construction will be of concrete, with steel trusses instead of pillars to support the roof.

Completing Plans.
REMODELING Cnst. \$—
SAN FRANCISCO, 526 California St.
Remodel interior of bank.
Owner—San Francisco Bank, 526 California St.
Architect—Ward & Blohme, 24 California St.
New counters, floors, etc. Bids will be taken in one week.

Property Purchased.
OFFICES Cnst. \$—
SAN MATEO, San Mateo Co., Cal. E and Third Ave. (110-ft. frontage).
Two-story brick office building.
Owner—Bank of Italy.
Architect—H. A. Minton, Bank of Italy Bldg., San Francisco.
Proposed project is in a very preliminary stage.

Contract Awarded.
STORE Cnst. \$150,000
LOS ANGELES, Cal. NE Wilshire Blvd. and Westmoreland
Two-story Class B concrete and brick store and loft (100x165 feet).
Owner—Westmoreland Bldg. Co., Ltd.
Architect—Walker & Eisen, Western Pacific Bldg., Los Angeles.
Contractor—Robert E. Millsap, Pacific National Bank Bldg., Los Angeles.

Plans Being Completed.
MARKET Cnst. \$120,000
LOS ANGELES, Cal. NE Beverly Blvd. and Kingsley Drive.
One-story and basement Class A reinforced concrete market and garage (176x143 feet).

Owner—Gore Bros.
Architect—Balch & Stanbery, 61m Exchange Bldg., Los Angeles.
Lessee—Union Public Market Co.

THEATRES

Grading Contract Awarded.
THEATRE Cnst. \$250,000
SAN FRANCISCO, Ocean Ave. bet. Fairfield and Lakewood.
Class A steel frame and reinforced concrete theatre and (6-8) stores; theatre seating 1800.
Owner—Samuel Levin.
Architect—Miller & Pfueger, 530 Market Street.
Contractor—H. L. Peterson, 731 Treat Avenue.

Grading—Sibley Grading & Teaming Co., 165 Landers St.
Construction has just started.
As previously reported, structural steel awarded to Földen Gate Iron Works, 1541 Howard St.; heating, ventilating and electrical bids are held under advisement.
Structure will have a seating capacity of 1800 and contain six or eight stores. It will have a frontage of 182 feet on Ocean Ave.

Plans Being Re-figured.
ALTERATIONS Cnst. \$60,000
OAKLAND, Alameda Co., Calif. 5631 College Ave.
Alterations to two-story class C brick theatre.
Owner—Up Town Theatre, premises.
Architect—A. A. Cantin, 544 Market St., San Francisco.
New bids will be called immediately.

Completing Plans.
THEATRE Cnst. \$300,000
PHOENIX, Arizona. First and Washington Sts.
Two-story Class A reinforced concrete theatre (150x200 ft. (to seat 1700).
Owner—Fox West Coast Theatres, Los Angeles.
Architect—S. Chas. Lee, 2404 W-7th St., Los Angeles.
Bids will be taken in one week.

LOS ANGELES, Cal.—Architect L. G. Sherer, 1510 N. Vermont Ave., is preparing preliminary sketches for a new theatre building to be erected in Los Angeles for the Los Angeles Civic Opera House.

Contract Awarded.
ALTERATIONS Cnst. \$25,000
SANTA ROSA, Sonoma Co., Cal. 309-117 Fourth St. (Strand Theatre).
Alterations and additions to theatre (to seat 600).
Owner—Dan Tocchini, Santa Rosa.
Architect—Not Given.
Contractor—Walter Proctor, 12 W 14th St., Santa Rosa.

WHARVES AND DOCKS

OAKLAND, Alameda Co., Cal.—Until Nov. 10, 4:30 P. M., bids will be received by City Port Commission, 424 Oakland Bank Bldg., for laying track materials to serve 348 ft. extension at Outer Harbor Terminal. Plans obtainable from Commission.

SAN FRANCISCO—State of California at the November 4 election authorized the issuance of \$10,000,000 in bonds to finance improvements on the San Francisco Harbor, involving: Eight modern concrete piers north of the Ferry Building, \$5,200,000.
One new concrete pier at China Basin, \$900,000.
Two bulkhead wharves in the Central Basin, \$500,000.
Islals Creek development, including seawall, piers and wharves and grain terminal extension, \$1,500,000.

Refrigeration terminal extension, \$500,000.
Belt Railroad extension across Third St. bridge to China Basin, Central Basin and Islals Creek, \$400,000.
Other miscellaneous construction, \$1,000,000.

Bids for these improvements will be asked by the State Harbor Commission, Ferry Building, San Francisco, Frank G. White, chief engineer. All construction will be officially advertised for bids in Daily Pacific Builder.

Plans Being Completed.
PIER Cnst. \$—
SAN FRANCISCO, Pier No. 23.
Reinforced concrete pier (150x800-ft.; green piers, concrete jacket and reinf. concret dock).
Owner—State Board of Harbor Commissioners, Ferry Bldg.
Engineer—Frank White, Ferry Bldg.

MISCELLANEOUS CONSTRUCTION

OAKLAND, Cal.—V. Di Zillo, 1022 53rd St., Oakland, at \$4330 awarded contract by city council to construct reinforced concrete retaining wall with guard railing in portion of Hopkins Street, between High St. and Green Acre Rd. Bid follows: (a) concrete work including excavating, backfilling and drain, \$15.50 cu. yd.; (b) reinforcing steel bars, \$4.04 lb.; (c) guard rail with wire 176 ft. long and 6 ft. high, \$300.

SAN FRANCISCO—City rejects proposal to issue bonds of \$1,000,000 to finance construction of a municipal incinerator.

SAN FRANCISCO—City rejects proposal to issue bonds of \$1,000,000 to finance purchase of additional lands and improvement of the Municipal Airport.

SACRAMENTO, Cal.—Until Nov. 6, 5 P. M., bids will be received by H. G. Denton, city clerk, for grading and leveling runway areas at Municipal Airport. Certified check 10% payable to City Controller required with bid. Plans on file in office of clerk. Fred J. Klaus, city engineer.

Contract Awarded.
STATION Cont. price, \$3445
BAKERSFIELD, Kern Co., Cal. Kern River Park.
Comfort station and sulphur water fountain.
Owner—County of Kern, F. E. Smith, county clerk.

Architect—Edwin J. Symmes, Bakersfield Bldg.
Contractor—Peterson & Elssler, 2527 L St., Bakersfield.
Following is a complete list of bids: Peterson & Elssler, Bakersfield \$3,445
W. K. Michael, Bakersfield 3,549
Currie & Dulkar, Bakersfield 3,522
C. L. Stanley, Bakersfield 3,734
F. R. Greenough, Bakersfield 3,925
Operspan & Mullett, " 4,950

SAN FRANCISCO—Until November 12, 2:30 p. m., bids will be received by Veda B. Young, secretary, Playground Commission, 376 City Hall, for grading playground site at junction of Ocean Ave. and Aptos Ave., adjoining Aptos school, now in course of construction. Certified check 10% payable to secretary of commission required with bid. Bond of 50% of contract price required of the successful bidder. Specifications obtainable from secretary.

Engineering News Section

BRIDGES

SANTA ANA, Orange Co., Cal.—W. M. Ledbetter & Co., 5351 Valley Blvd., Los Angeles, awarded contract by county supervisors at \$5280 (using redwood) for constructing a wooden pile bridge over Coyote Creek, on the Buena Park-La Habra Road, involving: 2786 ft. B. M. redwood; 21,102 ft. B. M. Douglas fir (untreated); 18,882 ft. B. M. redwood; or 20,592 ft. B. M. Douglas fir (creosoted); 1470 lin. ft. piling redwood or creosoted Douglas fir; 2100 lbs. bolts, rods and hardware; 600 cu. yds. excavation.

MARIN COUNTY, Cal.—Until November 26, 2 P. M., bids will be received by State Highway Commission to construct bridge across Richardson Bay and over tracks of the Northwestern Pacific Railroad at Manzanita, consisting of one 56 ft. plate girder lift span on concrete piers with pile foundations, on 45 ft. steel stringer span on concrete bents with pile foundations and approximately 2340 feet of timber trestle on pile and frame bents.

See call for bids under official proposal section in this issue.

LOS ANGELES, Cal.—Until November 17, 2 P. M., bids will be received by county supervisors to construct wooden bridge in Ellis Lane over Waton Wash, involving (1) building complete of bridge, using creosoted Douglas fir; (2) building complete of bridge, using structural redwood; (3) cost per 1000 B. M. for additional Douglas fir; (4) cost per 1000 B. M. for additional structural redwood; (5) cost per cubic yard for additional class "B" concrete. Plans on file in office of clerk.

YUBA CITY, Sutter Co., Cal.—M. A. Jenkins, 3560 Y St., Sacramento, at \$8338 and \$20 cu. yd. for additional concrete for footings, if needed, awarded contract by Joint Highway District No. 12, to construct concrete trestle bridge 120 ft. in length, over Main Drainage Canal of Reclamation District No. 1500. Complete list of bids follows:

M. A. Jenkins.....	\$ 8,338	\$20
Bodenhamer Constr. Co.	9,150	30
Ralph Hunter.....	9,500	24
F. A. Holdener.....	9,545	33
Lindgren & Swinerton.....	9,995	35
J. E. Johnston.....	11,500	35

M. A. Jenkins at \$2330 and \$20 for additional concrete for footings, if required, to construct concrete bridge 20 ft. in length over Central Irrigation Canal of Sutter Mutual Water Company, near town of Robbins. Complete list of bids follows:

M. J. Jenkins.....	\$2330	\$20
Bodenhamer Constr. Co.	2000	30
Ralph Hunter.....	2750	24
F. A. Holdener.....	2800	33
Lindgren & Swinerton.....	2100	35
J. E. Johnston.....	3225	35
Griffith & Gunther.....	2252	32.18
R. B. McKenzie, Gerber, Calif.	bids on both structures or none, at \$11,000 and \$20 for additional concrete, if required.	

PLACER COUNTY, Calif.—State Highway Commission seeks authorization of Railroad Commission to

construct upgrade crossing under Southern Pacific tracks at New England Mills. Estimated cost, \$45,296. Will be 100 feet south of the existing crossing.

SACRAMENTO, Cal.—M. A. Jenkins, 3560 Y St., Sacramento, at \$1537 awarded contract by county supervisors to reconstruct East fender of Walnut Grove bridge.

SAN FRANCISCO—Golden Gate Bridge and Highway District votes bonds of \$35,000,000 to finance construction of bridge over Golden Gate Strait together with connecting roads and appurtenances. The district embraces a portion of the counties of Mendocino and Napa and all of the counties of Del Norte, Sonoma, Marin and San Francisco. Directors of the district and the counties represented by each are: Henry Westbrook, Jr., Del Norte county; H. H. Trumbull, Marin county; A. R. O'Brien, Mendocino county; Thomas Maxwell, Napa county; C. A. Henry, Warren Shannon, W. P. Stanton, Francis V. Keesling, R. J. Welsh, all of San Francisco county; Frank P. Doyle and Joseph A. McMin, Sonoma county.

Officers of the district are: Wm. P. Filmer, San Francisco, president; Alan MacDonald, San Francisco, general manager; George F. Harlan, Sausalito, attorney; John R. Ruckstell, San Francisco, auditor, and W. W. Felt, Jr., San Francisco, secretary.

Joseph B. Strauss is chief engineer of the district and chairman of the engineering board. Other members of the engineering board are: O. H. Ammann, bridge engineer, consultant; Chas. Derleth, Jr., bridge engineer, consultant; Leon S. Moisseiff, bridge engineer, consultant; Sydney W. Taylor, Jr., consultant on traffic; Andrew C. Lawson, consulting geologist. Offices of the Golden Gate Bridge and Highway District are located at 690-A Market St., San Francisco.

LOS ANGELES, Cal.—Byerts and Dunn, 7908 Santa Monica Blvd., at \$19,970 awarded contract by county supervisors to construct reinforced concrete bridge in Pomona Blvd. over Alhambra Wash.

SANTA BARBARA, Cal.—Roy L. Richardson, Santa Barbara, at \$3345 awarded contract by county supervisors to construct reinforced concrete bridge over San Pedro Creek in Third Road District on Stow Canyon Road.

DREDGING, HARBOR WORKS & EXCAVATIONS

LOS ANGELES, Cal.—Until 3 P. M. Dec. 3, bids will be received by the office of the U. S. Engineer, 751 South Figueroa St., Los Angeles (R.A. 2884) for repairing the breakwater at Long Beach Harbor, in accordance with plans and specifications which may be obtained at the office of W. H. Lanagan, Major, Corps of Engineers, Dist. Engineer.

SAN FRANCISCO.—See "Wharves and Docks," this issue. Bonds of \$10,-

000,000 voted by State of California for improvements to San Francisco harbor.

LOS ANGELES, Cal.—County Flood Control Engineer E. C. Eaton is completing plans and bids will be asked in about 30 days for straightening lower channel of the San Gabriel River at its outlet into Alamitos Bay.

WATSONVILLE, Santa Cruz Co., Cal.—Karstedt Brothers, Watsonville, awarded contract by State Division of Flood Control to clear Pajaro river of willow growth and other debris in the river bed. Santa Cruz county will pay \$750 of total cost; \$750 additional from public subscription and \$1500 by the state.

SACRAMENTO, Cal.—J. R. Reeves, 12th St. and the American River, at \$10 cu. yd. submitted low bid to city council to excavate continuous drainage canal at Sacramento Municipal Airport, involving 20,000 cu. yds. Complete list of bids, all taken under advisement, follows:

J. R. Reeves.....	\$10
M. J. Treaster.....	125
A. Teichert.....	1225
Harry Gould.....	13
Lilly, Willard & Biasotti.....	14
Paris Bros.....	154
Finnell Co.....	20
Weston & Kimmar.....	21

Referred to City Engineer Fred J. Klaus for recommendation of award.

SACRAMENTO, Cal.—Until November 19, 3 P. M., under Circular Proposal No. 31-122, Specifications No. 2507, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, for raising existing levee along the west side of the Yolo By-Pass beginning at a point near the pump house at the southeast corner of Reclamation District No. 2068, about 6 miles southerly of Lolano Station on the Sacramento Northern Railroad and extending south for a distance of about 1 mile to the north levee of Liberty Island Reclamation District. The levee is along the easterly boundary of the lands of Sullivan, Sullivan & Roche. The quantity of material to be removed is approximately 157,000 cubic yards. Specifications obtainable from above.

SACRAMENTO, Cal.—D. A. Foley Construction Co., 716 Grant Bldg., Los Angeles, at \$23,341.50 (9.45c cu. yd.) submitted low bid to U. S. Engineer Office, Sacramento, under Circular Proposal No. 31-97, Specifications No. 2470, for raising existing levee along the westerly side of Yolo By-Pass, beginning at a point about 0.9 mile southeasterly of "Yolano" station on the Sacramento Northern Railroad, and extending to the Pump House at the southeast corner of Reclamation District No. 2068. Project involves 247,000 cu. yds. embankment. Taken under advisement.

SANTA MONICA, Los Angeles Co., Cal.—Taggart Aston, consulting engineer, 733 Rives-Strong Bldg., Los Angeles, preparing plans for pontoons to be used in constructing the cribs for the proposed 2000-ft. breakwater at Santa Monica which is being built by

the Santa Monica Harbor Co., Ltd. Bids will be taken within a week. Construction will probably occupy three weeks after which the company will be ready to advertise for bids for the moulding and placing of the cribs. The franchise awarded some time ago, calls for a breakwater about 2000 ft. from the shore, 15 ft. wide at the top and 30 ft. at the base. In an approximate water depth of 30 ft., the wall will rise 8 ft. above sea level on one side and 14 ft. on the other. The specified length is 2000 ft., the builders having an option to build a first unit of 1000 ft. at once and adding the second 1000 ft. within five years. The end of the breakwater is to be 350 ft. out from the southwest corner of the municipal pier, a pedestrian extension of the pier to be carried out within 120 ft. of the breakwater. A suspension bridge will connect the two, contract for the extension and bridge having been awarded to W. G. Murdoch as previously noted. The franchise also specifies landing piers and other mooring structures for the accommodation of small pleasure craft. Aston's plans call for construction by hoist of combed boxes of reinforced concrete 100 ft. in length, to be moulded at Los Angeles harbor and towed to their position in Santa Monica Bay. They will be sunk in approximately 25 ft. of water by pumping sand into the hollow concrete units. Each box will weigh 5500 tons and will stand 24 ft. above the water line. The top is designed with concrete steps, or seats, to accommodate spectators at regattas. Ornamental lighting and other features are included.

IRRIGATION PROJECTS

EL NIDO, Merced Co., Cal.—Election will be held November 17 in El Nido Irrigation District to vote bonds of \$135,000 to finance construction of irrigation works, involving:

- (1) 12 miles of main canal, involving 150,000 cu. yds. canal excav., 65,000 sq. ft. 2-in. concr. lining;
- (2) 15 miles of lateral canals, involving 120,000 cu. yds. canal excavation;
- (3) construction of 24-in. to 48-in. syphons with headwalls, bridges, drops, stop-gates and side-gates, etc.

A. Blakesley of the Merced Irrigation District is engineer for the district. W. A. Wright, secretary of the district.

STREET LIGHTING SYSTEMS

VISALIA, Tulare Co., Calif.—Until November 17, 7:30 P. M., bids will be received by Ida Markham, city clerk (137-C) to install ornamental electrolier system with 51 two-light standards, together with underground system in portions of North and South Locust St.; North and South Cook St., etc. Standards of Union Metal Mfg. Company's Design No. 2281. 1911 Act. Bond Act 1915. Cert. check 10% payable to city required with bid. Plans on file in office of clerk.

SOUTH SAN FRANCISCO, San Mateo Co., Cal.—City Engineer George A. Kneese instructed to complete specifications for the installation of an electrolier lighting system in Grand Ave. Two light standards will be installed.

MACHINERY AND EQUIPMENT

HOLLISTER, San Benito Co., Cal.—City trustees contemplate purchase of a new motor truck with dump body, an allowance to be made for

the truck on hand and no longer required by the city.

DENVER, Colo.—Until 2 P. M., Nov. 17, bids will be received by the Chief Engineer of the Bureau of Reclamation, 1441 Welton St., Denver, for furnishing and delivering f.o.b. cars (at point to be stated) 1 traveling crane, capacity 20 tons, with motor-operated hoist and hand operated bridge and trolley, complete. Proposal guaranty, 10%.

EL SEGUNDO, Los Angeles Co., Cal.—Until 7:15 P. M., Nov. 26, bids will be received by the city council for the purchase of a 12-ton, 3-wheel, Buffalo-Springfield gasoline roller, No. 3484, with pressure scarifier attached, which is no longer needed by the city. Certified check or bond, 10%. Victor D. McCarthy, city clerk.

MARE ISLAND, Calif.—Until November 26, under Specification No. 6310, bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., to furnish 40-ton electric gantry crane and runway at Mare Island Navy Yard. Specifications obtainable from above office and from Commandant at the Mare Island Navy Yard.

INDIO, Riverside Co., Cal.—Until 8 P. M., Nov. 17, bids will be received by the city council of Indio, at the office of the city clerk, Iona T. MacKenzie, for furnishing a motor grader and scarifier, attachment and cab, with ten foot blade. Weight not less than 12,800 pounds. Certified check for 10% must accompany each bid.

WASHINGTON, D. C.—See "Government Work and Supplies," this issue. Bids wanted for miscellaneous machinery and equipment by the Bureau of Supplies and Accounts, Navy Department.

DENVER, Colo.—Until 2 P. M., Nov. 17, bids will be received by the Chief Engineer, Bureau of Reclamation, Denver, for furnishing one dragline excavator, capacity $\frac{3}{4}$ -yd., gasoline extension, 24-in. caterpillar treads, with one Pace class C bucket, complete, f.o.b. cars at factory shipping point. Bids to state price per day for services of an erecting engineer. Time of delivery is set for 35 calendar days after receipt by contractor of notice of award. Where time of delivery specified by bidder is greater than that time, each calendar day in excess thereof will be evaluated at \$20 and bids will be considered for award of contract on this basis. Proposal guaranty 10%.

EL SEGUNDO, Los Angeles Co., Cal.—Until 7 P. M., Nov. 12, bids will

be received by the city council for the following equipment:

- (1) one 1½-ton capacity, closed cab, automobile truck with dual rear wheels and two yard garbage dump body, equipped with hand-hoist;
 - (2) one 1½-ton capacity, closed cab, automobile truck with dual rear wheels and one and one-half yard dump body equipped with hand-hoist.
- All equipment shall be f. o. b. El Segunado, Calif., and bidders shall state within what time delivery can be made. Certified check or bond, 10% Victor D. McCarthy, city clerk. R. T. Hutchins, city engineer.

RAILROADS

YOLO-SOLANO COUNTIES, Cal.—Sacramento Northern Railway, a subsidiary of the Western Pacific, has filed with the Interstate Commerce Commission a brief in support of its application for authority to construct an extension of the Holland line to serve the contiguous agricultural territory in Yolo and Solano counties. The extension will cost \$735,000, according to tentative estimates.

SAN FRANCISCO—See "Wharves and Docks," this issue. Bonds of \$100,000,000 voted by State of California for improvements to San Francisco harbor.

OAKLAND, Cal.—Until November 10 4:30 p. m. (time extended from November 3), bids will be received by G. B. Hegardt, secretary, City Port Commission, 424 Oakland Bank Bldg., for laying railroad tracks east of the 348 feet extension to the municipal wharf. Certified check 10% required with bid. Specifications obtainable from secretary on deposit of \$5, returnable.

FIRE ALARM SYSTEMS

OAKLAND, Cal.—Until Nov. 13, 12 noon, bids will be received by C. Merritt, city clerk, to furnish and install conduit for traffic signal cable. Specifications on file in office of clerk. Walter N. Frickstad, city engineer.

SALINAS, Monterey Co., Cal.—City council will ask bids at once to install fire signals in connection with the present automatic traffic signal system. The city has provided \$1000 in the budget to cover the cost of the work. M. R. Keef is city clerk.

SACRAMENTO, Cal.—Gamewell Co. has submitted an estimate of \$232,000 to City Manager James Dean for the installation of a first class fire and police alarm system. The cost of the 125 new alarm boxes and the wiring, much of it in underground conduits, would amount to about

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\$200,000, according to the estimate, while a central alarm station could be built for \$12,000. The remaining \$20,000 would be used to put police signals in shape.

FIRE EQUIPMENT

UKIAH, Mendocino Co., Cal.—City trustees have authorized the purchase of 250 ft. 2½-in. and 100 ft. 1½-in. fire hose.

RED BLUFF, Tehama Co., Cal.—City Clerk Enville Spaulding has been instructed by the city council to secure prices on various sizes of hose for the fire department with a view to making a purchase.

RESERVOIRS AND DAMS

PUEBLO, Los Angeles Co., Cal.—Engineers of the Metropolitan Water District, under the direction of J. B. Bond, field engineer, are conducting tests of soil and rock in Brea Canyon east of Pueblo, as a site for proposed Colorado Aqueduct reservoir. A crew of 20 drillers and helpers are working in three 8-hour shifts. Drillings run from 40 to 300 ft.

PASADENA, Cal.—Geological surveys of Pine Canyon, the proposed site of the new \$10,000,000 dam which Pasadena will build, are being made by engineers and geologists headed by George W. Hawley, deputy state engineer in charge of dams. The party of engineers, which is quartered at the Aztec hotel, Monrovia, includes Chas. P. Berkey, Columbia University; Geo. D. Louderback, University of California; Ira A. Williams, Portland, Ore.; J. L. Savage, United States Bureau of Reclamation; George A. Elliott, San Francisco and M. C. Hillender, state engineer of Colorado.

FRESNO, Contra Costa Co., Calif.—City Engineer Leo O'Hara is preparing plans for spillway at municipal water reservoir. Will be cut through solid rock formation, involving removal of approximately 1,000 cu. ft. of rock.

ORANGE, Orange Co., Calif.—Bids will be called soon after January 1 for the construction of a dam in Santiago Canyon, Orange County, as a joint project of the Irvine Co. Irvine, The Carpenter Water Co., El Modena, and the Serrano Irrigation Dist. The Irvine Co. will pay one-half, and the others one-quarter each, of the total cost which is estimated at \$750,000 to \$800,000. Bonds have been voted by the districts and the issues \$200,000 each, have been sold to the First National Bank of Orange and the First National Bank of Santa Ana. A. Kempkey, Hobart Bldg., San Francisco, consulting engineering, is preparing the plans for the structure, which is to be an earth fill dam 125 ft. in height, with concrete spillway, etc., providing a 25,000-acre ft. storage reservoir. Financial details will be handled by Willard Smith, First National Bank of Orange (Orange 981).

BOULDER CANYON DAM—Bids for the construction of the "Hoover Dam" at the Boulder Canyon site will be asked about December 1 and opened about March 1, according to an announcement of the Secretary of the Interior. The latest information is that bids will be asked on the complete project after consultation with contractors of the country who are in a position financially to bid on such a project. The proposed work will involve driving of four tunnels on each side of the canyon through solid volcanic rock, each tun-

nel to be 50 ft. in diameter and approximately one mile long. These tunnels, together with coffer dams 80 ft. high above and below the stream, will divert the water during construction. Clearing of the site will involve removal of boulders and debris to a depth of about 100 ft. The dam, starting at bedrock, will be a concrete structure 650 ft. long at the base, sloping to a width of 45 ft. at the top, its ultimate heights to be 727 ft. At the highest point it will provide a 650-ft. span between the canyon walls, over which the transcontinental highway will pass. The tunnels will cost probably \$15,000,000 and the complete project between \$60,000,000 and \$70,000,000.

HAWTHORNE, Nevada—Bureau of Yards and Docks, Navy Department, Washington, D. C., will ask bids the latter part of December for the construction of a water reservoir at the Naval Ammunition Depot at Hawthorne; estimated cost \$150,000.

SACRAMENTO, Cal.—Until November 13, 3 p. m., under Proposal No. 31-133, Specifications No. 2539, bids will be received by U. S. Engineer Office, California Fruit Building, for drilling nine test holes at the site of the proposed Table Mountain Dam, located approximately 13 miles north of the town of Red Bluff, Tehama County. Specifications obtainable from above.

PIPE LINES, WELLS, ETC.

FRESNO, Fresno Co., Cal.—San Joaquin Light & Power Co., Power Bldg., Fresno, plans immediate construction of a natural gas pipe line from the Kettleman Hills to Fresno; estimated cost \$1,370,000.

SAN FRANCISCO.—Western Pipe & Steel Co., 444 Market St., at \$648,867, bidding on welded pipe, awarded contract by Board of Public Works to construct the Newark-San Lorenzo Pipe Line under Contract No. 122, Hetch Hetchy Project, involving 12.7 miles of pipe. Complete list of unit bids previously published.

COALINGA, Fresno Co., Cal.—City Clerk E. J. McCroskey instructed to ask bids to furnish 5000 ft. of 3-in. gas mains. Further mention will be made of this work.

VENTURA, Ventura Co., Cal.—Bids will be taken about Dec. 1 for the sale of a 50-year franchise for an 8-in. oil pipe line to be laid from the Ventura Ave. oil field through the city of Ventura to an anchorage in the harbor about 3800 ft. from shore. The application was made by the Associated Oil Co., which plans to expend about \$31,000. Work will start as soon as the franchise is granted.

LOS ANGELES, Cal.—Western Pipe & Steel Co., Los Angeles, was awarded contract by the city purchasing agent Oct. 30, at \$110,191.20 for welded steel pipe under Spec. 2213 in accordance with proposal 2, involving 6720 ft. 54-in. (41/32-in.), 1176 ft. 54-in. (5/16-in.), and 10,584 ft. 40-in., dipped in McEverlast, Inc., steel pipe coating.

LOS ANGELES, Cal.—Santa Fe Pipe & Steel Co. was awarded contract by the city purchasing agent Oct. 30 at prices shown below for wrought steel pipe under Spec. 2202. The items were:

- (1) One carload galv. wrought steel pipe, to be delivered at Los Angeles, approx. Jan. 1, as follows:
 - (a) 9000 ft. ¾-in. std. pipe, T. & C.;
 - (b) 3000 ft. 1-in. std. pipe, T. & C.;
 - (c) 1000 ft. 1¼-in. std. pipe, T. & C.;
 - (d) 500 ft. 1½-in. std. pipe, T. & C.;
 - (e) 1000 ft. 2-in. std. pipe, T. & C.;
 - (f) 200 ft. 3-in. std. pipe, T. & C.;
 - (g) 3500 ft. ¾-in. extra heavy pipe, with plain ends;
 - (h) 10,000 ft. 1-in. extra heavy pipe, with plain ends;
 - (i) 500 ft. 1½-in. extra heavy, T. & C.;
 - (j) 1000 ft. 2-in. extra heavy, T. & C.;
- (2) One carload galv. wrt. steel pipe, to be delivered at Los Angeles, approx. Feb. 1, 1931. Same quantities etc., as in item (1).
- (3) One carload galv. wrt. steel pipe, to be delivered at Los Angeles, approx. March 1. Same quantities, etc., as in item (1).
- (4) One carload galv. wrt. steel pipe, to be delivered at Los Angeles, approx. April 1. Same quantities, etc., as in item (1).
- (5) One carload galv. wrt. steel pipe, to be delivered at Los Angeles, approx. May 1. Same quantities, etc., as in item (1).
- (6) One carload galv. wrt. steel pipe, to be delivered at Los Angeles, approx. June 1. Same quantities, etc., as in item (1).

The unit prices of the successful bidder were:

Santa Fe Pipe & Supply Co. bid (1) \$6.04; (2) \$8.61; (3) \$11.66; (4) \$13.94; (5) \$18.75; (6) \$38.78; (7) \$5.03; (8) \$11.15; (9) \$19.77; (10) \$26.90.

SEWERS AND SEWAGE DISPOSAL PLANTS

BRAWLEY, Imperial Co., Cal.—Burns-McDonnell-Smith Engineering Corp., 422 Western Pacific Bldg., Los Angeles, has been retained by the city of Brawley to make a survey of the water system and sewage problem in order to prepare a report for the city council. It is probable that the \$180,000 bond issue will be re-submitted to the voters.

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FOR BRICK MORTAR, WHITE COAT AND SAND FLOAT FINISH

Sold by Representative Dealers Everywhere

LOS ANGELES, Cal.—City rejects proposal to issue bonds of \$6,000,000 to finance with a period of five years: (1) improvements to city drainage districts, \$3,300,000; (2) central outfall construction, \$100,000; (3) collection system, harbor district, \$309,140; (4) sewage treatment, \$1,152,600; (5) sewer systems in San Fernando Valley, \$1,000,000; (6) sewage treatment in San Fernando Valley, \$100,000; (7) Hyperion plant, \$275,000.

SAN FRANCISCO.—As previously reported, L. J. Cohn, 1 De Haro St., at \$11,961 submitted low bid to Board of Public Works to construct Army St. sewer between Pennsylvania Ave. and Mississippi St., involving:

363 lin. ft. 2-ft. 6-in. by 3-ft. 9-in. reinforced concrete sewer;

464 lin. ft. 2-ft. 6-in. by 3-ft. 9-in. reinf. conc. sewer exclusive of piles;

827 lin. ft. 6-in. V. C. P. underdrain covered with concrete or embedded in broken rock;

1 reinf. conc. special struc., exclusive of piles;

2 brick or concrete manholes; 1,300 lin. ft. wood piles, below cut-off in place.

Complete list of bids follows:

L. J. Cohn	\$11,961
E. J. Treacy	12,144
M. J. Lynch	12,914
P. McHugh	14,407
C. C. W. & H. H. Haun	14,369
J. Verano	15,062
C. B. Eaton	16,391

SAN FRANCISCO.—As previously reported, J. Verano, 1648 Grant Ave., at \$21,863 submitted low bid to Board of Public Works to improve Section C of Alameda Blvd. Project involves:

1,520 lin. ft. 6-in. open tile drain in broken rock;

60 lin. ft. 6-in. V. C. P. drain connections to manholes;

4,620 lin. ft. 8-in. V. C. P. sewer;

5,700 lin. ft. 12-in. do.;

900 lin. ft. 15-in. do.;

550 lin. ft. 18-in. do.;

120 lin. ft. 21-in. do.;

165 8x6-in. Y or T branches;

171 12x6-in. do.;

30 15x6-in. do.;

17 18x6-in. do.;

4 21x6-in. do.;

62 brick manholes;

54,000 gals. fuel oil forilling boulevard subgrade in place;

400 lbs. seed barley for slope planting in place.

Complete list of bids follows:

J. Verano	\$21,863
C. B. Eaton	22,134
E. J. Treacy	22,566
C. L. Harney	23,002
J. P. Holland	23,517
L. J. Cohn	23,862
C. B. Cowden	23,939
W. J. Tobin	24,350
A. G. Raisch	25,001
Meyer Rosenberg	25,719
Pacific States Const. Co.	26,898
C. C. W. and H. H. Haun	37,055

SAN DIEGO, Cal.—City council has authorized the city attorney to prepare resolution ordering plans for a sewage reclamation plant to be built in the eastern section of the city. The proposed plant is to be designed to handle 3,900,000 or more gallons of sewage per day.

BAKERSFIELD, Kern Co., Cal.—City council declares intention (609) to construct 6-inch cement concrete sanitary sewers in Public Imp. Dist. No. 609, including manholes and lamp-holes. 1911 Act. Hearing November 17. V. Van Riper, city clerk.

BERKELEY, Alameda Co., Calif.—Until Nov. 12, 10 A. M., bids will be received by Florence E. Turner, city clerk, to construct sewer in Indian

Rock Ave. from The Circle northerly to San Diego Road. Certified check 10% payable to city required with bid. Plans obtainable from city engineer on deposit of \$10, returnable.

LOS ANGELES, Calif.—John Artukovich, 4928 West Blvd., Los Angeles, at \$63,335 submitted low bid to Board of Public Works to construct sanitary sewer in 109th St. and McKinley Ave. Sewer District.

RICHMOND, Contra Costa Co., Cal.—A. W. Kitchen, 110 Market St., San Francisco, at \$16,730 submitted low bid to Berkeley Waterfront Co. to construct concrete storm sewer at Richmond Inner Harbor. Ralph Beebe, engineer, 1 Montgomery St., San Francisco. Healy-Thibbitts Construction Co., \$25,510; C. DeVelbiss, \$29,800 are other bidders. Taken under advisement.

SAN FRANCISCO.—Louis J. Cohn, 1 De Haro St., at \$11,961 awarded contract by Board of Public Works to construct Army Street sewer between Pennsylvania Ave. and Mississippi St. Complete list of bids, together with quantity of materials involved published in issue of Oct. 31.

MONTEREY, Monterey Co., Cal.—City council declares intention (3042) to construct 6-in. vitrified sewers in portions of Fillmore St., Grace St., Terry St., Parcel St., etc., together with 31 manholes, 4 inspection holes and 570 wye branches. 1911 Act. Bond Act 1915. Hearing Nov. 18. Clyde A. Dorsey, city clerk.

MISCELLANEOUS CONSTRUCTION

SAN FRANCISCO.—City rejects proposal to issue bonds of \$4,000,000 to finance purchase of additional lands and improvement of the Municipal Airport.

WATER WORKS

WASHINGTON, D. C.—Until Nov. 24, 10:30 A. M., under Schedule 2602, bids will be received by Purchasing Officer, Panama Canal, to furnish elevated steel tank. Specifications obtainable from above office and from Assistant Purchasing Officer, Ft. Mason, San Francisco.

GRANTS PASS, Ore.—George French Jr., P. O. Box 675, Stockton, Calif., at \$25,518 awarded contract by city council to construct Section No. 2 of water distributing system, materials to be furnished by city. Project involves: 10,000 cu. yds. excavation and backfill; 1500 lin. ft. 16-in. 10,000 lin. ft. 12-in., 1200 lin. ft. 10-in. 13,000 lin. ft. 8-in. and 24,000 lin. ft. 6-in. pipe; set 110 gate valves; set 93 hydrants; install 70,000 lbs. cast iron fittings.

Calvert, Schroeder & Lium, Grants Pass, Ore., at \$24,709.25 awarded contract for concrete lining the reservoir, under Section No. 3, involving concrete (175 barrels) 600 cu. yds.; reinforcing steel, 38,000 lbs.; two truss roofs, 66 ft. by 103 ft.

Baar & Cunningham, engineers, Spalding Bldg., Portland, Ore.

BRAWLEY, Imperial Co., Cal.—Burns-McDonnell-Smith Engineering Corp., 422 Western Pacific Bldg., Los Angeles, has been retained by the city of Brawley to make a survey of the water system and sewage problem in order to prepare a report for the city council. It is probable that the \$150,000 bond issue will be re-submitted to the voters.

SANTA CRUZ, Santa Cruz Co., Cal.—Until November 17, 2:45 p. m. (to be opened 3 p. m.), bids will be received by S. A. Evans, city clerk, to furnish and deliver between 8000 ft. and 10,000 ft. welded steel water pipe with minimum tensile strength of 50,000 lbs. per square inch, 20 ft to 40 ft. per section, and as more fully described in official proposal. Certified check 10% payable to city required with bid. Specifications obtainable from Roy Fowler, city engineer.

BREMERTON, Wash.—Beall Tank and Pipe Corp., C. A. Lagerstrom, Seattle representative, awarded contract by city council to furnish 2000 lin. ft. 24-in. and 100 ft. 16-in. welded steel pipe for water department.

OAKLAND, Cal.—Steel Tank and Pipe Co., Berkeley, at \$37.79 ft. (\$37,142) submitted low bid to East Bay Municipal Utility District to furnish 3500 lineal feet of ¾-inch thickness, 24-inch diameter electric welded sheet steel pipe for distributing system. Montague Pipe and Steel Co., San Francisco, at \$48.18 ft. (\$40,964) only other bidder. Taken under advisement.

HAYWARD, Alameda Co., Cal.—Castro Valley Water District votes bonds of \$150,000 to finance construction of a domestic water system to be served by the East Bay Municipal Utility District.

LOS ANGELES, Cal.—F. G. Cannon, 4271 Lincoln Ave., Culver City, at \$10,402.50 awarded contract by county supervisors for drilling 23 diamond drill holes at site of San Gabriel Dam No. 1.

SAN FRANCISCO.—Until November 21, 11 a. m., bids will be received by Constructing Quartermaster, Fort Mason, to furnish and install water softener at power plant of Letterman General Hospital. Date for opening bids was originally set for November 7, but this has been extended to November 21. Plans obtainable from Constructing Quartermaster at Fort Mason.

FRESNO, Fresno Co., Cal.—City votes bonds of \$2,500,000 to finance purchase of privately owned water system to operate as a municipal project.

LOS ANGELES, Cal.—Maguire & Yeung, 1909 Central Bldg., at \$3620 awarded contract by county for exploration tunnels for San Gabriel Dam No. 1.

COALINGA, Fresno Co., Cal.—Walles-Dove Corp., Los Angeles, at \$750 awarded contract by city council to clean entire interior surfaces of municipal hard water storage tank, by scraping, wire brushing and chipping where necessary, so that surfaces of tank, standpipe and underside of cover are ready for painting. After interior surfaces have been cleaned, contractor to apply one coat of Bitumastic Solution to the interior surfaces of tank and standpipe, and two coats of Bitumastic Solution to the underside of cover. After the interior surfaces have been coated, contractor to apply one hot coat of Bitumastic Enamel to the surfaces of tank and standpipe, furnishing all labor and material. General Paint Corp. only other bidder at \$1217.

SANTA ROSA, Sonoma Co., Cal.—Dixon Hardware Co., Santa Rosa, at \$1365.65 awarded contract by Santa Rosa City School District to install pumping plant at high school; capacity 4000-gals. per hour.

STREETS AND HIGHWAYS

LOS ANGELES, Cal.—A. D. Chalmers, 305 Cooldge Ave., Los Angeles, at \$109,645 submitted low bid to Board of Public Works to improve streets in Sunshine Terrace and Blue Canyon Drive Improvement District, involving in the main, grading, 110,200; 253,000 sq. ft. 6-in. concrete pavement, \$215; storm drain, \$2400; sanitary sewer, \$18,800.

Geo. R. Curtis Paving Co., 2440 E-26th St., Los Angeles, at \$44,610 submitted low bid to improve Westwood Blvd. from Santa Monica Blvd. to Pico Blvd., involving in the main, grading, \$3000; 196,515 sq. ft. 6-in. National asphalt conc. pave., \$168; curbs, walks, etc.

SAN FRANCISCO.—J. Verano, 1648 Grant Ave., at \$21,863 awarded contract by Board of Public Works to improve Section C of the Alenany Blvd. Complete list of bids, together with quantity of materials involved published in issue of Oct. 31.

SAN FRANCISCO.—Until Nov. 5, 2 P. M., informal bids will be received by Frank G. White, chief engineer, State Harbor Commission, Ferry Bldg. for laying basalt block roadway between Pier 50 and Pier 54, involving approximately 34,600 sq. ft., divided into two contracts:

- (a) for northerly 17,300 sq. ft.
 - (b) for southerly 17,300 sq. ft.
- Plans obtainable from engineer.

MILL VALLEY, Marin Co., Cal.—Town trustees declare intention (774) to improve portions of Elthedale Ave. involving grading, hyd. conc. concrete paving, hyd. conc. curbs, walks, 1911 Act. Bond Act 1915. Hearing Nov. 13. Will Falley, town clerk.

SAN DIEGO, Cal.—Bids will be taken probably within the next 30 days for the construction of a joint highway project of San Diego County and Imperial County, known as the Kane Springs-Jullian Road. The total length is 25.41 miles, of which 13.17 miles is located in Imperial County and 12.24 miles in San Diego County. The former section will cost \$164,136.58 and the latter \$124,405.60, or a total of \$288,542.18 for this contract. The state will pay one-third and the counties each one-third. The starting point is located in San Diego County about one-half mile east of The Narrows and the Imperial County terminus is located one-half mile north of the Kane Springs oil station. The proposed work will consist of grading to a width of 32 ft. and oiling to a width of 20 ft., with construction of over-flow sections and drainage structures. That the entire section will be oiled at this time, has not been definitely settled. A permanent pavement is planned as a later improvement. A reorganization of the present district will probably be effected this week when new directors and officers will be elected. Bids will go to the state highway department (C. H. Purcell, engineer) for approval, after which bids will be asked, about Dec. 1. E. R. Childs, San Diego County Surveyor, is the engineer in charge.

SACRAMENTO, Calif.—McGillivray Construction Co., P. O. Box 927, Sacramento, at \$1,173 awarded contract by county supervisors to construct asphalt macadam pavement or asphalt concrete pavement in 65th St.

OAKLAND, Cal.—Granfield, Farrar & Carlin, 67 Hoff Ave., San Francisco, at \$28,125 awarded contract by county supervisors to improve portion of the Haywood-Redwood Canyon Road (County Road No. 7355) from a point approximately 5 miles from Pinehurst Road for a distance of 2 miles, involving:

- (a) 80,000 cu. yds. grading;
- (b) 570 ft. 12-in. corr. culvert;
- (c) 700 ft. 15-in. corr. culvert;
- (d) 800 ft. 18-in. corr. culvert;
- (e) 70,000 cu. yds. overhaul.

A complete list of bids follows:

Granfield, Farrar & Carlin, (a) \$0.27; (b) \$2.20; (c) \$2.53; (d) \$3.50; (e) \$0.01. Total \$28,125.

J. L. Conner, P. O. Box 86, Monterey, (a) \$.29; (b) \$.12; (c) \$.245; (d) \$.282; (e) \$.01. Total \$29,079.

W. C. Colley, Berkeley, (a) \$.3250; (b) \$.190; (c) \$.22; (d) \$.265; (e) \$.08. Total \$31,338.

Larsen Bros., Galt, Calif., (a) \$.32; (b) \$.235; (c) \$.275; (d) \$.320; (e) \$.01. Total \$32,124.50.

M. J. Bevan, Elks Bldg., Stockton, (a) \$.32; (b) \$.2; (c) \$.250; (d) \$.3; (e) \$.02. Total \$32,290.

Paris Bros., Berkeley, (a) \$.33; (b) \$.230; (c) \$.280; (d) \$.325; (e) \$.01. Total \$32,971.

Ariss Knapp Co., Oakland, (a) \$.33; (b) \$.225; (c) \$.255; (d) \$.315; (e) \$.02. Total \$33,387.50.

Earl W. Hepple, 494 Delmas St., San Jose, (a) \$.34; (b) \$.220; (c) \$.260; (d) \$.3; (e) \$.02. Total \$34,074.

Frank C. Cuffe, Box 441, San Rafael, (a) \$.36; (b) \$.235; (c) \$.268; (d) \$.306; (e) \$.01. Total \$35,163.50.

R. G. LeTourneau, 125 55th Ave., Stockton, (a) \$.35; (b) \$.27; (c) \$.311; (d) \$.350; (e) \$.02. Total \$35,955.90.

Lilly, Willard & Biasotti, 40 West Clay St., Stockton, (a) \$.38; (b) \$.202; (c) \$.235; (d) \$.272; (e) \$.01. Total \$36,072.40.

Healy-Tibbitts Construction Co., San Francisco, (a) \$.384; (b) \$.267; (c) \$.317; (d) \$.360; (e) \$.01. Total \$38,040.90.

E. C. Coats, Sacramento, (a) \$.40; (b) \$.270; (c) \$.3; (d) \$.340; (e) \$.055. Total \$38,709.

G. H. Palmer, Box 866, Livermore, (a) \$.42; (b) \$.210; (c) \$.240; (d) \$.260; (e) \$.02. Total \$39,952.

Guerin Bros., 2940 San Jose Ave., San Francisco, (a) \$.45; (b) \$.225; (c) \$.265; (d) \$.320; (e) \$.01. Total \$42,397.50.

SAN FRANCISCO.—C. B. Eaton, 715 Ocean Ave., at \$4,320 submitted low bid to Board of Public Works to improve Alameda St. bet. Potrero Ave. and York St. and west line of York St. including intersections of Hampshire St., involving grading.

Complete list of bids follows:

C. B. Eaton \$4,320
Pionbo Brothers 5,088
L. Johnson 5,280
Granfield, Farrar & Carlin 5,664
Meyer Rosenberg 5,644
J. P. Holland 6,000
Municipal Const. Co. 7,968

SANTA CLARA COUNTY, Cal.—Until November 26, 2 P. M., bids will be received by State Highway Commission to grade and pave with bituminous macadam 10.7 miles between San Felipe and one mile east of Bells Station.

See call for bids under official proposal section in this issue.

IMPERIAL COUNTY, Calif.—Until November 26, 2 P. M., bids will be received by State Highway Commission to grade and pave with asphalt concrete, 6.0 miles between Araz and Yuma.

See call for bids under official proposal section in this issue.

SAN FRANCISCO.—E. J. Treacy, Call Bldg., at \$1,360 submitted low bid to Board of Public Works to improve crossing of Delano Ave. and Mount Vernon Ave. involving armored concrete, 2-course cement concrete sidewalks, 8-in. and 12-in. vit. clay pipe sewers, brick manholes, brick catch-basins, 2-in. asphalt conc. pave. on 6-in. class F conc. base.

Complete list of bids follows:

E. J. Treacy \$1,360
C. B. Eaton 1,526
C. L. Harney 1,542
Municipal Const. Co. 1,629
Pacific States Const. Co. 1,750
Meyer Rosenberg 1,933

HUNTINGTON BEACH, Orange Co., Cal.—Until Nov. 17, 7:30 P. M., bids will be received by city council to improve portions of Indianapolis, Wesley Sts., etc., approx. 2 miles in length, involving paving and some curbing. Alternate bids will be taken on 3-in. to 5½-in. rock and oil and on 3-in. to 5½-in. emulsified asphalt. Cash payment. Plans obtainable from Merwin Rosson, city engineer, on deposit of \$10.

SACRAMENTO, Calif.—McGillivray Construction Co., P. O. Box 927, Sacramento, at \$8,500 awarded contract by county supervisors to construct asphalt concrete shoulders of Fair Oaks Blvd. from a point near Sierra Oaks easterly.

MONTEREY, Monterey Co., Cal.—Until November 12, bids will be received by Clyde A. Dorsey, city clerk, (3020) to construct 4-inch cement concrete sidewalks in Lighthouse Ave., between north line of U. S. Military Reservation and common boundary line between the city of Pacific Grove and the city of Monterey. 1911 Act. Bond Act 1915. Certified check 10% payable to city required with bid. Plans on file in office of clerk.

MONTEREY, Monterey Co., Cal.—Until November 12, bids will be received by Clyde A. Dorsey, city clerk, (3023) to construct cement concrete sidewalks in portions of Pacific St., between Martin and Deatur Sts. 1911 Act. Bond Act 1915. Certified check 10% payable to city required with bid. Plans on file in office of clerk.

SACRAMENTO, Cal.—Bids will be asked by city council to grade runways at Municipal Airport; estimated cost \$14,500. Fred J. Klaus is city engineer.

SAN FRANCISCO.—C. Douglas, 840 Bosworth St., at \$65 submitted low bid to Board of Public Works to improve north half of Green St. from point 62 ft. 6 in. from east line of Polk St. to point 87 ft. 6 in. east of Polk St., involving removal of sand from roadway and sidewalk and construction of bulkhead. D. C. McCabe only other bidder at \$75.

SAN FRANCISCO.—G. A. Love and Son, 395 Collingwood St., at \$700 submitted low bid to Board of Public Works to construct artificial stone sidewalks in portions of Saturn St., 15th St., Ord St., etc. Complete list of bids follows:

G. A. Love & Sons \$700
M. Bertolino 875
D. C. McCabe 900
M. J. Lynch 900

SAN FRANCISCO.—Municipal Construction Co., Call Bldg., at \$2250 submitted low bid to Board of Public Works to improve 44th Ave. between Moraga and Noriega Sts. (where not) involving armored concrete curbs, vit. clay pipe sewers, 2-in. asphalt concrete surface with 6-in. class F concrete base.

October 31, 1930

COMPLETE BID LISTING

SAN FRANCISCO.—As previously reported, C. B. Eaton, 715 Ocean Ave. at \$19,215 submitted low bid to Board of Public Works to improve Cayuga Ave. from Onedio Ave. to Seneca Ave. and Seneca Ave. from Oniego Ave. to Alenany Blvd., etc., involving grading, armored concrete curbs, 1-course concrete sidewalks, 8-in. and 12-in. vit. clay pipe sewers, side sewers, brick catchbasins, 2-in. asph. conc. surface pavement on 6-in. class F concrete base. Complete list of bids follows:

C. B. Eaton.....	\$19,215
A. G. Ralsch.....	19,316
E. J. Treacy.....	20,212
C. L. Harney.....	20,582
Fay Improvement Co.....	20,594
L. J. Cohn.....	21,453
Meyer Rosenberg.....	22,441
Municipal Const. Co.....	22,672

SAN FRANCISCO.—C. L. Harney, Call Bldg., at \$7,735 submitted only bid to Board of Public Works to improve uncompleted portions of 26th Ave. bet. Ortega and Pacheco Sts.; 41st Ave. bet. Noriega and Ortega Sts., etc., involving armored concrete curbs, side sewers, 6-in. conc. base pavement with 1½-in. asph. conc. surface.

SAN FRANCISCO.—E. J. Treacy, Call Bldg., at \$1,666 submitted low bid to Board of Public Works to improve crossing of Kirkwood Ave. and Mendall Sts., involving grading, armored concrete curbs, 1-course cement sidewalks, brick catchbasins, 2-in. asphalt concrete pavement with 6-in. class F concrete base. Complete list of bids follows:

E. J. Treacy.....	\$1,666
C. P. Eaton.....	1,838
J. Tobin.....	1,875
C. L. Harney.....	1,935
Meyer Rosenberg.....	1,996
Municipal Const. Co.....	2,022

SANTA MARIA, Santa Barbara Co., Cal.—Santa Maria Const. Co., Santa Maria, at \$28,570.72 submitted low bid to city council to improve Cypress Ave. bet. Broadway and Suez Sts., involving 94,000 sq. ft. 4-in. asph. conc. pave., 53,000 sq. ft. 2-in. oil macadam, 11,555 sq. ft. cement gutters with small amount of incidental work. Other bids, taken under advisement, were: Hollywood Paving Co., \$33,335.30; Southwest Paving Co., Los Angeles, \$36,041.54.

KERN COUNTY, Cal.—Valley Paving & Construction Co., Visalia, at \$22,819 submitted low bid to State Highway Commission No. 5 to grade and pave with cement concrete, 0.3 mile near Wasco. Hartman Const. Co., Bakersfield, only other bidder, at \$22,895.

SALINAS, Monterey Co., Cal.—Granite Construction Co., Watsonville, at \$11,408.10 awarded contract by county supervisors to improve Natividad road, involving 4800 tons vase rock, furnished, unloaded, hauled and dumped into spreader boxes; 373 bbls. 90-95% oil, hauled and spread; 780 tons ¾-in. rock, furnish, haul and dump; 390 tons ¾-in. to ½-in. rock, furnish, haul and dump.

REDWOOD CITY, San Mateo Co., Cal.—Hanrahan Co., Standard Oil Bldg., San Francisco, at \$15,075 submitted low bid to county supervisors to repair and pave a portion of Hillside Boulevard, formerly known as San Bruno Ave., in First Supervisorial District. Union Paving Co., Call Bldg., San Francisco, next low at \$15,922. Taken under advisement.

ROBERT MCKEE LOW BIDDER FOR MANHATTAN BEACH BRIDGE

LOS ANGELES COUNTY, Cal.—Robert E. McKee, Central Bldg., Los Angeles, at \$29,785 submitted low bid to State Highway Commission October 29 to construct a reinforced concrete girder bridge over the A. T. & S. F. Ry. at Manhattan Beach, consisting of one 42-ft. span, two 31-ft. spans, one 30-ft. 10-in. span and one 30-ft. 2-in. span on concrete bents, involving:

- (1) 375 cu. yds. structure excavation;
- (2) 1145 cu. yds. Class B Portland cement concrete;
- (3) 13 cu. yds. Class B Portland cement concrete;
- (4) 193,000 pounds reinforcing steel;
- (5) 1275 pounds bronze expansion plates;
- (6) 1 lot miscellaneous items of work.

The unit bids were:

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
R. E. McKee.....	\$70	\$17.00	\$65.00	\$.0425	\$.40	\$500.00	\$29,785.00
H. M. Baruch C'p. 1.60	16.80	58.50	.044	.41	325.00	29,936.25	
Metzger & Son.....1.50	16.50	85.00	.045	.45	150.25	29,969.00	
H'ghton-Anderson......85	17.55	56.50	.045	.435	899.20	31,196.82	
O. A. Gierlich.....1.50	15.78	60.00	.04	.43	800.00	31,913.85	
Carpenter Bros.....1.25	19.66	50.00	.039	.45	500.00	32,320.20	
Oberg Bros.....2.00	19.00	50.00	.0405	.50	900.00	32,509.00	
Bodenh'm'r Const.....60	19.50	50.00	.045	.50	500.00	33,155.00	
R. E. Homann Co.....3.00	21.00	80.00	.04	.40	1381.00	35,821.00	
General Eng. Co.....1.25	24.00	75.00	.05	.50	400.00	39,611.25	

BODENHAMER CONSTRUCTION LOW ON SAN MATEO BRIDGE PROJECT

SAN MATEO COUNTY, Cal.—As previously reported, Bodenhamer Construction Co., San Diego, at \$35,756 submitted low bid to the State Highway Commission October 29 to construct a reinforced concrete girder bridge over Redwood Slough near Redwood City, consisting of three 35-ft. spans and one 22-ft. span on concrete pile bents. Complete list of unit bids follows:

- (a) 260 cu. yds. structure excavation;
- (b) 1,260 lin. ft. furnish creosoted Douglas fir piles;
- (c) 42 each, drive creosoted Douglas fir piles;
- (d) 2,700 lin. ft. reinforced concrete piles;
- (e) 875 cu. yds. Class "A" P. C. concrete;
- (f) 42 cu. yds. Class "A" P. C. concrete (sidewalks);
- (g) 170,000 lbs. reinforcing steel;
- (h) 1,600 lbs. bronze expansion plates;
- (i) 7 M. b.m. creosoted Douglas Fir Timber, select. str. grade;
- (j) 315 lin. ft. timber guard rail;
- (k) 1 lot of miscellaneous items of work.

- (1) Bodenhamer Const. Co., San Diego, \$35,756.10.
- (2) R. B. McKenzie, Red Bluff, \$37,141.42.
- (3) G. J. Ulrich Construction Co., Modesto, \$37,289.14.
- (4) Fredrickson and Watson & Fredrickson Bros., Oakland, \$38,097.50.
- (5) A. W. Kitchen, Piedmont, \$39,267.25.
- (6) H. C. Vensano & Company, San Francisco, \$41,224.
- (7) Healy-Thibbitts Construction Co., San Francisco, \$41,890.
- (8) C. J. Nystedt, Oakland, \$43,633.55.

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a)	\$ 0.75	\$ 1.00	\$ 2.00	\$ 1.20	\$ 1.30	\$ 1.50	\$ 1.50	\$ 0.98
(b)	0.66	0.70	0.80	0.75	0.90	0.50	1.50	0.75
(c)	15.00	18.00	43.00	12.00	12.00	25.00	40.00	12.50
(d)	2.55	3.00	3.00	3.00	3.50	1.65	3.50	3.50
(e)	19.00	19.26	18.30	21.00	19.15	26.40	16.00	24.50
(f)	19.00	19.26	20.67	14.50	16.50	26.40	25.00	24.50
(g)	0.045	0.04	0.038	0.04	0.045	0.045	0.05	0.0425
(h)	0.50	0.50	0.35	0.30	0.46	0.35	0.80	0.40
(i)	90.00	\$1.00	120.00	100.00	\$3.50	100.00	90.00	115.00
(j)	1.10	1.00	1.10	1.50	1.30	2.00	3.00	1.15
(k)	500.00	100.00	768.00	800.00	1012.00	950.20	2075.00	960.00

Bid of Pen C. Gerwick, Inc., of San Francisco, at \$33,117, declared irregular.

**REVISED 1930 EDITION OF SAN
FRANCISCO BUILDING LAWS NOW
ON SALE AT OFFICE OF DAILY PA-
CIFIC BUILDER.—\$1.00 PER COPY.**

COALINGA, Fresno Co., Cal.—A. Segel, engineer, Griffith-McKenzie Bldg., Fresno, commissioned by city council to prepare specifications to resurface Elm St.

SAN FRANCISCO—Following bids received by State Harbor Commission November 5 for laying basalt block roadway between Pier 50 and Pier 54, involving approximately 34,600 sq. ft., divided into two contracts:

- (a) for northerly 17,300 sq. ft.
(b) for southerly 17,300 sq. ft.
Eaton & Smith, 715 Ocean Ave., (a) \$1,525; (b) \$1,625.
Fay Improvement Co., Phelan Bldg., (a) \$177; (b) \$195.
A. G. Ralsch, 46 Kearny St., (a) \$207; (b) \$207.
Taken under advisement.

YUBA CITY, Sutter Co., Cal.—Proceedings have been started by the city council to widen Plumas St., the main business thoroughfare, an additional 20 ft. Estimated cost \$14,000.

SANTA BARBARA, Cal.—Crook & Clark, Santa Barbara, at \$6070 awarded contract by county supervisors to improve Patterson Ave., involving grading, drainage and oil macadam paving and at \$3525 for grading and drained oil macadam road on the Old Turnpike road between the State highway and overhead crossing of the S. P. Railroad in the Third Road District.

SAN FRANCISCO—Until November 12, 2:30 p. m., bids will be received by S. J. Hester, secretary, Board of Public Works, for paving at Mills Field Municipal Airport; estimated cost \$9500. Project involves:

- 52,000 sq. ft. 2-in. asph. conc. wearing surface;
35,200 sq. ft. ¾-in. emulsified asphalt wearing surface;
15 tons asphaltic concrete repairs;
2,600 sq. ft. concrete sidewalks;
165 lineal feet armored concrete curb;
435 lineal feet armored concrete curb and gutter;
1 concrete inlet;
Miscellaneous work; manhole readjustment; gate relocation; water pipe installation.

Certified check 10% payable to clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall.

OFFICIAL PROPOSALS

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received at the office of the State Highway Engineer, Public Works Building, Sacramento, California, until 2 o'clock P. M. on November 26, 1930, at which time they will be publicly opened and read, for construction in accordance with specifications therefor, to which special reference is made, of portions of State Highway, as follows:

Marin County, a bridge across Richardson Bay and over the tracks of the Northwestern Pacific Railroad at Manzanita (IV-Mrn-1-C), consisting of one 56'-0" plate girder lift span on concrete piers with pile foundations, one 45'-0" steel stringer span on concrete bents with pile foundations, and approximately 2340 feet of timber trestle on pile and frame bents.

Santa Clara County, between San

WELDED STEEL PIPE BIDS OPENED

LOS ANGELES, Cal.—Seven bids were submitted to the city purchasing agent for welded steel coated water pipe under Spec. 2213. Referring to the tabulation printed below, the items are:

- PROPOSAL NO. 1.
(1) 6720 ft. 54-in. welded steel pipe (11/32-in.);
(2) 1176 ft. 54-in. welded steel pipe (5/16-in.);
(3) 10,584 ft. 40-in. welded steel pipe; (Slip joint for Field Welding and double dipped in Walles Dove Hermiston Corp's Hermastic pipe coating).
PROPOSAL NO. 2.
(1), (2), (3) Items as in Proposal No. 1, except that pipe is to be dipped in McEverlast, Inc. steel pipe coating.
PROPOSAL NO. 3.
(1), (2), (3) Items as in Proposal No. 1, except pipe to alternate inside and outside diameter sections punched for field riveting;
PROPOSAL NO. 4.
(1), (2), (3) Items as in Proposal No. 3, except dipping shall comply with Proposal No. 2.
PROPOSAL NO. 5.
(1) 4662 ft. 51-in. welded steep pipe (11/32-in.);
(2) 3240 ft. 51-in. welded steel pipe (5/16-in.);
(3) 10,584 ft. 38-in. welded steel pipe. (Items are for pipe that is concrete lined, with reinf. bell on one end, with outside double dipped in Walles-Dove - Hermiston Corp's Hermastic pipe coating).
PROPOSAL NO. 6.
(1), (2), (3) Items as in Proposal No. 5, except that outside of pipe is to be double dipped in McEverlast, Inc., steel water pipe coating.

The bidders were:

- (A) Southwest Welding Works.
(B) Western Pipe & Steel Co.
(C) Lacy Manufacturing Co.
(D) L. A. Manufacturing Co.
(E) Consolidated Steel Corp.
(F) American Hume Steel Pipe Co.
(G) Crane Company.

The itemized bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	—(G)—
I. (1).....	\$8.78	\$6.80	\$9.14	\$9.46	\$7.02	\$.....	\$12.25
(2).....	7.84	6.35	8.46	8.65	6.63	.....	11.33
(3).....	6.83	5.69	7.23	7.70	5.94	.....	10.15
II. (1).....	8.48	6.65	8.74	9.36	6.72	.....	11.50
(2).....	7.54	6.20	8.06	8.55	6.32	.....	10.60
(3).....	6.62	5.59	7.03	7.60	5.72	.....	9.48
III. (1).....	8.89	7.00	9.14	9.71	7.02	.....	12.00
(2).....	7.95	6.55	8.46	8.90	6.62	.....	11.20
(3).....	6.82	5.75	7.23	7.95	5.81	.....	10.60
IV. (1).....	8.59	6.85	8.74	9.61	6.71	.....	12.00
(2).....	7.65	6.40	8.06	8.80	6.30	.....	11.20
(3).....	6.71	5.65	7.03	7.85	5.68	.....	10.00
V. (1).....	.....	.....	.....	.....	9.20	.....	.....
(2).....	.....	.....	.....	.....	8.60	.....	.....
(3).....	.....	.....	.....	.....	7.35	.....	.....
VI. (1).....	.....	.....	.....	.....	9.10	.....	.....
(2).....	.....	.....	.....	.....	8.50	.....	.....
(3).....	.....	.....	.....	.....	7.25	.....	.....

*McEverlast coating. †Hermastic coating.

UNIT BID LISTING ON HETCH HETCHY PIPE LINE

SAN FRANCISCO — As previously reported, Western Pipe & Steel Co. of California, 444 Market St., at \$648,867 for welded pipe and \$671,507 for lockbar pipe submitted only regular bid to the Board of Public Works to construct the Newark-San Lorenzo Pipe Line, under Contract No. 122. Hetch Hetchy Project, involving 12.7 miles of pipe line. Montague Pipe & Steel Co., San Francisco, submitted the only other bid, which was rejected due to the fact that the company asked certain regulation with regard to the time limit and bonus conditions. Unit bid of the Western Pipe & Steel Company follows:

Lockbar Pipe—Group "L"	
Furnish	
35,000 ft. 44-in.	\$7.87
22,000 ft. 36-in.	5.73
Furnish	
Welded Pipe—Group "W"	
35,000 ft. 44-in.	\$7.47
32,000 ft. 36-in.	5.46
Lockbar Pipe—Group "L"	
Deliver and Install	
35,000 ft. 44-in.	\$1.68
36,000 ft. 36-in.	1.40
Welded Pipe—Group "W"	
Deliver and Install	
35,000 ft. 44-in.	\$1.68
36,000 ft. 36-in.	1.40

pipe, each	\$ 52.50
pipe, each	40.20
pipe, each	540.00
pipe, each	456.00
.....	97.10
.....	84.25
.....	66.70
.....	21.2000
.....	10.0000
.....	2.42
.....	2.42
.....	32.50
.....	23.40
.....	.08
.....	.13
.....	95.00
.....	.13
.....	85.00

Bids taken under advisement

Felipe and one mile east of Bella Station (IV-SCI-32-B,C), about ten and seven-tenths (10.7) miles in length, to be graded and paved with bituminous macadam.

Imperial County, between Arax and Yuma (VIII-Imp-27-B), about six (6.9) miles in length, to be graded and paved with asphalt concrete.

Proposal forms will be issued only to those Contractors who have furnished a verified statement of experience and financial condition in accordance with the provisions of Chapter 644, Statutes of 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Bids will not be accepted from a Contractor to whom a proposal form has not been issued by the Department of Public Works.

Plans may be seen, and forms of proposal, bonds, contract and specifications may be obtained at the said office, and they may be seen at the office of the District Engineers at Los Angeles and San Francisco, and at the office of the District Engineer of the district in which the work is situated. The District Engineers' offices are located at Eureka, Redding, Sacramento, San Francisco, San Luis Obispo, Fresno, Los Angeles, San Bernardino and Bishop.

A representative from the district office will be available to accompany prospective bidders for an inspection of the work herein contemplated, and Contractors are urged to investigate the location, character and quantity of work to be done, with a representative of the Division of Highways. It is requested that arrangements for joint field inspection be made as far in advance as possible. Detailed information concerning the proposed work may be obtained from the district office.

No bid will be received unless it is made on a blank form furnished by the State Highway Engineer. The special attention of prospective bidders is called to the "Proposal Requirements and Conditions" annexed to the blank form of proposal, for full

directions as to bidding, etc.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS.

C. H. PURCELL,

State Highway Engineer.

Dated October 29, 1930.

MISCELLANEOUS CONSTRUCTION

OAKLAND, Calif.—Following is a complete list of unit bids received by city council to construct reinforced concrete retaining wall with guard railing in portion of Hopkins Street between High St. and Green Acre Rd.:

Joe Devillers, 354 Hobart St., Oakland (a) concrete work including excavating, backfilling and drain, \$15.50 cu. yd.; (b) reinforcing steel bars, \$.04 lb.; (c) guard rail with wire 176 ft. long and 6 ft. high, \$300.
George S. McMillan (a) \$15.90; (b) \$.045; (c) \$365.
Lee J. Immel (a) \$17; (b) \$.045; (c) \$404.

A. D. Soda & Sons (a) \$17.80 (b) \$.0411; (c) \$.....
J. H. Fitzmaurice (a) \$18.95; (b) \$.425; (c) \$315.
Healey-Moore, Inc., (a) \$19; (b) \$.043; (c) \$350.
H. Shead (a) \$19.05; (b) \$.046; (c) \$385.
Pacific Const. Co. (a) \$22; (b) \$.04; (c) \$500.
W. J. Tobin (a) \$23; (b) \$.04; (c) \$200.

Plans Completed.
UNDERTAKING PARLORS \$40,000
SAN FRANCISCO. Sacramento Street bet. Van Ness Ave. and Polk St. Three-story frame and stucco undertaking establishment and apartments.

Owner—Jos. Hagan, 1708 Sacramento Street.
Architect—Henry C. Smith and A. J. Williams, Humboldt Bank Bldg.
Owner will take bids shortly.

STOCKTON, San Joaquin Co., Cal.
—Following bids received by county clerk to construct fence on the J. R. Russell road in Road District No. 3. Will be about 3 miles in length.
E. R. Jamieson, Sacramento, \$1,843.70
Nelson Bros., Escalon, 1,874.74
J. E. Fitzsimmons, Lodi, 1,835.75
C. E. Cotton, Tracy, 1,991.00
Perrara & Reeves, Tracy, 2,072.63
Bids held under advisement.

MISCELLANEOUS SUPPLIES AND MATERIALS

SAN FRANCISCO—Until November 24, 11 A. M., under Proposal No. 641, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish and deliver under Class 9, paints, painters' supplies and glass as may be required by the city from time to time during the annual term commencing Jan. 1 and ending Dec. 31, 1931. Specifications obtainable from above office.

SAN FRANCISCO—Until November 24, 3 p. m., under Proposal No. 642, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish and deliver linseed oil, shellac, turpentine, lead, litharge, mineral brown and putty, as may be required during the tri-annual term commencing January 1 and ending April 30, 1931. Specifications obtainable from above.

SAN FRANCISCO—Until November 17, 3 P. M., under Proposal No. 647, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish and deliver under: Class 7—hardware and castings; Class 11—lumber, as may be required by the city from time to time during the semi-annual term commencing Jan. 1 and ending June 30, 1931. Specifications obtainable from above.

R. E. HAZARD AWARDED CONTRACT FOR 13.1 MILES OF ROAD IN IMPERIAL COUNTY

STATE HIGHWAY, (Imperial County)—R. E. Hazard Const. Co., 2548 Kettner St., San Diego, was awarded contract by B. B. Meek, state director of public works, Oct. 28 at \$489,125 for highway construction in Imperial County, between Arroyo Salado and north boundary (VII-Imp-26-D and E), about 13.1 miles in length, to be graded and paved with asphaltic concrete, involving:

- | | | |
|---|--|--|
| (1) 361,000 cu. yds. rdwy. embank. | (11) 118 lin. ft. 18-in. corrug. metal pipe; | dense select all-heart struc. grade; |
| (2) 222,000 sta. yds. overhaul; | (12) 30 lin. ft. 24-in. do; | (14) 1130 cu. yds. remove and dispose |
| (3) 10,000 cu. yds. struc. excav. | (10) 53,910 lin. ft. furnish treated piles | of Portland cement conc. in existing |
| (4) 140,800 sq. yds. subgrade for pave. | (11) 1787 each, driving piles; | pavement and structures; |
| (5) 62,000 tons asphalt concrete; | (12) 759 M. ft. b.m. redwood timber; | (15) 692 stations finishing roadway; |
| (6) 1,170 sq. yds. asphalt binder; | (13) 110 select all-heart struc. grade; | (16) 100 each, monuments complete in |
| (7) 540 bbls. fuel oil (detour); | (13) 556 M. ft. b.m. redwood timber, | State will furnish corrug. metal pipe. |

The total bids were:

- | | | |
|--|---|---|
| (A) R. E. Hazard Const. Co., \$489,125. | (F) Griffith Co., \$544,400.90. | (L) Chas. U. Heuser, \$571,072.50. |
| (B) Hanrahan Co., \$499,594.70. | (G) V. R. Dennis Const. Co., \$544. | (M) Basch Bros. Const. Co., \$575,571.80. |
| (C) Southwest Paving Co., \$521,596.69. | (H) W. W. Rohl Co., \$549,411. | (N) Central Calif. Roads Co. & Southern Calif. Roads Co., \$553,454.72. |
| (D) Clark & Henery Const. Co., \$532,485.70. | (I) Gibbons & Reed Co., \$549,682.45. | (O) G. R. Curtis Pav. Co., \$597,795.20. |
| (E) Peninsula Pav. Co., \$534,971.80. | (J) Geo. H. Oswald, \$551,415.55. | (P) Allied Contractors, Inc., \$670,749. |
| | (K) New Mexico Const. Co., \$552,207.50 | |

The unit bids were:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)
(1)	\$.24	\$.20	\$.25	\$.22	\$.22	\$.30	\$.27	\$.30	\$.31	\$.23	\$.23	\$.22	\$.27	\$.16	\$.30	\$.30
(2)	.03	.02	.01	.03	.01	.015	.01	.01	.01	.02	.01	.015	.01	.044	.01	.015
(3)	.03	.50	.71	1.00	.63	1.10	.30	.50	.70	.60	1.00	1.60	.87	.53	1.00	.80
(4)	.065	.08	.24	.10	.10	.09	.14	.10	.09	.075	.08	.12	.07	.08	.09	.10
(5)	3.55	3.67	3.08	3.50	3.75	3.50	3.75	3.70	4.05	3.85	4.10	3.50	5.04	4.50	5.40	.80
(6)	.06	.02	.03	.02	.01	.02	.05	.02	.03	.025	.02	.03	.01	.03	.03	.03
(7)	3.00	2.25	2.25	3.00	4.00	3.00	3.00	3.00	2.50	4.50	3.00	3.00	3.00	3.67	6.00	2.36
(8)	.50	.50	.50	1.00	.60	.55	1.00	.50	.50	.75	1.00	.75	.90	.79	1.00	.50
(9)	.50	.75	.70	1.00	.75	.70	1.50	1.00	.75	1.00	1.00	1.00	.90	1.05	1.50	.50
(10)	.70	.72	.76	.87	.85	.80	.85	.80	.73	.80	.85	.90	.90	.77	.72	.86
(11)	10.00	10.00	16.00	16.00	14.00	13.00	15.00	10.00	12.60	11.65	16.00	15.00	17.30	10.00	12.00	15.00
(12)	75.00	75.00	90.00	90.00	92.00	90.00	95.00	90.00	90.15	96.00	94.00	92.00	103.00	94.30	90.00	95.00
(13)	70.00	85.00	90.00	90.00	92.00	90.00	85.00	90.00	84.85	89.00	94.00	90.00	100.00	87.50	85.00	90.00
(14)	1.50	1.50	3.50	2.00	1.60	1.40	3.00	2.00	2.50	3.00	1.00	2.50	1.25	2.10	2.00	1.19
(15)	2.50	5.00	5.00	10.00	6.00	5.00	10.00	5.00	6.00	5.00	8.00	10.00	6.75	3.15	5.00	4.50
(16)	2.00	2.00	3.00	3.00	3.00	3.00	4.00	3.00	2.50	3.00	3.00	2.00	2.00	2.68	3.00	2.50

Contracts Awarded

Liens, Acceptances, Etc.

BUILDING PERMITS

San Francisco County

No.	Owner	Contractor	Amt.
1417	Franceschi	Owner	11000
1418	Grosman	Owner	3500
1419	Moran	Owner	3000
1420	Scherman	Owner	1000
1421	Smith	Owner	4000
1422	McAfee	Owner	4000
1423	Grahn	Owner	4000
1424	Reilly	Owner	9000
1425	Meyer	Owner	8000
1426	Gray	Owner	4000
1427	Aglietti	Parsons	6000
1428	Leask	Owner	4000
1429	Graziani	Delucchi	4500
1430	Aglietti	Parsons	6000
1431	Butler	Owner	45000
1432	Hilbar	Barrett	4000
1433	Samuelson	Owner	5500
1434	St. Francis Papenhausen	Owner	5000
1435	Dahlberg	Owner	4000
1436	Ballet	Owner	7000
1437	Central	Johnson	4000
1438	Johnson	Owner	7000
1439	Johnson	Owner	5000
1440	McCarthy	Aetna	3500
1441	Nelson	Owner	4500

FLATS

(1417) S VALLEJO 75 E Mason; two-story & basement frame (2) flats. Owner—E. Franceschi, Rio Vista, Cal. Architect—J. A. Porporato, 619 Washington St. \$11,000

DWELLING

(1418) N BRUCE 300 E Harold; one-story and basement frame dwelling. Owner—W. E. Grosman, 47 Curtis St. Architect—None. \$3500

ALTERATIONS

(1419) N 25th ST. 185 E Castro St.; alterations for foundations and to flats. Owner—C. Moran, 4179 25th St. Architect—G. A. Berger, 309 Valencia. \$3000

ALTERATIONS

(1420) 2900 MARIPOSA; alterations to warehouse offices. Owner—J. Scherman, 16th and Harrison Sts. Architect—None. \$1000

DWELLING

(1421) W 25th AVE. 100 N Santiago; one-story and basement frame dwelling. Owner—M. Smith, 154 Guerrero St. Architect—None. \$4000

DWELLING

(1422) AMAZON ST. 100 NW Paris; one-story and basement frame dwelling. Owner—F. McAfee, 771 Hanover. Architect—None. \$4000

DWELLING

(1423) NE TOCOLOMA and Lathrop; one-story and basement frame dwelling. Owner—W. H. Grahn, 2695 Mission St. Architect—None. \$4000

FLATS

(1424) W DOLORES 50 N 29th St.; two-story class C (2) flats. Owner—J. H. Reilly, 1596 Dolores St. Plans by Owner. \$9000

DWELLINGS

(1425) E 17th AVE. 200 S Vicente; two 1-story and basement frame dwellings. Owner—Meyer Bros., 727 Portola Dr. Plans by D. T. Burke, 727 Portola Dr. each \$4000

DWELLING

(1426) E ONEIDA 95 N Courtland; one-story and basement frame dwelling. Owner—A. L. Gray, 223 Irvington St., Daly City. Plans by Owner. \$4000

ALTERATIONS

(1427) 18th and CONNECTICUT; alterations to remodel store. Owner—P. Aglietti. Plans by Mr. Manov. Contractor—H. Parsons, 3000 Colby St. Berkeley. \$6000

DWELLING

(1428) W TWENTY-FIRST AVE 250 S Moraga. One-story and basement frame dwelling. Owner—G. Leask, 197 Parker Ave. Architect—None. \$4000

DWELLING

(1429) SW SILVER AVE AND SOMERSET. One-story and basement frame store and dwelling. Owner—J. Graziani, 2415 24th St., San Francisco. Architect—None. Contractor—D. Delucchi & Son, 3007 San Bruno Ave., San Francisco. \$4500

ALTERATIONS

(1430) 18th and CONNECTICUT; alter stores, roof and front. Owner—P. Aglietti, 355 Crescent Ave. Engineer—M. Matanovich-Manov, 1118 Fresno Ave., Berkeley. Contractor—H. Parsons, 3000 Colby St., Berkeley. \$6000

CONVENT

(1431) ASHBURY ST. bet. Frederick and Waller; four-story and basement class E convent. Owner—Rev. J. Butler, 1025 Masonic Avenue. Architect—H. A. Minton, 618 Underwood Bldg. \$45,000

STORE

(1432) E MISSION 30 S College; one-story frame store. Owner—Hilbar Properties Co., 918 Harrison St. Plans by Owner. Contractor—Barrett & Hilp, 918 Harrison St. \$4000

CAPITAL CITY TILE COMPANY

J. C. PALEN

Manager

914 Seventh Street

Sacramento - - - - California

DWELLINGS

(1433) S LATHROP 26 E Tunnel; two 1-story and basement frame dwellings. Owner—A. M. Samuelson, 901 Geneva. Architect—None. each \$2750

GUILD ROOM

(1434) NE SAN FERNANDO WAY and Ocean; one-story frame guild room building. Owner—Saint Francis Community Church. Architect—E. Coxhead, Hearst Bldg. Contractor—H. Papenhausen, 595 Victoria. \$5000

DWELLING

(1435) W 30th AVE. 150 N Judah St.; one-story and basement frame dwelling. Owner—E. Dahlberg, 1075 Holloway Avenue. Architect—None. \$4000

DWELLINGS

(1436) NE GILMAN 50 SE Hawes; two 1-story and basement frame dwellings. Owner—P. F. Ballet, 810 47th Ave. Plans by by Owner. each \$3500

ALTERATIONS

(1437) 150 EUREKA ST.; alterations to auditorium. Owner—Central Baptist Church, 150 Eureka Street. Plans by Owner. Contractor—J. Johnson and Son, 666 Mission St. \$4000

DWELLINGS

(1438) S LINCOLN 121 W 42nd Ave.; two 1-story and basement frame dwellings. Owner—N. E. Johnson, 666 Mission. Architect—None. each \$3500

DWELLING

(1439) W EENTON 263 S Glueburn; one-story and basement frame dwelling. Owner—A. R. Johnson, 3901 Mission. Plans by D. E. Jaekle, Call Bldg. \$5000

DWELLING

(1440) SE HEARST and Congo; 1-story and basement frame dwelling. Owner—J. D. McCarthy, 46 Kearny. Plans by W. Duerner, 166 Miramar Avenue. Contractor—Aetna Const. Co., 166 Miramar Ave. \$3990

DWELLING

(1441) W PINEHURST 68 N Ocean; one-story and basement frame dwelling. Owner—Fernando Nelson & Sons, 2 West Portal Ave. Architect—None. \$4500

BUILDING CONTRACTS

San Francisco County

No.	Owner	Contractor	Amt.
220	S P Co	Eaton	—
222	McLean	Atwood	2467
220	Graham	Miller	1250
221	Eng-Skell	Mission	37500

PAVING

(220) CARROLL AVE.; paving track area.

Owner—Southern Pacific Co., 65 Market Street.
Architect—None.
Contractor—Eaton & Smith, 715 Ocean Avenue.

Filed Oct. 31, '30. Dated Oct. 25, '30.
Monthly payments of.....75%
days after completion.....25%
6,250 sq. ft. of 5-in. asphaltic
conc. pave. at per sq. ft.....\$0.195
Bond, \$1,218.75. Sureties, U. S. Guar-
antee Co. Limit, 60 days. Plans and
Spec. filed.

ALTERATIONS

(220) 202 LOUISBERG ST.: new roof,
stucco finish on building, terra
cotta, Spanish tile, and other al-
terations and additions.

Owner—M. Graham.
Architect—None.
Contractor—Phillip Miller, 384 San
Miguel.

Filed and Dated Nov. 3, 1930.
Stucco work brown coated.....\$400
Completed.....400
Usual 35 days.....450
TOTAL COST, \$1,250
Bond, \$625. Sureties, Associated In-
demnity Corp.

BUILDING

(221) SE HOWARD ST. and NE
Russ St. NE 100 x SE 280; all
work on 3-story class B concrete
building.

Owner—Eng-Skell Co., 208 Mission St.
Architect—None.
Contractor—V. Fassio as Mission Con-
crete Co., 270 Turk St.

Filed and Dated Nov. 3, 1930.
Monthly payments of.....75%
Usual 35 days.....25%
TOTAL COST, \$37,560
Bond, \$37,560. Sureties, Commercial
Casualty Ins. Co. Limit, Jan. 15, '31.
Plans and Spec. filed.

STEAM HEATING

(222) N 18th 111-3 1/2 W Guerrero W
47-11 N 127-6 E 31-10 1/4 S 128-3;
steam heating and hot water ser-
vice for building.

Owner—Isabella McLean.
Architect—None.
Contractor—A. G. Atwood, 3623 18th
Street.

Filed Nov. 6, '30. Dated Oct. 31, '30.
Roughing in completed.....\$450
Completed and accepted.....1400
Usual 35 days.....617
TOTAL COST, \$2,467
Bond, \$2,467. Sureties, Maryland Cas-
ualty Co. Limit, 15 days.

EXTENSION OF TIME ON CONTRACT

SAN FRANCISCO COUNTY

FELL and Baker Sts.; installing ele-
vators and dumb-waiters.

Owner—Southern Pacific Co., 65 Mar-
ket Street.
Architect—None.
Contractor—Spencer Elevator Co.

Filed Nov. 1, '30. Dated Oct. 23, '30.
Extension of time to Feb. 28, 1931
Sureties, U. S. Guarantee Co.

INSTALLATION of boiler plant on
above.
Contractor—Dorward Engineering Co.
Filed Nov. 1, '30. Dated Oct. 23, '30.
Extension of time limit to Dec. 10,
1930.
Sureties, U. S. Guarantee Co.

COMPLETION NOTICES

San Francisco County

Recorded.....Accepted
Oct 30, 1930—E MARGARET AVE
125 S Lakeview Ave Lot 29 Bk E
Map showing Sub Columbia Hgts
Tract. Douglas B and Lucille
Smith to whom it may concern.....
October 30, 1930

Oct 30, 1930—W 22nd AVE 240 N
Vicente N 30 x W 120. Theodore
L and Daisy L Stark to C Inger-
man.....October 30, 1930

Oct 30, 1930—E 230th AVE 175 S Ul-
loa S 75 x E 120 OL 1138. Nils E
Johnson to whom it may concern.....
October 30, 1930

Oct 30, 1930—E 16th AVE 125 N
Wawona N 25 x E 157-6. M Call-
agy to whom it may concern.....
October 29, 1930

Oct 30, 1930—DESCRIPTION OMIT-
TED. Robert and Myrtle Van
Horn to M M Bowman Oct 28, 1930

Oct 30, 1930—3032 MARKET Street.
Wm and M J Archer to Thomas
Hamill, Inc.....October 29, 1930

Oct 30, 1930—PTN LOTS 25 and 26
Blk 5803, St Mary's Park. A R
Johnson to whom it may concern.....
October 28, 1930

Oct 29, 1930—305 SAN CARLOS ST.
W and A Nelson to C D De Vel-
biss.....October 28, 1930

Oct 29, 1930—BLK 429 OL bounded
on N by Cabrillo St on W by Ca-
brillo St on S by Fulton St and
on E by La Playa St. G H Hotel-
ing and J H Swinerton to whom it
may concern.....

Oct 29, 1930—S SANTIAGO 95-7 1/4 E
15th Ave E 31-10 1/4 x S 100. A
Sergo to whom it may concern.....
October 28, 1930

Oct 31, 1930—N NEY 175 E Grant
Ave. Geo V and A M Godin to
whom it may concern.....Oct 31, 1930

Oct 31, 1930—LOTS 13 and 14 BLK
13 Map lands Flint Tract Hd As-
sn. Ed Entwistle to V P Laguens
.....September 25, 1930

Oct 31, 1930—SW MONTEREY Blvd
and SE line lot 6 blk 3273, map
blks 3260, 3263, 3273 and 3274
Monterey Heights NW 52 SW
100 SE 53-213 NE 100. George W
and Josephine Stanley to whom it
may concern.....

Oct 31, 1930—NE EIGHTH and Na-
toma Sts. Tay-Holbrook, Inc to
Crammes Bros.....October 28, 1930

Oct 31, 1930—SE OTIS and NW Mis-
sion SW 226-8 1/2 SE 97-1 1/4 NE to
beg. Union Oil Co of California to
W C Cone.....October 29, 1930

Oct 31, 1930—260-270 UPLAND DR.
200 Westgate Drive. Thomas J
Sullivan to whom it may concern.....
October 30, 1930

Oct 30, 1930—W 25th AVE 350 S "R"
25x120. N W Anderson to whom
it may concern.....October 24, 1930

Nov. 1, 1930—S BALEDA 90 E
48th Ave E 30x90. Mortgage
Guarantee Co to whom it may
concern.....Oct. 29, 1930

Nov. 1, 1930—E TWENTY-SECOND
Ave 150 S Quintara S 50x90 120.
L and A Costello to whom it may
concern.....Nov. 1, 1930

Nov. 1, 1930—SE MARKET 200 NE
Foothill Bldg & Loan Assn to Ca-
hill Bros.....Oct. 29, 1930

LIENS FILED

San Francisco County

Recorded.....Amount
Oct 30, 1930—W 14th AVE 220 South
Taraval S 30 x W 135. Albert
Cochran vs J E and T C Petersen, P
H Siri and H W Bott.....\$357.50

Oct 29, 1930—SE MISSION ST 100
NE Russia Ave NE 100 x SE 108-
6. J Condi vs J Hill and A R and
V B Frank.....\$36

Oct 29, 1930—W 14th AVE 220 S
Taraval S 30 x W 135. J H Kruse
vs John E and Theresa C Peter-
sen, Felix H Siri and Horace W
Bott as Siri & Bott.....\$1475.68

Correction in Amount
Oct 29, 1930—W 14th AVE 220 S
Taraval S 30 x W 135. Illegins &
Kraus vs Siri & Bott. T and J E
Peterson.....\$265

Nov 1, 1930—E MARKET AND 12th
SE 275 NE 83.34 N 324.58 SW
226.96. E B Morf and G Pence
(as Pence Mort Electric Co) vs
Defendant Omitted.....\$1081.29

Oct 21, 1930—S HAYES 192-6 W
Laguna W 27-6 x S 120. F M
Mannix vs J Crowley, H Cohn,
Bank of Italy, J F and C C Crow-
ley.....\$150

Oct 31, 1930—E NINTH AVE 125 N
Noriega St N 25 x E 120. Sunset
Iron Works vs H S Klingspor.....\$68

Nov. 1, 1930—NW MARKET ST.
31-10 SW Iotmain SW 94-9 S 69-
15' W 145-2 N 10-15 E 65 N 650-
45' E 156-6. D G Huenegard vs
E Harris and H H Mansfield.....\$2417.30

RELEASE OF LIENS

San Francisco County

Recorded.....Amount
Oct 28, 1930—E 11th AVE 200 N
Noriega N 25 x E 120. Bowman
Hardwood Floor Co, L E McEn-
hill, S Tutty, J S Guerin Co, J I
Meeks, H S Thompson, Inc, F M
Blessing as New Mission Sheet
Metal Works and Stura Eros to
Ernest Watson.....

Oct 28, 1930—S PULTON 31st West
Lyon W 25 x S 100 WA 608. Os-
car Larson to Maria Leyva.....

Nov. 1, 1930—LOT 7 BLK 8, Map
Tract A, Peoples Hd Assn. O G
Windell; Hayes & Garrick; Cali-
fornia Terrazzo Marble Co to L
R Stenman and J F Thorne.....

BUILDING PERMITS

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
1373	Fischer	Windsor	\$890
1374	Rodwick	Owner	1675
1375	Stern	Owner	1000
1376	Wilkinson	Owner	1500
1377	Valente	Owner	1000
1378	Peterson	Owner	1500
1380	Hulme	Dahl	\$700
1381	Justice	Owner	3750
1382	Oakland	Thaxter	24000
1383	Shestuck	Schnebl	10000
1384	McCall	Owner	1000
1385	Lewis	Reimers	8000
1386	Jensen	Owner	2000
1387	Atkins	Waldman	5000
1388	Berger	Peterson	10000
1389	Griffith	Owner	4200
1390	Griffith	Owner	4200
1391	Lyon	Owner	3250
1392	Addison	Owner	4000
1393	No. Oakland	Wildy	22000
1394	Roman	Furlong	2000
1395	Shapiro	Owner	10000

DWELLING

(1373) E TURNLEY AVE. 100 South
Fairway Ave., OAKLAND; two-
story dwelling and 1-story garage.
Owner—R. C. Fischer.

Architect—Ray Keefer, 3281 Lakeshore
Bldg., Oakland.
Contractor—Geo. Windsor, 928 Kings-
ton Ave., Oakland. \$8900

DWELLING

(1374) N PENNIMAN AVE. 300 West
High St., OAKLAND; one-story 4-
room dwelling and 1-story garage.
Owner and Builder—Ellen Rodwick,
4126 Penniman Ave., Oakland.
Architect—None. \$1675

SHED

(1375) 2717 PERALTA ST., OAK-
LAND; 1-story shed.
Owner and Builder—Joe Stern, 2717
Peralta St., Oakland. \$1000
Architect—None.

DWELLING

(1376) NE COR. CHURCH and Holl-
iday, OAKLAND; one-story three-
room dwelling.

Owner and Builder—H. C. Wilkerson,
6850 Holliday St., Oakland.
Architect—None. \$1500

ADDITION
(1377) 5118 CLARK ST., OAKLAND;
addition.

Owner and Builder—M. C. Valente,
5118 Clark St., Oakland.
Architect—None. \$1000

SERVICE STATION
(1378) SE COR. HOPKINS ST. and
Wilson Ave., OAKLAND; 1-story
steel service station.

Owner and Builder—C. W. Peterson,
3545 Boston Ave., Oakland.
Architect—None. \$1800

DWELLING
(1380) NO. 1428 GIBBONS DRIVE,
ALAMEDA. Two-story 6-room
frame and stucco dwelling.

Owner—C. A. Hulme.
Architect—C. E. Shipley, 1234 Pease
St., Alameda.

Contractor—E. W. Dahl, 2901 56th
Ave., Oakland. \$8700

DWELLING
(1381) NO. 2719 CLAY ST., ALA-
MEDA. One-story five-room frame
and stucco dwelling.

Owner—N. F. Justice, 973 Pearl St.,
Alameda.
Architect—None. \$3750

SCHOOL
(1382) S TENTH ST. 100 W Brush
St., OAKLAND; two-story 20-
room brick school.

Owner—Oakland Japanese Methodist
Church, 10th and West Sts., Oak-
land.

Architect—Louis M. Upton, 110 Sutter
Street, San Francisco.

Contractor—F. W. Thaxter, 6452 Hille-
gass Ave., Oakland. \$24,000

ALTERATIONS
(1383) 1671 EIGHTH ST., OAKLAND;
alterations.

Owner—Shestick Bros., 1671 8th St.,
Oakland.
Architect—None.

Contractor—H. W. Schnebly, 2055
Webster St., Oakland. \$1000

RESIDENCE
(1384) 1030 KEELER AVE., BERKE-
LEY; two-story 8-room 1-family
frame residence.

Owner—Dr. O. W. S. McCall, 941 Eu-
clid Ave., Berkeley.

Plans by Contractor.
Contractor—Sam Steindell, 38 North-
hampton Road, Berkeley. \$10,000

RESIDENCE
(1385) NO. 110 PALM AVE., PIED-
MONT. One-story 7-room frame
residence and garage.

Owner—Geo. Lewis, 12 Wildwood Ave.,
Piedmont.

Architect—Ray Keefer, 3281 Lakeshore
Ave., Piedmont.

Contractor—I. H. Reimers, 745 Wala-
vista Ave., Oakland. \$8000

RESIDENCE
(1386) NO. 2640 CALIFORNIA ST.,
BERKELEY. One-story 4-room 1-
family frame residence.

Owner—A. Jensen, 1106 Excelsior
Bldg., Oakland.

Architect—H. Jensen. \$2000

DWELLING
(1387) E McKILLOP ROAD 200 S
Sheffield St., OAKLAND; two-
story 5-room dwelling.

Owner—V. D. Atkins, 865 Alleen St.,
Oakland.
Architect—None.

Contractor—A. E. Waldman, 331 17th
St., Oakland. \$5000

STORE
(1388) SE 14th ST. 48 W 35th Ave.,
OAKLAND; one-story brick store.

Owner—E. M. Berger.
Architect—None.
Contractor—J. B. Petersen, 4021 Agua
Vista Ave., Oakland. \$10,000

DWELLING
(1389) E 10th AVE. 274 N Breed
Ave., OAKLAND; 1½-story six-
room dwelling and 1-story garage.

Owner and Builder—C. W. Griffith,
1427 8th Ave., Oakland.
Architect—None. \$4200

DWELLING
(1390) E 105th AVE. 117 N Breed
Ave., OAKLAND; 1½-story six-
room dwelling and 1-story garage.

Owner and Builder—C. W. Griffith,
1427 8th Ave., Oakland.
Architect—None. \$4200

DWELLING
(1391) N GUIDO ST. 351 W 35th Ave.
OAKLAND; one-story five-room
dwelling.

Owner and Builder—C. D. Lyon, 6501
Buena Ventura Ave., Oakland
Architect—None. \$3250

DWELLING
(1392) 11060 BROADWAY TERRACE
OAKLAND; two-story six-room
dwelling.

Owner and Builder—A. S. Moore, 6127
Merriewood Drive, Oakland.
Architect—None. \$4000

CHURCH
(1393) NW COR. 32nd and LINDEN
Sts., OAKLAND; 1-story church.

Owner—North Oakland Baptist Church
32nd and Linden Sts., Oakland.
Architect—C. W. McCall, 14th and
Franklin Sts., Oakland.

Contractor—G. J. Wildy, 1812 Jeffer-
son St., Oakland. \$25,000

DWELLING
(1394) S EXCELSIOR AVE. 75 West
Emerson St., OAKLAND; two-
story 11-room dwelling.

Owner—Roman Catholic Archbishop of
San Francisco, 1100 Franklin St.,
San Francisco.

Architect—W. E. Schirmer, 700 21st
St., Oakland.

Contractor—Thos. F. L. Furlong, 460
Jerome Ave., Oakland. \$20,000

RESIDENCE
(1395) 58 EL CAMINO, BERKELEY;
two-story 8-room 1-family resi-
dence.

Owner and Builder—S. M. Sharpo,
1205 Berkeley Way, Berkeley.
Architect—Wm. Chorpe, % owner. \$10,000

BUILDING CONTRACTS

ALAMEDA COUNTY			
No.	Owner	Contractor	Amt.
126	Beckett	Prentice	5085
127	Berkeley	Brandlein	20584
128	Oakland	Thaxter	21453
129	Roman	Furlong	15497

SERVICE STATION
(126) NW 15th AVE. and E 14th St.,
Oakland; general construction on
oil and gas service station.

Owner—John P. Beckett, 2739 Stuart
St., Oakland.
Architect—A. L. Philbrick.

Contractor—George D. Prentice, 2063
Webster St., Oakland.

Filed and Dated Oct. 30, 1930.

Drives in and pumps and tanks

installed \$1500

When completed \$355

TOTAL COST, \$5085

Bond, \$5085. Sureties, Union Indem-
nity Co. Forfeit, \$10 per day. Limit,
30 days.

FURNITURE & EQUIPMENT

(127) SW KITTLEDGE ST. and Shat-
tuck Ave., Berkeley; furniture and
technical equipment for library
building.

Owner—City of Berkeley.
Architect—James W. Plachek, Mer-
cantine Bank Bldg., Berkeley.

Contractor—R. C. and R. P. Brandlein
as R. Brandlein & Co.

Filed Oct. 30, '30. Dated Oct. 24, '30.
Monthly payments of.....75%
Usual 35 days.....Balance

TOTAL COST, \$20,584
Bond: Performance, \$10,292; Labor &
Material, \$13,292. Sureties, Hartford
Accident & Indemnity Co. Plans
and Spec. filed.

1379 Wood Petersen 3850

ALTERATIONS

(1379) NO. 1727 FRANKLIN ST.,
OAKLAND. Alterations.

Owner—Fred T. Wood Co.
Architect—Guy L. Brown, American
Bank Bldg., Oakland.

Contractor—J. B. Petersen, 4021 Agua
Vista Ave., Oakland. \$3850

SCHOOL

(128) S TENTH ST. bet. Brush and
West Sts., Oakland; general con-
struction on school building.

Owner—Oakland Japanese Methodist
Church, Oakland.

Architect—Louis M. Upton, 110 Sutter
Street.

Contractor—F. W. Thaxter 6452 Hille-
gass Ave., Oakland.

Filed Nov. 3, '30. Dated Oct. 31, '30.
Tenth of each month.....66%
120 days after completion.....Balance

TOTAL COST, \$21,453
Bond, \$10,726.50. Sureties, Tilden Lbr.
and Mill Co. Limit, March 1, 1931.
Plans and Spec. filed.

RESIDENCE

(129) NW EXCELSIOR AVENUE at
Emerson St., Oakland; general
construction except lathing, plas-
tering and roofing, on two-story,
basement and garage frame resi-
dence.

Owner—The Roman Catholic Arch-
bishop of San Francisco, 1100
Franklin St., San Francisco.

Architect—Wm. E. Schirmer, 700 21st
St., Oakland.

Contractor—Thomas F. L. Furlong,
460 Jerome Ave., Piedmont.

Filed Nov. 5, '30. Dated Nov. 4, '30.

When frame is up.....\$3874.25

When plastered.....3874.25

When completed.....3874.25

Usual 35 days.....3874.25

TOTAL COST, \$15,497

Bond, \$15,497. Sureties, Aetna Cas-
ualty & Surety Co. Limit, 100 days.
Plans and Spec. filed.

COMPLETION NOTICES

Alameda County

Recorded	Accepted
Nov. 1, 1930—LOT 265 AVENUE Terrace, Oakland. Andrew Fleming to whom it may concern.....Oct. 31, 1930	
Nov. 1, 1930—NO. 2525 PARKER ST. Oakland. Chas Krattenmaker to whom it may concern.....Oct. 30, 1930	
Oct 30, 1930—3738 MAGEE Ave, Oakland. Hermine Weiss to Harvey C Nichols.....October 28, 1930	
Oct 30, 1930—CAMPUS of the University of California, Berkeley. Regents of the University of California to P J Walker Company.....October 27, 1930	
Oct 31, 1930—LOT 8 and ptn lot 9, Garber-Bellerose Tract, Oakland. Juliet Garber Stringham to Frank G Appelbe.....October 28, 1930	
Oct 31, 1930—ADJ NW 1/4 LINE of parcel of land conveyed by H D Umben to Libby, McNeil & Libby. Oakland. Edward R Bacon Co to The Austin Co.....October 22, 1930	

Oct 30, 1930—SW LINE of Liggett Drive dist thereon NW 65 ft from E corner of 0.8 acre tract deeded to James Burns Nov 3, 1920, Oakland. G H Minner to whom it may concern.....October 28, 1930

OCT 30, 1930—1529 GIBBINS DRIVE, Alameda. J H Pickrell to whom it may concern.....October 30, 1930

OCT 29, 1930—N 44th ST 200 ft E of Market St, Oakland. Fulton Martin to whom it may concern.....October 27, 1930

OCT 29, 1930—LOTS 107 and 108, St James Wood, Piedmont. C A Murphy to George J Maurer.....October 25, 1930

OCT 29, 1930—E WARRING ST 100 ft N of Channing Way, Berkeley. Alpha of Theta Upsilon to George R Moren.....October 27, 1930

OCT 24, 1930—131 JACKSON Street, Oakland. Henry G Hill to Chas S Mabrey.....October 24, 1930

Nov 3, 1930—E HALF LOT 16 BLK 5, Revised Map of Rock Ridge Pk, Oakland. Gerhard F and Margaret M Placke to C H Thrams.....November 1, 1930

Nov 3, 1930—PTN LOT 17 BLK 4, Rock Ridge Place, Oakland. Paul H Haller to whom it may concern.....November 1, 1930

Nov 3, 1930—LOT 25, Ardmore, San Leandro. Lottie A Mercer to whom it may concern.....October 27, 1930

er, \$78.59; Contra Costa Bldg Materials Co, \$247.73 vs Chas A Tieser and H L Spurr.....

Nov 3, 1930—SW DURANT AVE and Fulton St, Berkeley. H W Bolin vs Francis F Goss, Delphine F Doyle, Elizabeth F Ross, Howard Automobile Co, Frederick H Relmors.....\$180

Nov 3, 1930—LOTS 7 and 8, Daley's Scenic Park, Berkeley. Neolal Door Sales Co of California vs C G Tweed, Henry E Tweed.....\$620

RELEASE OF LIENS

Alameda County

Recorded	Amount
Oct 28, 1930—PTN of the land desc in deed from Peter L Kryger et al to Isaac B Parsons Oct 7, 1902 and recorded in Vol 856 of deeds page 253, Eden Twp. Melrose Lbr & Supply Co, Inc to Morris and Carrie Johnson, W Swansick.....\$153.65	

OAKLAND BUILDING SUMMARY

A. S. Holmes, city building inspector Oakland, reports the issuance of 345 building permits in October, 1930, for improvements involving an expenditure of \$495,317. October activities are segregated as follows:

Classification	No. of Permits	Cost
Bldgs.		
1-story dwellings.....	26	\$ 80,450
1½-story dwellings.....	1	6,000
2-story dwellings.....	9	58,500
3-story apartments.....	2	106,500
1-story office.....	3	1,300
1-story tabernacle.....	1	2,000
1-story shop.....	1	75
1-story stores.....	2	3,500
1-story tile garage.....	4	3,415
1-story brick garage.....	1	10,000
1-st brick ser. sta.....	1	2,000
2-st brick factory.....	1	2,500
Brick addition.....	1	400
1-st br and tile ser sta	1	900
2-st concrete home.....	1	79,294
Concrete wall.....	2	1,300
1-st steel ser. sta.....	8	7,950
1-st steel pump. sta.....	5	2,400
Billboards.....	9	1,300
Electric signs.....	37	12,955
Roof signs.....	2	650
Marquee sign.....	1	2,000
1-st gars and sheds.....	73	13,250
Additions.....	59	30,250
Alterations and repairs	93	65,618
TOTAL	345	\$495,317

BUILDING CONTRACTS

SAN MATEO COUNTY

DWELLING
LOT 8 BLK 11, Lomita Park. All work for frame dwelling and garage.
Owner—Charles Fortune.
Architect—None.
Contractor—Acma Constr. Co.
Filed Oct. 24, '30. Dated Oct. 14, '30.
Roof on..... $\frac{1}{4}$
Brown coated..... $\frac{1}{4}$

Completed.....	$\frac{1}{4}$
Usual 35 days.....	$\frac{1}{4}$
TOTAL COST, \$4200	
Bond, none. Limit, 90 working days.	
Forfeit, plans and specifications, none	

DWELLING
LOT 13 BLK 10, Stanford Park, San Mateo. All work for one-story frame and stucco dwelling and garage.
Owner—R. M. Olsson-Seffer et al, 819 Alma St., Palo Alto.
Architect—None.
Contractor—C. S. Baker, 611 S-Fremont St., San Mateo.
Filed Oct. 29, '30. Dated Oct. 20, '30.
Frame up.....\$1713.50
Brown coated.....1713.50
Completed.....1713.50
Usual 35 days.....1713.50
TOTAL COST, \$6854.00
Bond, none. Limit, 90 working days.
Forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded	Accepted
Oct. 23, 1930—LOT 10 BLK 32, Crocker Estate Tract, San Mateo. James G Thompson to Gus Bloomquist.....Oct. 20, 1930	
Oct. 23, 1930—LOT 7 BLK 17, Milbrae Highlands. Elias Virgin to whom it may concern. Oct. 21, 1930	
Oct. 23, 1930—MENLO PARK. Peninsula School of Creative Education to Edward Schmalning.....October 8, 1930	
Oct. 24, 1930—LOT 30 BLK 2, Jefferson Park, San Mateo. Castle Building Co to Henry Horn.....Oct. 21, 1930	
Oct. 24, 1930—HERBERT HOOVER Grammar School. Burlingame Elementary School District to J Harold Johnson.....Oct. 18, 1930	
Oct. 24, 1930—LOTS 22 AND 23 Part Lot 24 Blk 1, Burlingame Park. Philip J Webster to John Daly.....Oct. 22, 1930	
Oct. 24, 1930—LOTS 3 AND 4 BLK 36, Western Addition, San Mateo. Charles Todaro to whom it may concern.....July 20, 1930	
Oct. 24, 1930—LOT 50 BLK 6, Burlingame. Sarah Buchanan et al to whom it may concern.....October 22, 1930	
Oct. 24, 1930—LOTS 5 AND 6 BLK 12, Dumbarton. Thomas Nelson et al to whom it may concern.....October 23, 1930	
Oct. 25, 1930—PART LOT 5 BLK 24 Oak Knoll Manor. Victor Trachiong et al to R L Hansen.....Oct. 16, 1930	
Oct. 25, 1930—PART LOT 265, San Mateo City Homestead. James E Bale et al to whom it may concern.....Oct. 25, 1930	
Oct. 25, 1930—NO. 669 HAYNE RD, Hillborough. Mrs. Davys Stephens to J B Oswald.....Oct. 15, 1930	
Oct. 25, 1930—LOT 13 BLK 4, San Mateo Villa Park, San Mateo. L H Westfall et al to C B McClain.....October 23, 1930	
Oct. 27, 1930—LOT 8 BLK P, Hayward Park, San Mateo. Callen Fjader to Lengfeld & Olund.....October 24, 1930	
Oct. 28, 1930—LOT 3 BLK 8, Edgewood Park, San Mateo. Peninsula Imp Co to whom it may concern.....Oct. 20, 1930	
Oct. 28, 1930—LOTS 31 AND 32 BLK 9, San Carlos. Charles P Cooley to M C Vanderkamp.....Oct. 27, 1930	
Oct. 28, 1930—LOT 5 BLK 2, Crocker Tract, San Mateo. George Romigniere to Joseph Ragni.....Sept. 15, 1930	

Member Insurance Brokers' Exchange

FRED H. BOGGS
INSURANCE
490 GEARY STREET

Phone FRanklin 9400

San Francisco

BUILDING CONTRACTS

SANTA CLARA COUNTY

RESIDENCE

SE GORDON AVE AND GREENSIDE Drive, being Lots 1, 2, 3 and 4 of Greenside Terrace, San Jose. All work for residence and garage Owner—Mr. and Mrs. T. W. MacQuarrie, Greenside Terrace, San Jose. Architect—Binder & Curtis, 35 W-San Carlos St., San Jose. Contractor—Charles A. Thomas, 127 Clayton St., San Jose. Filed Oct. 29, '30. Dated Oct. 27, '30. As work progresses..... 75% Usual 35 days..... 25% TOTAL COST, \$16,716 Bond, \$3558. Sureties, J. A. Chase & A. Hansen. Limit, 100 working days. Forfeit, none. Plans and specifications filed.

Oct. 27, 1930—LOTS 3 AND 4, Murphy-Colombet Subd. No. 2, San Jose. S Pappo to whom it may concern.....Oct. 17, 1930 Oct. 29, 1930—NW NAGLE AVE 60 NE Park Ave., San Jose. J S Mise to whom it may concern.....October 20, 1930 Oct. 30, 1930—N FRANKLIN ST. bet Main and Jackson Sts., Santa Clara. Arabella Machefert et al to whom it may concern.....October 28, 1930 Oct. 30, 1930—LOT 5 BLK 1, John R Chace's Garden Villa Lots, San Jose. Harold G Wick et al to whom it may concern.....Oct. 28, 1930 Oct. 30, 1930—LOT 19, El Monte Subd., Los Gatos. J E Banet to whom it may concern.....Oct. 30, 1930 Oct. 30, 1930—LOT 33 BLK 4, Lincoln Gates, San Jose. R B Bennett to whom it may concern.....Oct. 30, 1930

Oct. 28, 1930—TOWN OF SAN Carlos. Town of San Carlos to M B Wiggins et al.....Oct. 23, 1930 Oct. 28, 1930—PART LOTS 6, 7 & 8 Blk 36, Central Park. William E Griffin to whom it may concern.....October 18, 1930 Oct. 28, 1930—LOTS 40 AND 41 BLK 31, San Bruno. B T Culletton to whom it may concern.....Oct. 27, 1930 Oct. 28, 1930—LOT 4 BLK 34, Redwood Highlands. Harry E Borquin to whom it may concern.....October 28, 1930 Oct. 28, 1930—PART LOTS 6, 7 AND 8 Blk 36, Central Park. William E Griffin to whom it may concern.....October 18, 1930 Oct. 30, 1930—LOT —, Tremont Acres. D B Mountanas et al to James A Anson.....October 11, 1930 Oct. 30, 1930—LOT 14, Hillsborough Acres. S E Shaver to whom it may concern.....Oct. 15, 1930 Oct. 30, 1930—LOT 2 BLK 20, East San Mateo. Ashley S Powers to whom it may concern.....Oct. 20, 1930 Oct. 31, 1930—LOT 26 BLK 94, South San Francisco. South San Francisco Land & Imp Co to Angelo Zangrande.....Oct. 29, 1930

Oct. 31, 1930—PART 30,594 Acres in Hillsborough. C A Meiswinkle to whom it may concern.....Oct. 31, '30 Oct. 31, 1930—LOT C, Central Park, San Mateo. M M Bernard to whom it may concern.....Oct. 28, 1930 Oct. 31, 1930—LOT 14 BLK 24, Wisconsin Sub of Lyon & Hoag Sub of Burlingame. D Houle to whom it may concern.....Oct. 24, 1930 Oct. 31, 1930—HERBERT HOOVER School. Burlingame Elementary School District to Morrison & Blair.....Oct. 27, 1930

COMPLETION NOTICES

SANTA CLARA COUNTY

Recorded	Accepted
Oct 7, 1930—LOT O BLK W, Los Altos Country Club Properties. S G Sargent to whom it may concern.....	October 4, 1930
Oct 7, 1930—LOT 20 BLK 4, Garden City Tract. Thomas F Mahaffey et al to whom it may concern.....	October 6, 1930
Oct 7, 1930—N LAWRENCE AVE 40 ft W Morse Ave, Sunnyvale. Louie Goularte to whom it may concern.....	October 3, 1930
Oct 8, 1930—LOT 715 Salvaterra St, Stanford University. P R Farnsworth to whom it may concern.....	October 6, 1930
Oct 8, 1930—N SANTA CLARA ST 76-38 E Autumn St, San Jose. California Federal Finance Corp to whom it may concern.....	October 4, 1930
Oct 8, 1930—NE 42 FT of LOT 27, Colonial Manor. Wm H O'Neil to whom it may concern.....	Oct 6, 1930
Oct 9, 1930—NE COR FIRST and St James Streets. Seaside Oil Co to whom it may concern.....	September 29, 1930
Oct 9, 1930—LOTS 3 and 4 BLK 3, Alum Rock Terrace. Stanley Deagan et al to whom it may concern.....	October 1, 1930
Oct 11, 1930—LOT 9 BLK E, Southgate, Palo Alto. W S Millar to whom it may concern.....	Oct 4, 1930
Oct 14, 1930—LOT 10 BLK "D", Spaulding Addn, Sunnyvale. Arthur A Wilson et al to whom it may concern.....	October 11, 1930
Oct 14, 1930—NW ST JAMES and Terraine Sts, San Jose. C Candito Pometha to whom it may concern.....	October 11, 1930
Oct 15, 1930—2.92 ACRES PTN Driscoll and Reiter Tract. Roland C Mitchell et al to whom it may concern.....	October 12, 1930
Oct 16, 1930—LOT 55 Colonial Manor. Wm H O'Neil to whom it may concern.....	October 15, 1930
Oct 16, 1930—LOTS 8 and 9 BLK 2, Vendome Park. Gordon Robertson et al to whom it may concern.....	October 16, 1930
Oct 24, 1930—S 123.65 Lot 35, Adams and Keller Tract, San Jose. L C Rossi to whom it may concern.....	October 23, 1930
Oct. 27, 1930—W SANTA CRUZ Ave., Los Gatos. Herman Baumgarten et al to whom it may concern.....	Oct. 24, 1930
Oct. 27, 1930—LOT 99, Studio Hgts San Jose. Eugene Barnard to whom it may concern.....	Oct. 23, 1930
Oct. 27, 1930—LOT 5, Thompson Subd., San Jose. Marie Thompson to whom it may concern.....	October 27, 1930

LIENS FILED

SANTA CLARA COUNTY

Recorded	Accepted
Oct. 24, 1930—LOTS 8 AND 9, Eastmoreland Park, San Jose. M L Doane Lumber Co vs H N Traxler.....	\$198.62
Oct. 27, 1930—LOT 30 BLK 2, Rose Lawn, San Jose. Charles Scarper vs O Sovichanko.....	\$22.25
Oct. 28, 1930—LOT 37, Barron Park San Jose. Memner Lumber Co vs Helen Willaume.....	\$219.39
Oct. 30, 1930—E FIRST ST, 225.64 S St. John St., San Jose. A G Schutte vs G B Locurto et al.....	\$68.79
Oct. 30, 1930—LOTS 8 AND 9 Eastmoreland Park, San Jose. San Jose Lumber Co vs Harold N Traxler et al.....	\$43.13
Oct 8, 1930—LOT 35 BLK 1, Conkling & Col Sub. Hubbard & Carmichael Bros vs C W Brown et al.....	\$25.57
Oct 8, 1930—S MAIN ST and east line of Los Gatos Mfg Co, Los Gatos. Norton-Phelps Lumber Co vs Arthur Berryman Robertson.....	\$166.97
Oct 16, 1930—S MAIN ST and east line of Los Gatos Mfg Co, Los Gatos. A W Templeman vs Arthur Berryman Robertson et al.....	\$109.82
Oct 10, 1930—LOT 2 BLK 3, Lincoln Gates. San Jose Wrecking Co vs H N Traxler, et al.....	\$21.50
Oct 11, 1930—LOT 2 BLK 3, Lincoln Gates. Home Union, \$40.90; M L Doane Lbr Co, \$40.90; St Charles Electric Co, \$150, vs H N Traxler et al.....	
Oct 9, 1930—S HALF OF S MAIN St 110-70 ft SE La Montague Ave, Los Gatos. The Norton - Phelps Lumber Co vs Annie J Robinson.....	\$189.03
Oct 16, 1930—S APPEAL LOT 8, Dwyer Cox Subdiv. Dolan Wrecking & Building Co vs Glenn A Cox.....	\$209.84

LIENS FILED

SAN MATEO COUNTY

Recorded	Amount
Oct. 23, 1930—PART LOT 20, San Mateo Park. San Mateo Plaining Mill Co vs Thos A Cavanaugh et al.....	\$437.80
Oct. 23, 1930—LOT D BLK 10, Burlingame Land Co. Sudden Lumber Co vs C A Torrella.....	\$130.40
Oct. 23, 1930—LOTS 14 AND 15 BLK 2, Bay View Heights. Alvin Warden vs S A Smoot et al.....	\$532.59
Oct. 25, 1930—LOTS 14 AND 15 BLK 2, Bayview Heights. Lowell M Chapin Alias vs Martin Peterson et al.....	\$60
Oct. 28, 1930—LOT 1 BLK 5, Vista Grande. A Milano vs Florence E Clark.....	\$50

RELEASE OF LIENS

SAN MATEO COUNTY

Recorded	Amount
Oct. 27, 1930—LOCATION NOT Given. J Jacobsen et al, Dannenbaum Paint Co, Einar Johnson, Concrete Fixture Co, L Miller et al W A Hamond Co, John Johnson, Martin Nelson, Otto Anderson et al D Seghieri & Co, Malott & Peterson, Wisnom Lumber Co, Pacific Heating Co, J E MacCabe Alias to Anton Rurfs et al.....	
Oct. 28, 1930—LOCATION NOT Given. San Mateo Feed & Fuel Co, \$—; Folsom St. Iron Works, \$10; Sudden Lumber Co, \$— to Anton Rurfs et al.....	
Oct. 28, 1930—LOCATION NOT Given. Eugene V Hunter to Daisy C Scott.....	

RELEASE OF LIENS

SANTA CLARA COUNTY

Recorded	Amount
Oct. 29, 1930—LOT 24 BLK 142, Embarcadero Oaks, Palo Alto. Albert Coak to Robert Neil.....	\$84.44
Oct 9, 1930—LOT 17 ELK 11, Evergreen Park, Palo Alto. D & S Lbr Co, Inc to H L Page and W G Bell.....	\$554.34

ASSIGNMENT OF LIEN SANTA CLARA COUNTY

Oct 15, 1930—LOT 57, Marguerite Tract No 1. S F Bennett to John A Sullivan.....\$290

BUILDING PERMITS**REDWOOD CITY**

DWELLING, 5-room and garage, frame, \$3000; No. 40 Woodrow St., Redwood City; owner and contractor, I. D. Northeast, 867 38th Ave., San Francisco.

DWELLING, 6-room and garage, frame, \$5000; No. 548 Vera Ave., Redwood City; owner, Peter Pariani, 559 Paris St., San Francisco; contractor, J. Marconi, 745 Greenwich St., San Francisco.

DWELLING, frame, 5-room and bath and garage, \$3000; No. 1217 Lexington Ave., Redwood City; owner, and contractor, G. and S. Moncreiff.

DWELLING, frame, 5-room, bath and garage, \$3000; No. 542 Jefferson Ave., Redwood City; owner and contractor, E. Strandquist, 229 Iris St., Redwood City.

CLEANING and boiler room, reinforced concrete, \$1800; No. 51 Perry St., Redwood City; owner and contractor, Thomas Nelson, 849 Arlington Rd., Redwood City.

DWELLING, frame, 5-room, bath and garage, \$3000; No. 46 Woodrow St., Redwood City; owner and contractor, R. E. Stewart, 6008 Camden St., Oakland.

DWELLING, frame, 2-story 7-rooms, bath and garage, \$5000; No. 27 Avondale Ave., Redwood City; owner, Caroline Clements, 54 Bepeler St., San Francisco; contractor, A. Powers, 515 S-Humboldt St., San Mateo.

DWELLING, frame, 5-room, bath and garage, \$4000; No. 542 Vera Ave., Redwood City; owner, Amedeo Pariani, contractor, J. Marconi, 745 Greenwich St., San Francisco.

DWELLING, frame, 6-room, bath and garage, \$4800; No. 222 Iris St., Redwood City; owner, Mrs. M. L. Vincent, 270 Kellogg St., Palo Alto; contractor, Thomas Nelson, 849 Arlington Road, Redwood City.

DWELLING, frame, 5-room, bath and garage, \$3000; No. 718 Beech St., Redwood City; owner and contractor, A. Newman, 327 King St., Redwood City.

DWELLING, frame, 6-room, bath and garage, \$5000; No. 973 Arlington Road, Redwood City; owner and contractor, E. Strandquist, 229 Iris St., Redwood City.

BUILDING PERMITS**BURLINGAME**

RESIDENCE, \$7000; Lot 4 Block 16, Poppy Drive; owner and builder, Richard Menor, 1357 Columbus.

RESIDENCE, \$5000; Lot 14 Block 4 B S L Corbett; owner, C. M. Tregner; contractor, Grove Petersen, 1015 Laguna.

GARAGE, \$2000; Bayshore Highway; owner and builder, Chas Maskell, 418 Grand St.

BUNGALOW, \$4000; Lot 15 Blk 8, Laguna; owner, F. J. Burnett; contractor, I. Sorenson, 1128 Lincoln, Burlingame.

BUNGALOW, \$2200; 107 Highland Ave.; owner, V. E. Badley, 107 Highland Ave., Burlingame; contractor, W. O. Nicolaidis, 236 Clark, San Mateo.

BUILDING PERMITS**PALO ALTO**

RESIDENCE, stucco, \$5500; No. 2338 Ranona St., Palo Alto; owner, W. J. Causey, 2330 South Court, Palo Alto.

BUILDING CONTRACTS**CONTRA COSTA COUNTY****RESIDENCE**

LOT 6 and E 1/4 LOT 5 BLK 19, Richmond Traffic Center. All work for two-story 2-room residence. Owner—John Perrelli, 6310 Center St., Richmond.

Architect—None. Contractor—Norman E. Anderson, 3000 Bartlett St., Richmond.

Filed Oct. 28, '30. Dated Oct. 27, '30. Frame up\$1667
1st coat plaster on1667
Inside plaster completed1667
Completed1667
Usual 35 days1667

TOTAL COST, \$8335
Bond, limit, forfeit, none. Plans and specifications filed.

STORE

LOTS 23 AND 25 BLK A, New Richmond Addition. All work for two-story reinforced concrete and frame store and flat.

Owner—John Ambrosio, Richmond. Architect—James T. Narbett, 466 31st St., Richmond.

Contractor—Valine & Lawrence, Rodeo Filed Nov. 1, '30. Dated Oct. 25, '30.

TOTAL COST, \$7800
Bond, \$7800. Surety, The Fidelity & Casualty Co. of New York. Limit, forfeit, none. Plans and specifications filed.

COMPLETION NOTICES**CONTRA COSTA COUNTY**

Recorded Accepted
Oct. 28, 1930—LOT 25 AND N 1/2 Lot 26 Blk 45, North Berkeley Terrace. Improvement Bond Co, Ltd to whom it may concern.....

October 27, 1930
Nov. 1, 1930—LOT 19, Adams Sub. C F and Lillian D Adams to Hugo Carlson.....

October 31, 1930
Oct. 29, 1930—PORTION PENNSYLVANIA Ave., bet. 19th St. and Center line 20th St., Richmond. Edward A Hoffman, Supt. of St., Richmond to Sam C Rogers.....

October 28, 1930
Sept. 25, 1930—LOT 1 PLK 6 Blvd Gardens Tract No. 1 W A Watson to Self.....

LIENS FILED**CONTRA COSTA COUNTY**

Recorded Amount
Oct. 28, 1930—LOTS 4 AND 5 BLK 152, Additional Survey, Martinez. J P McNamara vs Valine and Lawrence and Julio Bartolomei.....

.....\$314.30
Oct. 28, 1930—LOTS 4 AND 5 BLK 152, Additional Survey, Martinez. Diamond Match Co vs Valine, Lawrence and Julio Bartolomei.....

.....\$731.51
Oct. 23, 1930—LOTS 7 AND 8 BLK 2, Second Amended Map of Fairview. J P McNamara, \$313.75; Santa Fe Lumber Co (as Martinez Lumber Co), \$757.83 vs Pietro Castrucci.....

.....\$731.51
Oct. 30, 1930—LOTS 4 AND 5 BLK 152, Addition Survey, Martinez. A A McMahon vs Valine and Lawrence and Julio Bartolomei.....

.....\$61.25
Oct. 30, 1930—LOTS 4 AND 5 BLK 152, Addition Survey, Martinez. A A McMahon vs Valine and Lawrence and Julio Bartolomei.....

.....\$61.25
Oct. 30, 1930—LOTS 4 AND 5 BLK 152, Addition Survey, Martinez. A A McMahon vs Valine and Lawrence and Julio Bartolomei.....

.....\$61.25
Oct. 30, 1930—LOTS 4 AND 5 BLK 152, Addition Survey, Martinez. A A McMahon vs Valine and Lawrence and Julio Bartolomei.....

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Oct. 30, 1930—LOTS 4 AND 5 BLK 152, Addition Survey, Martinez. A A McMahon vs Valine and Lawrence and Julio Bartolomei.....

.....\$61.25
Oct. 30, 1930—LOTS 4 AND 5 BLK 152, Addition Survey, Martinez. A A McMahon vs Valine and Lawrence and Julio Bartolomei.....

.....\$61.25
Oct. 30, 1930—LOTS 4 AND 5 BLK 152, Addition Survey, Martinez. A A McMahon vs Valine and Lawrence and Julio Bartolomei.....

Owner—John Grady, Monterey.

Architect—Not Given.

Contractor—E. P. Newman and G. E. Halsted, Monterey.

Filed Oct. 30, '30. Dated Oct. 27, '30.

Foundation in, rough lumber on frame up and rough sheathing on 75%
Usual 35 days 25%

TOTAL COST, \$3700
Bond, \$2775. Sureties, Nellia F. Emery and Mrs. A. E. Gamman.

Limit, forfeit, none. Plans and specifications filed.

COMPLETION NOTICES**MONTEREY COUNTY**

Recorded Accepted
Oct. 29, 1930—LOTS 25 AND 27 BLK 2, Map No. 2, Lakeside Tract, Martinez. Sarah F Dillon to John Reinhardt.....

October 28, 1930
Oct. 29, 1930—PART OF RANCHO Nacional. E H Thompson to whom it may concern.....

October 27, 1930
Oct. 30, 1930—PTN LOT 3 BLK 119, Book of the City of Monterey. Harold J McLean to J C Anthony.....

October 28, 1930
Oct. 30, 1930—NE 55 FT. LOTS 2 and 4 Blk 8, Withers Addition to City of Monterey. Harry C Leach to J C Anthony.....

October 29, 1930
Oct. 31, 1930—LOT 23 and S 1/2 Lot 25 Blk G. G. Dorothy McDonald to Hugh W Comstock.....

October 28, 1930
Oct. 31, 1930—W 1/2 LOTS 17 AND 19, Blk 24, Carmel City. Byron Chappell to whom it may concern.....

October 30, 1930

RELEASE OF LIENS**MONTEREY COUNTY**

Recorded Amount
Oct. 28, 1930—LOT 17 BLK 13, Herman's Map of New Monterey. Carroll & Searle Co and Dan Searle to Mrs. Flora Woods and Wade O Halstead.....

.....\$350

BUILDING PERMITS**STOCKTON**

MARQUEE and electric sign, \$3000; 28 E Market St.; owner, Angelo Palermo, care Star Theater; contractor, Commercial Electric Co.

RESIDENCE and garage, \$4000; No. 151 W-Cleveland St.; Stockton; owner, Anton Larson, 123 W-Maple St., Stockton.

RESIDENCE, \$1750; No. 2072 E-Washington St., Stockton; owner, Mrs. M. Kats.

BUILDING CONTRACTS**SAN JOAQUIN COUNTY****CHURCH**

NE STANISLAUS AND LAFAYETTE Sts., being Lots 2 and 4 Blk 35 East of Center St., Stockton. All work for two-story brick church.

Owner—Greek Orthodox Church. Architect—None.

Contractor—T. E. Williamson, 1859 W-Park Ave., Stockton.

Filed Oct. 30, '30. Dated Oct. 28, '30. TOTAL COST, \$10,403

Bond, none. Limit, 60 working days. Forfeit, plans and specifications, none.

COMPLETION NOTICES**SAN JOAQUIN COUNTY**

Recorded Accepted
Nov. 3, 1930—NEW PASSENGER Station, Stockton. Southern Pa-

cliff Co to Lewis & Green.
 Oct. 25, 1930—October 25, 1930
 Oct. 29, 1930—NW 1/4 of Section 11,
 Township 3 S Range 5 East.
 Jefferson School District to J R
 Leighton.....October 25, 1930
 Oct. 29, 1930—IN PASSENGER STA-
 tion, Stockton. Southern Pacific
 Co to Austin B Murray (news
 stand).....October 27, 1930

LIENS FILED**SAN JOAQUIN COUNTY**

Recorded	Amount
Oct. —, 1930—(1) LOTS 3 AND 4 Ptn Lot 11 Blk 32, Victory Park; (2) Lots 3 and 4 Port Lot 5 Blk 22, Map C Sub No. 2, Tuxedo Park, Stockton. L R Shaw vs William J Scott.....(1) \$342.50; (2) \$177	

COMPLETION NOTICES**MARIN COUNTY**

Recorded	Accepted
Oct. 29, 1930—SAN ANSELMO. C A Hancock to Wm Dwyer..... Nov. 27, 1930	
Oct. 29, 1930—LARKSPUR. Leger B Curtis to whom it may con- cern.....Oct. 25, 1930	
Oct. 29, 1930—SAN ANSELMO. Siemer & Kendall to whom it may concern.....Oct. 25, 1930	
Oct. 29, 1930—SAN RAFAEL. Do- minican College of San Rafael to Barrett & Hipl.....Oct. 21, 1930	

LIENS FILED**MARIN COUNTY**

Recorded	Amount
Oct. 30, 1930—LOTS 3 AND 4 Subd 2, Breens Addition to Monte Rio T J Bridgeford vs Charles J Tighe .....\$444.64+\$6	

RELEASE OF LIENS**MARIN COUNTY**

Recorded	Amount
Oct. 30, 1930—SAUSALITO. W C Drechsler, \$135; Carl Lundquist, \$64.59; George Meffley, \$75; R D Hood, \$365 to Nazarine Fitzgerald	

COMPLETION NOTICES**SONOMA COUNTY**

Recorded	Accepted
Oct. 29, 1930—BENNETT AVE, Santa Rosa. (South Park School). City of Santa Rosa School Dis- trict to E Ahlstrom.....Oct. 21, 1930	
Oct. 31, 1930—LOT 32, Lemman & Barnett's Addition to Santa Rosa Pearl and Robert H Drysdale to whom it may concern.....Oct. 27, 1930	

BUILDING PERMITS**SACRAMENTO**

RESIDENCE, 5-room, \$2500; No. 1901
40th St., Sacramento; owner,
Klein Realty Co., 1009 40th St.,
Sacramento.
 ICE box, \$1800; No. 3353 Second St.,
Sacramento; owner, Mr. Slater,
Premises.
 RESIDENCE, 5-room, \$4974; No. 3501
Folsom Blvd., Sacramento; own-
er, Margaret Nelson, Westburg;
contractor, Ed. Lee, 1317 35th St.,
Sacramento.
 RESIDENCE, 6-room, \$4800; No. 531
45th St., Sacramento; owner,
John Simmons.

RESIDENCE, 6-room, \$3000; 4825 U
St.; owner, D. Jenkins, 4035 V St.,
Sacramento.

BUILDING PERMITS**FRESNO**

OFFICE, \$3000; No. 600 Divisadero
St., Fresno; owner, Commercial
Iron Works, 2005 Broadway; con-
tractor, Fisher & McNulty, Mattel
Bldg., Fresno.
 DWELLING and garage, \$3000; No.
1509 Glenn Ave., Fresno; owner,
Dunn & Doss.

COMPLETION NOTICES**FRESNO COUNTY**

Recorded	Accepted
Oct. 29, 1930 — MUNICIPAL AIR- port, Fresno. Pacific Air Trans- port to Jolly & Harrington..... Sept. 17, 1930	

**ALEXANDRIA LUMBER MARKET
SHOWS GREATER ACTIVITY**

The Alexandria lumber market shows greater activity with increased sales in the interior, states a report from Charles E. Dickerson, Commercial Attache at Cairo to the Lumber Division of the Department of Commerce.

Arrivals of American pitch pine during August totaled 150,000 board feet as compared with none during July and June, with demand for this wood being normal. American hardwood arrivals totaled 600,000 board feet during August as compared with none during July and June. There have been no important calls for red gum. Prices of American woods remain firm. Sizeable quantities of lumber arrived from Rumania, Sweden and Finland, partially due to the approach of seasonal closing of navigation, especially in the latter two countries. Arrivals from Rumania and Sweden during August totaled 21,176,000 board

feet as compared with 6,930,000 during July. The demand for European woods has been normal.

It is stated in the Egyptian lumber trade that arrivals from either North Russia or the Black Sea are expected to be regular in the future with monthly arrivals estimated by the trade at about 4,000,000 board feet. August arrivals from Russia amounted to 3,950,000 board feet and the quality was reported satisfactory.

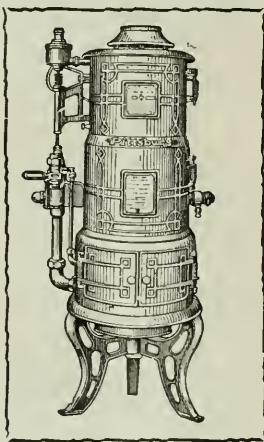
Tight credit conditions still prevail on the Egyptian lumber market with no signs of amelioration in the early future. Carloads of lumber from Alexandria to Cairo and other interior points during August totaled 2,587 as compared with 1,660 during July, 3,166 during June and 2,036 during May.

**RAILROADS ATTACK 8-HOUR DAY
ON GRADE ELIMINATION
WORK**

Constitutionality of the New York State law compelling railroads to pay the prevailing rate of wages and observe an eight-hour day on grade-crossing elimination work was argued before Justice Staley in the state supreme court on Oct. 18. Decision was reserved.

Whatever the decision, it is expected that the case will be carried to the highest court, and until it is finally decided no new projects for grade-crossing elimination work will be undertaken. This will automatically hold up the elimination of the West Side tracks in New York City, the \$32,000,000 elimination project in Syracuse, the \$5,000,000 program in Elmira and completion of the work in Buffalo.

E. B. McMaster, secretary of the Architectural Institute of British Columbia, has notified members of the organization that they are prohibited from taking any part in the competition for a civic center and grandstand for the City of Nelson, B. C., for which invitations to compete have been sent out.



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Thirtieth Year, No. 46



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HARDWARE MEN FIND SMALL ORDERS COSTLY

X-Raying various lines of products, analyzing functions in distribution, the National Hardware Association's Atlantic City convention declared war on waste, says The Business Week. Seven typical wholesalers were found to average 19,000 items in stock purchased from 1000 manufacturers; 40% of sales totaled less than \$10, cost of handling a ten-item \$20 order nearly \$1. Even in 1929, the boom year, average value per order was but \$20. Annual purchase of one-third the customers were less than \$100, and accounted for 2½% of total volume.

Of orders from retail customers, 23% amounted to less than \$5, contained 7.1 items each, and accounted for only 2.5% of total sales. Orders over \$50 carried 45.5 items and brought 54.4% of sales, the most desirable retail order amounting to \$10-\$15, carrying but 5.5 items and constituting 5% of total sales.

To determine the value of brands, 12 separate lines of hardware merchandise involving 273 brands and sizes were studied, 48% of the total accounting for 66% of inventory and 90% of total sales.

Items of stock turning but once a year ranged up to 25%. Salesmen brought in 70% of the business, and 80% of all sales were made on 50% of the items.

Studying lines were recommended to manufacturers and distributors, as means of waste elimination, building greater profits. One manufacturer reported profitable elimination of 304 items from a 665-item line. Another found but 370 actively sold, although 730 were carried. Several competing manufacturers divided slow-moving numbers, each eliminating many.

TIMBER REDUCED IN QUEBEC

A reduction of 50 per cent in stumpage dues on all burned timber in the Province of Quebec cut before March 31, 1931, for been announced by Premier Taschereau in order to decrease unemployment in woods operations, states a report from E. G. Sabine, Trade Commissioner at Montreal to the Lumber Division of the Department of Commerce.

It is understood that the Government of the Province of New Brunswick will also reduce stumpage rates on saw logs from \$3 to \$2 per thousand and board feet; and on other classes of timber by one third of the present rate, providing the Federal Government will assist in bearing resultant loss of revenue.

According to a report by the U. S. Forest Service, the manufacture of boxes requires more than 14 per cent of the lumber cut each year in the United States. Fiber containers take 7 per cent of all the wood pulp used in this country.

Basic Principles of "Concrete Making Coordinated" By Kitts

The first of a series of articles on "Basic Principles of Concrete Making Coordinated," prepared exclusively for publication in Building and Engineering News, by Mr. Jos. A. Kitts of San Francisco will appear in the next issue. Others will follow from time to time.

The series will comprise articles covering some fourteen new developments in proportioning and technical control of production.

With some thirty years practice in the proportioning, production and use of concrete and an exhaustive analysis of the record of concrete research, Mr. Kitts has solved many of the very abstruse questions of that research and advanced the scientific and practical knowledge of the physics and technology of concrete mixes by discovery of complementary principles discovered by past and contemporary workers in concrete.

MILLER HEADS SAN JOSE INDUSTRIES BODY

J. Lester Miller, attorney and assistant secretary of the Nucleus Building & Loan Association of San Jose was named president of the Building Industries Association at its formal organization meeting last Wednesday. John T. Maluvius of the Central Supply Company was elected vice-president, and L. C. Rossi, secretary-manager.

Directors are: A. L. Hubbard, lumberman; T. M. Wright, building and loan association officer; R. H. Borchers, building material dealer; Warren Holmes, hardware dealer; Fred Doerr, electrical dealer and contractor; William Serpa, plumbing contractor; R. O. Summers, general contractor, and Charles Hayward, lumber dealer.

Talks were given by Hilmar Peterson, San Francisco, and William A. Baylor, secretary of the San Jose Merchants' Association. By-laws were adopted and the code of ethics approved. The organization will have as its purpose the removal of elements detrimental to the best interests of the building industry.

Total income of the United States Steel Corporation for the quarter ended September 30 was \$37,995,339, against \$17,061,304 in the preceding quarter, and \$72,099,666 in the same quarter of 1929, the corporation announces. Directors of the corporation voted the regular quarterly dividends of \$1.75 each on the common and preferred shares, the common payable December 30 to stock of record December 1, and the preferred November 29, to stock of record November 3

PLUMBING RACKET EXPOSED IN DETROIT

The county grand jury at Detroit has turned its attention to a gang of alleged racketeers accused of having "Muscle in," on the Detroit plumbing business, set up a virtual reign of terror and extorted at least \$100,000 from their victims.

The first indication of the trend of the jury's newest line of investigation came when a detail of state and city police, acting under orders from the jury, raided the offices of the United Master Steam fitters and Plumbers Association and seized a carload of records. Two men and a young woman found in the offices were subpoenaed and taken before the jury immediately.

Louis J. Flint, executive vice president of the citizens committee of Detroit, and Pierce E. Wright of Detroit, secretary of the Associated Building Employes of Detroit, were credited with making the initial revelations. According to statements made by these men, the racketeers set up an organization whereby they were able to manipulate prices, contracts and credit under pain of violence.

WESTEEL PRODUCTS CHANGES FIRM NAME

The Westeel Products Company with offices in the Rialto Building, San Francisco, announces its name being changed to the Westates Products Company on account of two other firms claiming prior use of the name Westeel.

The Westates Products Company is the western factory branch for the following eastern manufacturers, namely: Knapp Bros. Manufacturing Company of Chicago, makers of Sanitary Metal Trim; the Reelvalador Co. of Grand Rapids, makers of the "Automatic Servant"; and the North Western Steel Products Company of Chicago, manufacturers of the well known Nemo expanded steel waste paper basket.

Arthur J. Swanson, manager of Westates Company, was formerly general sales manager for the North Western Expanded Metal Company of Chicago until their acquisition on April 1 last by the United States Gypsum Company. This prompted Mr. Swanson to establish his own company to represent the above named manufacturers as their exclusive western factory branch. The Westates Products Company is represented by dealers and selling agents in the principal cities throughout the eleven western states.

Cuba rail workers have notified their employers that no further reductions in wages will be considered or accepted. Further cuts will, they aver, result in a national strike.

INVESTORS SHY AT PUTTING FUNDS IN BUILDING CONSTRUCTION

With business revival dependent in large part upon pickup in construction, the difficulties confronting building finance command increasing attention. Though funds are pressing for investment in mortgages and a considerable demand exists for such funds, supply and demand are not, in many cases, meeting under conditions that lead to a "deal," says The Business Week.

Investment in building and real estate is under a shadow which affects many investors. Past malpractices and a hang-over of serious difficulties have hindered development. A brief review of some of the past abuses now coming to light is essential to an understanding of present difficulties.

Three methods of real estate finance are followed: (1) The mortgage may be purchased by a single investor—individual or institutional; (2) it may be handled through guaranteed mortgage securities, in which case an institution specializing in mortgage security origination guarantees securities issued against the mortgage; (3) a mortgage bond, or the so-called "split mortgage," may be used, wherein bonds are issued against the mortgage. Each method, in the order given, tends to lend more than the preceding one and to yield more to the investor. Competition results. The obvious tendency is for institutions engaged in these different types of financing to bid against each other in the amount to be lent. Though this tendency is accentuated by the desire for business in the present dull period, it is being well restrained. Here arises the more or less justifiable charge of unusual stringency in requirements for loans.

The difficulties in the third field form the greatest problem in the business and have cast a shadow over the virtue of all investments in real estate which has affected many investors. Of \$18 billions of such securities outstanding, about \$4 billions are in default. Investigation of these defaulted issues has revealed startling facts.

The Old Appraisal Game

Over-appraisal of property to be mortgaged has been perhaps the worst evil. In many states in which almost no restrictions exist to prevent overvaluation, the popularity of real estate bonds and the desire for business by originators of such securities have often led to creation of issues against property much larger than could be supported by the income. Cases have been revealed where the amount required for interest charges on the mortgage bonds exceeded by a large margin the income that could be expected to be derived from the property under the most favorable conditions.

Accompanying these defaults have come bondholders' protective committees formed to look after bondholders' interests. "Many have done praiseworthy work," one well-informed individual told The Business Week, "but too many have put their own interests far ahead of the bondholders they were supposed to represent. Had trustees always been alert to the interests of the bondholders many of the evils could have been avoided."

Lack of records and inadequate designation of securities has made difficult orderly organization in this field. Issuance of mortgage securities has been a mushroom growth

since the war, with almost no organization.

No Splits Wanted

The effect of all these practices upon current real estate financing has been decidedly unfavorable. Many investors distrust the split mortgage, or real estate bond. Chief among these are the institutional investors. With few exceptions, savings banks and life insurance companies want few or none of the bonds. Such mortgages as they cannot take in full they let alone.

There are still other difficulties. Very few properties upon which bonds are issued give investors any earnings' statements, leave them in the dark regarding financial progress.

Serious lack of marketability greatly hinders real estate securities. Sales are almost entirely "over the counter" with no very centralized counter. Forced sale may necessitate acceptance of a large discount. This lack of marketability limits the value of the security as collateral, since that is a primary requirement of the banks.

Mounting property taxes constitute a nether millstone. Taxes must be paid before income is available for interest payments, and steadily the amounts levied against real property by states, counties, municipalities, other taxing bodies increase.

Finally, the unstable value of the dollar is of great concern to investors in long-term securities. The lender may find after a few years that his loan in a stated number of dollars has lost all relationship with the value of the property expressed in dollars which fluctuated in value.

Three Ways Out

Three movements now under way may help real estate financing out of its troubles:

(1) The field of the guaranteed mortgage is expanding. Though the reputation of these securities is high, their issuance has, until recently, been largely confined to New York. Now it is spreading. Guaranteeing forces conservatism on the security originator, giving the securities a better base. Institutions doing business in this manner are experiencing a good demand.

(2) Marketability is being sought for real estate securities by organization of the Real Estate Securities Exchange in New York and by a similar group on the Curb Exchange in Chicago. Both have been formed this year and still are in the stages of very humble beginnings. Realization of their program, however, would aid greatly. They aim primarily at marketability, also at organization of records on real estate securities and better designation. They are trying to obtain earnings' statements from properties against which securities are outstanding.

(3) Determined efforts are being made to curb further increases in taxation on real estate. Chief among the protestants are the National Association of Real Estate Boards, the building and loan associations, the security exchanges, home owners' associations. Organized efforts to prevent increases are now being made in many cities.

gineers and land surveyors was given by the National Council of State Boards of Engineering Examiners at the eleventh annual convention, held in Richmond, Va., Oct. 20-21. This law is that compiled by a committee of the American Society of Civil Engineers in collaboration with committees from a number of other organizations, including all founder societies: the American Engineering Council and the American Association of Engineers.

A total of 30 delegates were present, representing 16 states, the American Society of Civil Engineers, the American Assn. of Engineers, and the American Engineering Council. Other topics considered at the meeting were: "The Status of Landscape Architects in Connection with Registration of Engineers," the codification of registration laws, and the reports of several committees. Two important committees were appointed, one to draft a suggested system of reciprocity in connection with the registration of engineers, headed by L. M. Martin, of Iowa; the other to investigate and compile suggested uniform examinations to be used by the various state boards for the registration of engineers. D. E. Steinman, New York City, is chairman. Both committees will report at the next annual convention, to be held in Detroit, Mich.

Officers elected at the convention were as follows: President, T. Keith Legare, Columbia, S. C.; vice-president, D. E. Steinman, New York City; secretary-treasurer, Dean P. H. Daggett, Rutgers University.

CO-EMPLOYEE NOT LIABLE FOR INJURY

Although an employee can recover compensation under the workmen's compensation laws for an injury sustained in the course of his employment, he cannot recover damages under the ordinary common law for injuries inflicted by negligence of a co-employee, says The Constructor.

In *Thompson v. Kleister*, 283 Pac. 1018, an employee was employed by a contracting company having a contract to perform construction work. While the employee was attending to his regular duties he was injured by negligence of another firm which had contracted to perform work for the owner. The employee, under the common law, sued the contracting company which caused the injury, but the higher court held the employee not entitled to damages saying:

"The relationship of master and servant exists where the employer retains the right to direct, not only what shall be done, but how it shall be done. . . . The purpose of the workmen's compensation laws is to make the industry prosecuted, if hazardous, bear the burden of human wreckage incident to its operation.

If they are engaged in the same general business and for the same general employers, they are in the same employ. We think under our statute that an injured employee cannot collect compensation from his co-employee, but in such a case the Industrial Commission has exclusive jurisdiction."

Engineering Examiners Favor Registration Law

Official endorsement of the uniform registration law for professional en-

TWENTY-FIVE CITIES REPORTING LARGEST VOLUME OF PERMITS FOR SEPTEMBER, 1930, WITH COMPARISONS*

	Sept., 1930	Sept., 1929	Sept., 1928	Aug., 1930
1. New York	\$ 29,282,503	\$ 31,674,925	\$ 57,649,387	\$28,371,352
2. Chicago	13,351,500	11,316,200	19,870,700	7,634,700
3. Los Angeles	6,629,761	6,629,710	8,565,327	6,194,577
4. Philadelphia	5,829,645	3,760,610	6,255,770	2,507,145
5. Detroit	5,106,257	9,928,308	10,567,879	3,770,956
6. Cleveland	4,276,957	2,087,520	2,028,725	2,882,250
7. Jersey City	3,479,525	2,030,770	1,295,035	182,715
8. Albany	3,092,025	642,925	1,295,233	1,179,268
9. Portland	2,781,430	1,862,845	1,281,225	1,039,010
10. Buffalo	2,678,213	7,490,606	1,329,321	1,058,605
11. Milwaukee	2,462,246	3,606,744	4,071,925	1,599,000
12. Baltimore	2,005,952	3,249,240	6,605,500	2,350,640
13. Long Beach, Cal.	1,962,190	1,044,085	2,041,460	1,201,535
14. Toledo	1,957,827	643,956	995,585	584,172
15. San Francisco	1,950,831	1,842,015	2,442,080	1,242,123
16. Dallas	1,920,189	768,992	700,768	941,165
17. Houston	1,873,506	1,622,669	1,904,054	1,342,092
18. Cincinnati	1,724,030	5,138,415	3,231,990	3,305,325
19. Seattle	1,628,990	1,444,190	1,474,210	1,567,225
20. Boston	1,365,065	1,507,950	4,002,188	1,754,379
21. St. Louis	1,345,645	2,403,764	2,911,732	1,287,001
22. Minneapolis	1,285,615	1,076,590	2,234,985	1,123,985
23. Richmond, Va.	1,158,022	270,478	295,576	802,268
24. Washington	1,077,810	3,232,900	3,967,155	2,296,620
25. Oklahoma City	1,044,050	3,905,715	1,463,125	2,010,400
	\$101,132,905	\$109,181,952	\$148,126,835	\$78,628,443

*Compiled by S. W. Straus & Company.

PACIFIC COAST BUILDING TOTALS

City	October	Year to Date	September
San Francisco	\$2,292,000	\$19,150,000	\$1,950,000
Los Angeles	5,308,000	64,021,000	6,662,000
Long Beach	1,964,000	12,136,000	1,962,000
Seattle	1,533,000	22,777,000	1,428,000
Spokane	800,000	3,182,000	183,000
Portland	593,000	10,390,000	2,781,000
Oakland	495,000	7,854,000	523,000
San Diego	431,000	4,797,000	443,000
Tacoma	205,900	4,056,000	243,000
Sacramento	187,000	2,630,000	243,000

MAIL ORDER HOUSE WILL FINANCE HOME MODERNIZATION

Development of a considerable volume of small-home construction and repair work is expected to follow the announcement by Sears, Roebuck & Co. of an unusually liberal home modernization financing plan, says The Business Week. Sears, Roebuck will finance any repairs, alterations, or improvements minimum cost \$100 for both materials and labor, for 10% cash and the balance in monthly payments extending as long as 24 months.

Experimentally the plan will be limited to a 50-mile radius from New York. Special home modernizing, architectural, and job-fitting branches will be opened in White Plains, New Rochelle, and Jamaica, N. Y., and in Newark, Hackensack, and Paterson, N. J. If successful the plan will be extended to other large cities throughout the country.

During 1929, in the New York area, Sears, Roebuck started to supply materials and labor and occasional financing for 4 major classes of house repair—heating, plumbing, roofing, and garages. Now the plan includes every type of modernization work: built-in improvements from oil burners to ironing boards; new plaster walls, new wall paper, new floors or floor covering; exterior improvements such as storm sash, sun rooms, new roofs, side walls. Sears, Roebuck will act as general contractor and will supply all architectural service, financing, and materials. Local labor will be used exclusively.

Similar plans, but on a more limited scale, have been successfully offered recently by several suppliers of home equipment. Most noteworthy have been those of American Radiator & Standard Sanitary Mfg. Co. and of Certain-Teed Products Corp. These plans have been confined chiefly to work calling for products supplied by the companies, such as heating, plumbing, re-roofing, and painting, and generally have required a minimum expenditure of \$500 on repair work.

This latest Sears-Roebuck development is a logical outcome of its new home building and financing plan announced last January. This has been so successful that, despite the continued and unprecedented lag in residential construction generally, Sears, Roebuck reports that its operations under the new plan have surpassed in number of homes built and volume of material sold all previous records during the 18 years the company has been supplying ready-cut homes and building materials.

Additional evidence of the popularity of this type of financing, by which usual difficulties in obtaining funds for modernization are lessened, is the report that during the first half of 1930, American Radiator Co. did about \$3,000,000 worth of heat-remodeling business alone on jobs averaging about \$600 each. Its plumbing remodeling jobs are reported to be about \$300 each.

AVOID COURT AND SEEK ARBITRATORS

Daily Pacific Builder, issue of October 20, under caption, "Who Knows?" asked solution of the General Contractor in the following position:

A sub-contractor signs an agreement with a contractor whereby he agrees to fulfill his work according to plans and specifications together with approved shop drawings, an on completion of work signs with general contractor, for the owner, a guarantee giving owner right to charge and collect for any defects in material and workmanship occurring within the 1-year period.

Owner claims that sub-contractor deviated from approved shop drawings and is demanding reparation for alterations from contractor.

Sub-contractor claims all his work was done with the approval of the inspector and disclaims all responsibility concerning alterations and repairs.

Can general contractor, should he have to make repairs, collect from the sub-contractor?

E. T. Thurston, San Francisco consulting engineer, furnishes the following comment:

The General Contractor is responsible to the Owner for all work embraced in his contract, whether sublet or not. Insofar as the work of the Sub-Contractor has the formal approval of the General Contractor or his authorized representative, he is legally in the clear, regardless of representations of the Owner. If, however, the Sub-Contractor neglects to obtain formal approval of Contractor, it may easily be just too bad for him, also regardless of the attitude of the Owner. There should be no direct dealings between the Owner and the Sub-Contractor except with the knowledge and consent of the General Contractor. The Owner is responsible for the decisions and orders of his inspector; responsible to the Contractor but not to the Sub-Contractor. The answer to your question would therefore be that the Contractor may legally collect from the Sub-Contractor for repairs or replacements due to material or workmanship unsatisfactory to the Owner only to the extent that the Sub-Contractor is at fault for not complying with the terms of his contract with the Contractor.

Theoretically the matter is simple but practically the business of building is very complicated and replete with technical pitfalls for all parties concerned. Such cases should be submitted for adjudication by a board of arbitrators composed of men experienced in the technique of building. By all means avoid if possible going to court about it.

PRODUCTION OF METAL DOORS SHOWS INCREASE

An increase of 2.7 per cent in the value of metal doors, sashes and window sash and frames in 1929 over 1927 is reported by the Census of Manufacturers following a preliminary tabulation of the data collected to date in the 1930 census. The figures show that the value amounted to \$87,-044,275 in 1929 as compared with \$85,-275,973 for 1927, the last preceding census year. The number of establishments included in the census is 134 with \$,747 wage earners receiving \$15,739,918, the percentage of increase over 1927 being respectively, 14.5, 8.7 and 1.1.

THE OBSERVER

What He Hears and Sees on His Rounds

The four-point program to promote conservation of lumber has been presented to President Hoover by the National Lumber Manufacturers' Association. The program, offered by A. C. Dixon, president of the association, and Wilson Compton, executive secretary, included: A request that Attorney General Mitchell define the anti-trust laws so manufacturers would know what agreements can be made legally. Establishment of a labor conservation board. Application of the convict labor provisions against Russia importations. Close contact with the national forestry service.

Development expenditures of the Pacific Gas and Electric Company have exceeded by more than \$500,000 a month the amount pledged to President Hoover in his program for unemployment relief, according to a report by A. F. Hockenbeamer, president. The amount pledged was \$35,000,000, whereas actual expenditures will reach nearly \$40,000,000.

The American Institute of Steel Construction will take steps at once to encourage architects to design residences in steel. The Institute will feature annual architectural competition to further such construction. This was voted at the recent annual convention of the Institute with the passage of the following resolution:

Whereas, the steel construction industry is keenly alive to the advantages of building residences of steel, and

Whereas, technological problems have so far prevented most of the fabricating plants from engaging in this kind of work, and it is probable that steel framing and other requirements for residence work when once established will bring almost a new industry into being; it is, however, decidedly to the best interests of the steel construction industry that full encouragement be given the steel residence.

Several hundred residences have been built during the past year or so with steel framing. Some excellent pioneering work has been accomplished. Much more can and should be done. The field of national pioneering for the steel residence is one which only the American Institute of Steel Construction can with propriety engage in, therefore be it

RESOLVED, That the American Institute of Steel Construction take such steps immediately as the Board of Directors deem expedient to encourage architects and builders to design residences in steel, by means of annual architectural competitions, the publication of approved designs for steel residences, and the general dissemination of literature on the problems of steel house design and erection.

Civic bodies of Stockton are urging the appointment of a port manager for Stockton's \$6,000,000 deep water project. Several prospective managers have been recommended to the city council and it is understood that Col. B. C. Allin, director of the port

of Houston, is preferred, if he will consent to accept the position. This is indicated by the recent action of the city council in appointing Allin consulting engineer in connection with the development at a salary of \$100 a month.

Unfilled orders of the United States Steel Corporation increased 57,425 tons in October to a total of 3,481,763. In September a decrease of 155,866 tons was shown. The backlog of September 30 was 3,424,338 tons. On August 31 unfilled orders aggregated 3,580,204 tons. On July 31 the total unfilled tonnage was 4,022,055, and on October 31, 1929, unfilled orders amounted to 4,086,562 tons.

To the eight thousand or so employees on the payroll of his construction company, Irwin S. Chanin, New York builder, said:

"You, like other wage earners, have been saving your money for a rainy day instead of buying things you need, because you have been afraid you might lose your jobs. That rainy day hasn't come and we believe it will not.

"In return for our assurance that your job looks safe, buy that new clothing, that household furniture or whatever you would be buying if times were normal. Buy now because prices in most lines are at rock bottom and because your buying, with that of other wage earners, will bring us all back to prosperity.

"Think and work with enthusiasm and without worrying about the depression."

Fear of unemployment by persons now employed is largely unfounded. Mr. Chanin said, since most of those who still have jobs will keep them.

Opposition to the plan of the Chico High School Vocational Education Department in allowing students to build homes as a part of their training in the woodwork, was expressed at a meeting of the Board of Education by H. T. Brooks, contractor. The loss of work because of student building homes has been keenly felt this year, Brooks told the Board. He criticized the brand of work turned out.

Substantial increases in October building permits in several Pacific Coast cities were shown in figures compiled by S. W. Straus & Co. Permits issued during October of this year were larger than either the previous month or the corresponding month of last year in Seattle, Spokane, Long Beach, Beverly Hills, Monterey, Santa Barbara, Ontario, Ventura, Redlands, Pomona, Santa Rosa, Bellingham, Washington and Logan, Utah.

San Francisco, whose permits totaled \$2,295,216, showed an increase over the previous month's total of \$1,950,830, but was slightly behind the same month last year, when permits reached \$2,444,543.

Increases over the previous month, although not as large as October 1929, were also registered by Fresno, Glendale, Santa Monica, Stockton, San Mateo and Reno. Long View, one of the cities of Eureka and Santa Ana both exceeded October of last year, although their totals were not com-

parable with the previous month.

Spokane, with permits of \$800,000 in October 1930, compared with \$183,589 in September and \$559,427 in October, 1929, was outstanding among the larger cities in proportionate growth. Seattle, too, reported permits of \$1,533,340 compared with \$1,428,990 in September and \$1,228,645 in the same month of last year.

Long Beach permits of \$1,964,630 were slightly larger than the previous month and substantially ahead of October 1929, which totaled \$1,367,545.

In other important cities, however, figures reveal declines from preceding reports. Los Angeles, whose permits amounted to \$8,189,199 in October of last year, and \$6,662,761 in September this year, showed a total of \$5,309,181 last month. Oakland, with \$495,317, was slightly behind the previous month of \$532,586 and compared unfavorably with the same month last year, which totaled \$1,470,810.

Portland, which had on the previous month registered a sharp increase to \$2,781,410, reported permits of \$604,216 in October this year, which compared with \$1,614,553 in the corresponding month last year.

WOLVERINE CABINET NOW BEING MARKETED

Among recent developments of the Wolverine Tube Company, of Detroit, is a Cabinet Unit Heater, which provides an intake through the wall of the building as an alternate source of air. A straight, square damper permits either one or both air inlets to be used at the same time. Summer ventilation with outside air is therefore possible as well as winter ventilation with inside air.

Immediately above the air inlets is a steel wood air filter. This is readily removable for cleaning. Flying dust which has been counted as a disadvantage of forced circulation is thereby eliminated. Likewise the air filter is of great utility in commercial and industrial sections when outside air is desired. The capacity of the vertical flue or cabinet is sufficiently great so that the full action of the Unit Heater mounted at the top, is not interfered with.

A standard Wolverine Unit Heater is used. It has aeroplane-type fan, individually adjustable louvers, a handy off and on switch. The cabinet has a flush, panel door through which the motor of the heater may be reached. The heating effectiveness of the Wolverine Unit Heater depends on several features which are unique. Seamless copper tubing with generous copper fins runs in single lengths from multiple bronze inlets to multiple bronze outlets. There are no joints except the end connections and these are silver soldered. The tubing is arranged horizontally in non-abrasive saddles and at such an angle as to be completely self-draining. These full floating coils automatically take care of expansion and contraction. The Unit is designed for hot water, vapor or steam and is considered serviceable even on high pressure lines. A maximum transfer of heat to a maximum volume of high velocity air gives this Wolverine Unit Heater a high rating of heating effect and assures an unusually uniform distribution in the area to be heated.

Various sizes of the complete Wolverine Cabinet Heater are already available to the trade.

The manufacturer recommends the use of this triplet combination unit even in offices, since it is very quiet in operation and may be finished to match the scheme of interior decoration. The net cost per square foot of radiation is estimated to be considerably less than one dollar, according to Wolverine officials.

TRADE NOTES

Keystone Construction Co., of Oakland, capitalized for \$100,000, has been incorporated. Directors are: Chas. K. Harper, San Francisco; Gay Lombard, San Francisco, and Leo Berche, Oakland.

Through the establishment of branch offices of their San Francisco factory branch office, the Reading Chain & Block Corporation of Reading, Pennsylvania, are now represented in Los Angeles. H. H. Knowles, who established the Pacific Office here, which is headquarters for the Western States, will supervise the new office and warehouse located at 2144 East 7th St., Angeles, for which A. A. Grant has been appointed his assistant. The San Francisco headquarters and warehouse is located at 625 Third St.

International Pole Co., Ltd., authorized to capitalize for \$1,500,000 to buy timber and market it from San Francisco for poles and piles, has filed articles of incorporation with the Secretary of State at Sacramento. Directors are Leander L. James, J. N. Flowerman, Charles Wall and Scott Hendricks of San Francisco and M. G. Thomb of Vancouver, B. C.

Spencer Turbine Company of Hartford, Conn., has opened a direct factory branch office at 656 South Los Angeles Street, Los Angeles. The company manufactures the heavy duty Spencer Central Vacuum Cleaning System and Portable truck systems as well as Turbo Compressors for industrial use and organ blowers for pipe organs. The Los Angeles office will have charge of all business on the Pacific Coast. H. M. Grossman is Pacific Coast manager.

Sierra Equipment Corp., exclusive distributor of the products of the Oliver Iron & Steel Corporation, Pittsburg, Pa., now carries large stocks of Oliver pole line construction materials in warehouses at San Francisco, Los Angeles, and Seattle, according to L. Q. Trumbull, secretary-treasurer of the corporation. These stocks include a line of copper ground rods recently placed on the market.

Merger of the Carrier Engineering Corporation of Newark, N. J., the Brunswick-Kroeschell Company of New Brunswick, N. J., and Chicago, and the York & Ventilating Corporation of Philadelphia, each one of the largest concerns respectively in the air conditioning, refrigerating, and unit heating and ventilating industries has just been announced. Including subsidiary and affiliated concerns, the merger will unite fifteen companies, five of them foreign, with total assets of approximately \$15,000,000.

The Hoffman Specialty Company of California, Ltd., has been formed to take over the electric heater manufacturing business of the Hoffman Specialty Company of Waterbury, Conn. Headquarters for the new company will be in Los Angeles at 612 Architects Building, although a new factory has been opened in San Francisco. The Eastern company will continue to manufacture steam heating specialties. Officers of the new company are George D. Hoffman, president; Harry H. Daley, vice-president and sales manager, and Potter Bowles, treasurer.

HERE — THERE — EVERYWHERE

Albert Coons of Los Angeles filed \$10 or two days in jail for installing plumbing without having a certificate of qualification as a plumber.

Berkeley Electrical Dealers' Association will shortly appoint a new secretary. It is announced by Al Smith of the Smith-Erickson Electric Co. of Berkeley, president of the association.

Various changes in the uniform building code, recommended for adoption by Ernest H. Rogers, city building inspector, and pertaining chiefly to apartments house construction, have received the approval of the city council.

Fred G. Stevenot, director of natural resources, reports that the amount of lumber cut in California in 1929 increased 5.6 per cent over 1928. In the pine region the cut was nearly 1,500,000,000 board feet and in the redwood region nearly 600,000,000 board feet.

At the Seventh Annual Convention of the Southwestern Section, International Association of Electrical Inspectors, held in Pasadena last month, co-operation was urged with the Pacific Coast Building Officials' Conference on unity of rulings governing the construction of moving picture booths and film storage rooms.

Erwin M. Lurie, civil engineer, and for the past nine years assistant to the commissioner, has been promoted to the position of Acting Commissioner of the Associated Metal Lath Manufacturers with headquarters at Chicago. Mr. Lurie has had a wide experience in the construction industry.

City council of Roseville, Placer County, contemplates adoption of a new electric wiring ordinance, one section of which will establish a license fee of \$50 a year for electrical contractors and make it compulsory for such contractors to pass an examination as to qualifications to engage in such business.

The Denver Electrical Contractors Association recently established a quantity survey bureau for the benefit of its members in an attempt to stabilize competitive bidding and to avoid mistakes in estimating. Lee Matton has been engaged as estimator in charge of the bureau. Quantities of materials and unit hours of labor are estimated, but no pricing whatever is done by the bureau.

"Industrial, Technical and Architectural Finishes," a 26-page booklet issued by the Norfolk Paint & Varnish Co., Norfolk Downs, Mass., contains information valuable in the solution of painting problems relating to the maintenance of interior and exterior surfaces in industrial plants, railroads, public buildings and homes.

Structural advantages of Naylor spiral-weld Tufcon iron pipe, as demonstrated by laboratory tests are indicated in a 44-page illustrated bulletin 30-2 published by the Naylor Pipe Co., 1230 E 92nd St., Chicago, Ill. Illustrations show many installations of this pipe under widely varying conditions.

ALONG THE LINE

W. C. Heli of the Columbia Lumber Company of Seattle, Wash., was a visitor on the floor of the San Francisco Builders' Exchange last Monday.

Henry Bosch Jr., formerly chief draftsman in the engineering department of the Pacific Gas & Electric Company, San Francisco, has been appointed chief of drafting and reproduction of that department.

Earl O. Mills, a member of the firm of Bartholomew and Associates, employed to prepare a planning ordinance for Stockton, is in that city and will present a tentative draft of the ordinance to the City Planning Commission shortly.

C. E. Strickland, deputy state engineer of Oregon, has been appointed acting state engineer, due to the resignation of Rhea Luperc. Mr. Luperc resigned when criticism was directed to the business affairs of his office. He became Oregon state engineer in 1923.

Hoskins Manufacturing Co. of Detroit, Mich., manufacturers of resistance wire, electric furnaces and pyrometers, has appointed E. A. Wilcox its California representative. Wilcox will maintain headquarters at 273 Seventh St., San Francisco.

Harry Lutgens, publisher of the San Rafael Independent, has been appointed as Marin County's second director of the Golden Gate Bridge and Highway District. Lutgens' appointment was the result of a district provision that any county with more than 40,000 population is entitled to two directors. Marin passed the 40,000 mark in the recent census.

Earl S. Casey, construction engineer residing at Escondido, has filed application with the Oakland city council seeking appointment to the position of city manager. Casey tells of his engineering experiences in the United States and in Canada, and recommends that he be appointed as it is best to have a man as city manager who has not lived in Oakland. The reason, he sets forth, is because he would not be biased by local influences and opinions.

Charles F. W. Herrmann, 84, Santa Clara County engineer for three years and one of the pioneers of the Santa Clara Valley District, died at his home in Saratoga November 11 after an illness of several months.

Herrmann came to California in the spring of 1869 by way of the Isthmus of Panama. He and his brother, A. T. Herrmann, since dead, founded the firm of Herrmann Brothers, surveyors and civil engineers. Later he was in the employ of the Southern Pacific at Sacramento, and on returning to San Jose devoted all his time to the interest of Herrmann Brothers.

C. L. Mullen, 37, former assistant manager of the Sugar Pine Lumber Company at Pinedale, Fresno County, died in a Portland, Ore., hospital Nov. 8, following an operation. Mullen was assistant manager at the Pinedale mill for three years and was well known in lumbering circles along the Pacific Coast. He is survived by his widow, his mother and a brother.

ENGINEERING SOCIETIES EMPLOYMENT SERVICE

Further information regarding positions listed in this column is obtainable from Newton D. Cook, Room 715, 57 Post Street, San Francisco. (Phone 8Utter 1684).

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Burlingame	9	31,615	117,982
Carmel	8	7,625	8,685
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Coronado	5	10,895	119,410
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Eureka	35	20,672	17,401
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A. S. T. M. REORGANIZED— OUTLINES FUTURE PROGRAM

At a meeting in Washington last month, Committee C-1 on Cement of the American Society for Testing Materials effected a reorganization and prepared a preliminary program of work for the coming two years.

During the past year the Committee submitted to the Society a tentative specification for High Early Strength Portland Cement and an upward revision of the standards for Portland Cement. Both of these have been adopted by the Society and are now in effect.

With this new tentative standard and the revised standard in force, the committee believes that the opportunity is ripe for rather more fundamental and detailed studies of these two most widely used hydraulic cements, and of the masonry or plastic cements, whose use is growing so rapidly, than was possible with the organization under which the committee had functioned for so many years. A letter ballot almost unanimously approved a reorganization along certain suggested lines. The meeting referred to was to carry into effect these approved suggestions.

The outstanding feature of the new plan of committee operation, places the investigations of each type of cement and the preparation of a standard under a separate sub-committee. For the present, therefore, there will be a sub-committee on Standard Portland Cement, one on Masonry Cement, and one on all High Early Strength Cements—both of the Portland and High Alumina Type. Another sub-committee will have the duty of preparing the standards for methods of test. This is essential, since the Society will issue the methods of test as separate publications from the physical and chemical requirements for all hydraulic cements. This sub-committee will not indicate to the other sub-committees what methods they should use, but rather will help the other sub-committees develop and refine the methods they sired requirements, and further make as uniform and co-ordinated as possible think are needed to indicate the de-

sible the testing methods for all hydraulic cements.

In planning future work, the committee believed it desirable to throw off the shackles of precedent and past history. With two new standards just in effect, there is time at hand to make extensive studies of the sometimes considered radical new test methods suggested by progressive users and producers. It was not believed desirable to study any method or requirement simply because it was one of long-standing. Rather studies should be made of those requirements which are believed to be indicative of a needed property in the cement. Further, a needed property would be considered one which would indicate to the dependment of the cement in use over a long period of time or under possible adverse conditions rather than that one which would indicate laboratory differences in cements.

The total membership of the committee is limited to seventy-five, in order to lessen the danger of its becoming slow, unwieldy, and inefficient, but it will welcome at all times, and especially now when the sub-committees are developing new programs of investigational work, suggestions from all those interested in the testing and using of cement. The committee would be very glad to have comments as to the types of tests which should be studied, data indicating the adequacy or inadequacy of present methods, suggestions as to specific requirements, and in fact anything that an interested party would consider of value to the committee.

To complete the reorganization required by the new by-laws, the election of the officers made at the June meeting was confirmed. The committee will continue under the chairmanship of P. H. Bates, Bureau of Standards, Washington, D. C.; secretary, F. H. Jackson, U. S. Bureau of Public Roads, Washington, D. C.; and A. C. Tagge, Canada Cement Co., Ltd., Montreal and R. B. Young, Hydro-Electric Power Commission of Ontario, Toronto, as vice-chairman.

between the spring wood and summer wood in a single board than there is between average boards of different woods.

"The density, or weight per unit volume, of a softwood board measures roughly its ability to hold paint coatings, because boards are heavy or light according as they contain much or little summer wood. However, if a board has many annual growth rings per inch, it may have the summer wood confined to narrow bands and yet be moderately heavy. Such boards hold paint far better than boards of equal weight cut from more rapidly grown trees, in which the summer wood is present necessarily in wide bands. Fairly probably, therefore, depend chiefly upon density and texture considered together. Light boards and boards of fine texture hold paint better than heavy boards and boards of coarse texture."

It thus appears that until more permanent bonding agents between pigment and summer wood can be developed, a shorter life for paint on surfaces of coarser texture must be allowed for.

Other Durability Factors

On the same principle of texture it is shown that edge-grained boards hold paint better than flat-sawn boards, particularly in material of strongly contrasting grain. Evidence is adduced that the extractives in certain woods are favorable to long paint life, and those in other woods unfavorable, particularly for certain kinds of paints. Select grades of lumber, because of absence of knots, etc., are more satisfactory to paint than common grades. Boards painted on the "pith" side (surface grown nearer heart of tree) sometimes tend to break up the paint coating by "shelling out" of the grain, but boards painted on the "bark" side rarely do so.

Suggestions are offered in the leaflet for the selection of lumber and its placement in the structure in keeping with painting characteristics. While the supply lasts, copies of Leaflet 62-L, Why Some Wood Surfaces Hold Paint Longer Than Others, may be obtained without charge from the Office of Information, U. S. Department of Agriculture, Washington, D. C.

"VESICUL LITE" IS NEW CLAY PRODUCT

"Vesicul lite" is the name and trade mark of an interesting new inflated light burnt clay product that seem destined to play a star part—at least in Southern California clay industries in the vicinity of Hollywood—"Vesicul lite" is in the form of cellular hollow inflated clay balls of aggregate size—with a hard solid outer shell of fire clay as tough as paving brick, it can be made four to seven times lighter than ordinary brick, and 60% to 70% used with clay to make brick as light as necessary.

The various features of the process and product are the sole invention of Dr. Knox Harding, a veteran ceramic engineer of Chicago, Ohio and New Jersey, who has been in California (542 S. Fremont Ave., Los Angeles), adapting his inventions to local clays during the last two years.

All of the features are covered by hundreds of U. S. Patent claims, many of the most important of which have been allowed and others of which are still pending.

The largest rotary ceramic kiln in the world, firing a million a minute of the finished units, has been in operation intermittently since last Thanksgiving day at the Alhambra Plant of the Harding Licensee—and four more kilns are understood to be under construction.

LABORATORY STUDY ON WOOD PAINTING RESULTS PUBLISHED

Conclusions of the Forest Products Laboratory's 5-year study of the painting of softwoods are briefed by Dr. F. L. Browne, chemist in charge of the investigation, in U. S. Department of Agriculture Leaflet 62-L, just published.

Under otherwise comparable conditions, paint coatings were found to last nearly twice as long on some kinds of wood surfaces as on others. This variability in behavior can not be overcome or even materially reduced by adjusting the proportions of paint, oil, and thinner in the priming-coat mixture for different woods, the experiments indicate.

Summer Wood vs. Spring Wood

The difference in paint behavior on different woods is largely a matter of the proportion of summer wood and spring wood and in the problem is explained as follows:

"The painting characteristics of a board depend primarily upon the amount and distribution of summer

wood in it. Summer wood is the dense, horny, dark-colored portion of the annual growth ring, formed in the tree late in the growing season. It is made up of wood cells with very thick walls and small cavities and is in this sense much less porous than the spring wood, which is composed of cells with thin walls and correspondingly large cavities. Although liquids move more readily through the dense summer wood and paint oils are found to penetrate more deeply there, paint coatings do not seem to secure so firm an anchorage on summer wood as on spring wood; as a result, coatings exposed to normal conditions of weathering flake from the summer wood, leaving it bare, while the spring wood still remains well covered. All native softwoods contain both summer wood and spring wood, but the proportions vary in different woods and in different boards of the same wood. There is, in fact, a greater variation in painting characteristics

PROBLEMS HAMPERING INDUSTRY BEING WORKED OUT BY A. G. C.

Transformation of the construction industry from one of haphazard and "Topsy" growth to a key industry functioning on sound and carefully worked out economic principles is rapidly being accomplished. Edward J. Harding, managing director of the Associated General Contractors of America, announced upon his return from the association's fall executive board meeting October 6, 7 and 8, at Rye, New York.

"Reports submitted at our fall board meeting show without doubt," Mr. Harding said, "that solutions to the majority of the problems that have plagued and hampered the construction industry for years are now being definitely worked out and successfully applied, and that from now on increasing benefits to the building public and to business in general may be confidently anticipated."

The board found, Mr. Harding said, that definite progress has been made in securing national recognition of the economic importance of the function of general contracting not only in the construction industry, but also as a factor affecting national economy in all its phases, and that the three major programs for assuring to the public skill, integrity and responsibility in construction operations have been greatly advanced during the past year.

Officers Nominated

The progress has been so marked, he said, that the executive board broke all precedent at its Rye meeting by unanimously nominating Anton E. Horst, of Philadelphia, Pa., and Rock Island, Ill., and James E. Cashman, of Burlington, Vt., to succeed themselves as president and vice president, respectively, of the national organization for 1931 in order that they may carry on to completion the work which they have so successfully advanced.

The nominations will be voted upon at the association's twelfth annual convention to be held during the week of January 25, in San Francisco.

The three phases in which striking progress has been made, Mr. Harding said, are those dealing with the prequalification of bidders on public work to insure a procedure whereby unqualified contractors may not inflict thereby their work on the public; the establishment of an impartial fact-finding Bureau of Contract Information to provide accurate data on the past performance records of all contractors proposing to do either private or public construction; and the establishment of a sound credit structure whereby the operations of contractors may be checked up with regard to the manner in which credit

operations are being currently met.

Prequalification

It was reported that a total of 14 States, in addition to many municipalities, have adopted the principle of prequalifying bidders and that a standard enabling act providing for prequalification is to be pushed at forthcoming legislative sessions in other States. The development of the Bureau of Contract Information was extensively analyzed as marking the definite advancement of the program to enable those responsible for the awarding of contracts, the granting of credit or the writing of surety bonds to determine the past performance of all contractors so that irresponsibility and cut-throat competitive practices may be curtailed.

Definite strides also were reported on the program for establishing a standardized method of stabilizing credit throughout the country. The board was told that a series of conferences held with other national organizations in the construction field during the past few months has resulted in the formation of a co-operative organization, the Allied Construction Industries of America, for the sole purpose of developing credit stabilization. Although many details of this organization are yet to be worked out, it was reported that the objectives and fundamentals have been approved by all leading national associations of those agencies connected with the construction industry, and that the exertion of its influence will be felt in the near future.

In three fields of endeavor reports made to the Executive Board indicated, Mr. Harding said, that progress had been retarded due to difficult obstacles or to circumstances as yet beyond the control of organized general contractors. These are the establishment of a sound merchandising structure; a constructive solution to the menace of prison labor in construction; and construction acceleration.

"The program of the Associated General Contractors for the acceleration of construction," Mr. Harding stated, "has not yet received the consideration and support it is entitled to by all the other factors involved, and recent events in connection with the formation of Secretary of Commerce Lamont's Permanent Conference on Construction and President Hoover's planning committee on Home Building and Home Ownership give promise of an early acceptance of this program which the association believes will be the key to increasing business volume, but in insuring that increased volume will be performed on a sound contract basis."

be amended to say "Sole owners of property building structures thereon for their own use; provided, however, that persons, etc. who build structures for speculation or for sale and not solely for their personal occupation, shall be deemed contractors under the terms of this Act."

3. Section 2, subdivision (f), eliminate. (The \$200 exemption clause).

4. Section 4. Provide some method for the issuance of a list of licenses, at least annually, within a specified period, and for the issuance of supplements thereto weekly, to be placed in specified localities. If this adds materially to the cost of the Department's operation, the license should be increased to cover it. The supplements should contain notations of cancellation, revocation, suspensions and other changes in status of licenses.

5. Section 5. The fees collected by the Department should remain under the control of the Department for future operation, subject only to the control of the Legislature.

6. Section 9. There should be added to the cause of discipline at least one other, to-wit: Section "(5) Failure to keep true books of account."

This is a fundamental rule of bankruptcy practice and it seems to me incredible that this provision was stricken out of the first draft of the Act which I made. No person has any business in organized business society dealing with the public as a contractor, unless he keeps a record of his business transactions.

7. I would suggest another change in Section 9, to-wit: that the registrar should not even suspend a license without issuing an order to show cause, permitting the licensee to appear and make at least a perfunctory showing on his own behalf. I am afraid that without a change in the structure of Section 9 that it might eventually be declared unconstitutional if the question is squarely presented, as depriving a person of a property right, without due process of law.

8. Section 12 could be very much strengthened if a thought expressed about as follows could be added to it:

"Subdivision (1) Any person, firm, corporation, etc., acting in the capacity of a contractor, or conspiring, aiding, abetting, conniving, participating or assisting another person, firm, etc., in any violation of any provision of this Act, or knowingly violating the proceeds of the violation of any portion of the Act, shall be guilty."

If some changes along this theory could be made in Section 12, it would have a profound effect in reaching, on the theory of conspiracy, cheap finance companies and unethical so-called realtors, who in the first and second and third grade contractors to do their dirty work, letting the contractor take his punishment if needs be, but sitting by and enjoying all sorts of commissions and usurious and irregular profit from various financial schemes. It would also reach owners, naturally, who used irregular contractors with the same idea. I commend this last thought to you as being of special importance.

Any large increase of building activity in the coming year is going to new difficulties, unless this Act is strengthened.

Timber in California was first commercially used for lumber in 1813 by the Russians, who emigrated from Alaska to Fort Ross. The first regular wharf saw set up for manufacturing lumber was at Bodega in 1835. Today the lumber mills of California manufacture annually two billion board feet of lumber, of which 400 million board feet is cut on the national forests of the State.

SUGGESTED CHANGES IN STATE LICENSE LAW FOR CONTRACTORS SUBMITTED

J. W. Morin, Pasadena attorney. In a personal letter to James F. Collins, director of the State Department of Professional and Vocational Standards, suggests certain changes in the Contractors' License Law. These suggestions, as published in the current issue of the Pasadena Builders' Exchange Bulletin, are published herewith.

We are frequently finding in practice that unlicensed persons or persons whose licenses have expired, make bids upon work and get their licenses afterwards. Close questions have arisen, particularly in school contract jobs, and under the language of the Act, it now permits persons to offer bids, even though not contractors, so long as they have a license by the time they execute an agreement to build. Most related laws licensing other classes, like lawyers, realtors, etc., prohibit one to represent themselves as such a person as holds a license, without actually holding the license.

2. Section 2, subdivision (e), might

1. Amend Section 1 so as to make it unlawful for any person, etc., either to engage in business "or to hold themselfs out to be a contractor," etc.

Building News Section

APARTMENTS

Sub-Contracts Awarded.
APARTMENTS Cost, \$150,000
SAN FRANCISCO. Pacific Ave. and
Baker Street.

Three-story steel frame and concrete
semi-fireproof apartments (six 6-
room apts.)

Owner and Builder—W. R. Voorhies,
Inc., 369 Pine Street.

Plans by A. D. Jaussen, 369 Pine St.
Plumbing—Scott Co., 243 Minna St.
Brick—Wm. Rainey, 323 Clementina.
Ornamental Iron—F. Kern & Sons,
517 6th St.

As previously reported mill work
awarded to Sunset Lumber Co., 400
High St., Oakland; structural steel to
McClintic-Marshall Co., 2050 Bryant
St.; reinforcing steel to Concrete En-
gineering Co., 1280 Indiana St.

Contract Awarded.
APARTMENTS Cost, \$50,000
SAN FRANCISCO. SE Pierce and Un-
ion Streets.

Three-story and basement frame and
stucco apartment with tile roof (5
5-room apts.) and 11-room resi-
dence with 3 baths (70x70-ft.)

Owner—W. J. Raffetto, 401 Columbus
Avenue.

Architect—Albert Schroeffer, 681 Mar-
ket Street.

Contractor—Fraccia & Truffelli, 2450
Chestnut Street.

There will be two separate entrances
to the building. Steam vapor heating
system and all modern conveniences.

Structural Steel Contract Awarded.
APARTMENTS Cost, \$175,000
SAN FRANCISCO. Green Street near
Octavia Street.

Six-story class A steel frame and
concrete apartments (112 rooms).

Owner and Builder—F. L. Hansen, 282
Seventh Street.

Engineer—John C. Little and Co., 251
Kearny Street.

Structural Steel—McClintic-Marshall
Co., 2050 Bryant Street.

Sub-bids are being taken on all other
portions of the work.

Segregated Bids Being Taken.
APARTMENTS Cost 250,000
VALLEJO, Solano Co., Cal. Sonoma
and Capitol Sts.

Six-story and basement Class C con-
crete apartments (60x132 ft.; 72 2,
3 and 4-room apts.; tile roof).

Owner—Dr. Burton Jones, 237 Georgia
St., Vallejo.

Plans by A. J. Mazurette, 576 Fifth
St., Oakland.

Contract Awarded.
APARTMENTS Cost, \$15,710
SAN FRANCISCO. Divisadero St. 50
S Lombard St.

Three-story and basement frame and
stucco apartments (6 3-rm apts.).

Owner—P. Martinet, 3155 Divisadero
St., San Francisco.

Architect—G. A. Berger, 309 Valencia
St., San Francisco.

Contractor—J. B. Bordieu & Son, 2825
20th St., San Francisco.

Tar and gravel roof, steam heating
system.

Preparing Preliminary Plans.
APARTMENTS Cost, \$100,000
SAN MATEO, San Mateo Co., Calif.
Bayshore Highway near Cypress.

Three-story and basement reinforced
concrete rooming house, apts. and
stores (50x150-ft.; 14 rooms, 22
apts., 3 stores).

Owner—Withheld.

Architect—F. W. Dakin, 625 Market
St., San Francisco.

Proposed project is in a very pre-
liminary stage.

Construction Postponed Indefinitely
APARTMENTS Cost Approx. \$70,000
SAN FRANCISCO. Valjejo St. near
Octavia Street

Six-story and basement concrete
apartments.

Owner—A. Anderson.

Architect—Clausen & Amandes,
Hearst Bldg., San Francisco.

Plans Being Prepared.

APARTMENTS Cost, \$—
LOS ANGELES, Cal. Hobart Blvd.,
bet. Fifth and Sixth Sts.

Five-story and basement Class B
brick apartments (60x149 ft.)

Owner—Schechter & Isenberg.

Architect—Max Maltzman, Union Bk.
Bldg., Los Angeles

Plans Being Figured—Bids Close Nov.
19th.

ADDITION Cost, \$22,000
WATSONVILLE, Santa Cruz Co., Cal.

Three-story frame and stucco addi-
tion to apartments (4 apts.)

Owner—Stewart Thompson, 19 Madis-
on St., Watsonville.

Architect—Wolfe and Higgins, Realty
Bldg., San Jose.

Garage to care for 10 cars, steam
heating plant, etc.

Plans Being Prepared—Contract
Awarded.

APARTMENTS Cost, \$60,000
MT. VIEW, Santa Clara Co., Calif.

Church and Castro Sts. (75x150-
ft.)

Three-story and basement reinforced
concrete apts., stores and offices.

Owner—Peter Owler, Mt. View.

Plans by Mr. Lindholm.

Contractor—Carl Lindholm, Chiquita,
Mt. View.

Sub-Bids Being Taken.
APARTMENTS Cost, \$80,000
SAN FRANCISCO. Cervantes and
Brado Streets.

Three-story and basement frame and
stucco apartments (18 3 and 4-
room apts.)

SKILSAW Portable Electric Hand
Saws (4 models).

SKILSAW Portable Electric Sander

SKILSAW Radial Arm Attach-
ments.

SYNTRON Portable Electric Ham-
mers (4 models, motor-
less).

MALL Flexible Shaft Machines (50
models).

Electric Drills, Grinders, Buffers,
Routers, Lock Mortisiers.

PETER H. NELSON

Labor Saving Portable Electric
Tools.

1248 Mission St.
San Francisco

Underhill
7662

Owner and Builder—Ben. Liehman,
1555 Francisco St., San Francisco.
Plans by Irvine & Ebbets, Call Bldg.,
San Francisco.

Sub-Bids Being Taken.
APARTMENTS Cost, \$60,000
SAN FRANCISCO. Forty-fifth Ave.
and Geary Street.

Three-story and basement frame and
stucco apartments (15 3-rm. apts.)

Owner and Builder—M. P. Storheim,
475 Euclid Ave., San Francisco.

Plans by Irvine & Ebbets, Call Bldg.

Will have steam heating system, tile
roof and elevator.

BONDS

SAN DIEGO, Cal.—Election of San
Diego County defeated the \$1,000,000
county and city office building bond
issue on Nov. 4. Architects T. C.
Kistner & Co. and Quayle Bros. pre-
pared sketches for the structure.

PORTERVILLE, Tulare Co., Cal.—
Lions Club has started movement for
a new firehouse and city hall building
in connection with the civic center
project. Preliminary plans for the
structures are being prepared by a
Fresno architect and will be submit-
ted for approval shortly. A bond
issue will probably be floated to
finance the construction.

FRESNO, Fresno Co., Cal.—Second
election is contemplated by the county
supervisors to vote bonds of \$500,000
to finance erection of a Class A annex
to the county courthouse, the previous
election failing to carry by a slight
majority. Preliminary plans for the
proposed annex have been prepared
by Architect W. D. Coates, Jr., Rowell
Bldg., Fresno.

CHURCHES

Plans Approved.
CHURCH Cost, \$—
LOS ANGELES, Cal. No. 1625 Grif-
fith Park Blvd.

Four-story Class A reinforced con-
crete church (143x140x193 ft. (49
rooms).

Owner—Bethany Presbyterian Church,
Premises.

Architect—Harry C. Hartley, Subway
Terminal Bldg., Los Angeles.

LINDSAY, Tulare Co., Calif.—City
trustees contemplate bond election to
vote \$40,000 to finance erection of a
new city hall.

Bids To Be Taken In One Week.
CHURCH Cost, \$6500
WILLOWS, Glenn Co., Cal.

One-story frame and stucco church.

Owner—First Church Christ Scientist,
Willows.

Architect—Otto Deichmann, 110 Sutter
St., San Francisco.

EUREKA, Humboldt Co., Cal.—
Until November 24, 8:30 P. M., bids
will be received by I. G. Thomas,
chairman, Building Committee, First
Methodist Episcopal Church, 716 Third
St., Eureka, to erect a new edifice at
southeast corner of Del Norte and F
streets. Plans obtainable from chair-
man of the committee at the above
address on deposit of \$10, returnable.

Plans Being Figured—Bids Close Nov.

25, 2 P. M.
CHURCH Cost, \$100,000
SACRAMENTO, Sacramento Co., Cal.
 SW 39th and J Sts. (106x324-ft.).
 Two-story brick and concrete church.
 Owner—Roman Catholic Bishop (Rev.
 M. L. Lyons, pastor).

Architect—Harry Devine, California
 State Life Bldg., Sacramento.
 Following are contractors who will
 submit bids:

Azevedo & Sarmiento, 920 O Street,
 Sacramento.

Barrett & Hill, 918 Harrison St.,
 San Francisco.

Lindgren & Swinerton, Inc., 225
 Bush St., San Francisco.

H. W. Robertson, 2532 33rd Street,
 Sacramento.

McGillivray Construction Co., Pol-
 som Bldg. and 65th St., Sacramento.

Campbell Const. Co., 800 R Street,
 Sacramento.

Wm. C. Keating, Forum Bldg., Sacra-
 mento.

**FACTORIES AND WARE-
HOUSES****Contract Awarded.**

PLANT Cost, \$10,000
SOUTH FORK, Humboldt Co., Cal.
 Group of corrugated iron buildings for
 distributing plant.

Owner—Associated Oil Co., 79 New
 Montgomery St., San Francisco.

Plans by Eng. Dept. of Owner.

Contractor—Dyer Const. Co., Ray
 Bldg., Oakland.

Contract Awarded.

PLANT Cost, \$10,000
SUSANVILLE, Lassen Co., Cal.
 Group of corrugated iron buildings for
 distributing plant.

Owner—Associated Oil Co., 79 New
 Montgomery St., San Francisco.

Plans by Eng. Dept. of Owner.

Contractor—Dyer Const. Co., Ray
 Bldg., Oakland.

Contract Awarded.

PLANT Cost, \$10,000
FORT BRAGG, Mendocino Co., Cal.
 Group of corrugated iron buildings for
 distributing plant.

Owner—Associated Oil Co., 79 New
 Montgomery St., San Francisco.

Plans by Eng. Dept. of Owner.

Contractor—Dyer Const. Co., Ray
 Bldg., Oakland.

Contract Awarded.

ALTERATIONS Cost, \$5000
SAN FRANCISCO, 235 9th St.
 Alterations to printing shop.

Owner—Portman Bros., 235 9th St.
 Plans by Mr. Piasecki.

Contractor—J. Piasecki, 345 Haight
 Street.

Concrete Contract Awarded.

WAREHOUSE Cost, \$30,000
SAN FRANCISCO, NW Carroll and
 Newhall Streets.

One-story steel frame and concrete
 warehouse (south side crane and
 runway).

Owner—Trusson Steel Co., Call Bldg.
 Architect—Eng. Dept. of Owner.

Contractor—MacDonald and Kahn, Fi-
 nancial Center Bldg.

Concrete—Western Paving Co., 74 New
 Montgomery St.

As previously reported, plumbing
 awarded to Geo. Weinholz, 1450 How-
 ard Street.

Plans Being Figured.

FACTORY Cost, \$200,000
OAKLAND, Alameda Co., Cal. 102nd
 Avenue.

One-story class C concrete factory (to
 cover area of 12,000 sq. ft.).

Owner—Hammer Bray Co., 26th Ave.
 and E 12th St., Oakland.

Architect—Clay N. Purrell, American
 Bank Bldg., Oakland.

Consulting Engineer—W. W. Hanscom
 26th Ave. and E 12th St., Oakland.

MARICOPA, Kern Co., Cal.—State
 Highway Commission rejects bids to
 erect highway maintenance station
 buildings at Maricopa and the work
 will be done by forces of the commis-
 sion. Low bid was submitted by Pe-
 tersen & Elsie, Bakersfield, at \$5590.

Plans Being Prepared.

MFG. PLANT Cost Approx. \$300,000
SOUTH GATE, Los Angeles Co., Cal.
 (12 acre site.)

Quartz manufacturing plant (3 bldgs.)
 Owner—Philadelphia Quartz Co. (A.
 W. Elkinton, vice president), 6th
 and Grayson Sts., Berkeley.

Architect—Eng. Dept. of Owner (W.
 E. Lyons, engineer).

One of the buildings will be 70x80
 feet in area, another 40x80 feet in
 area, and the third 50x50 feet in area.
 They will be steel frame structures
 with corrugated iron or corrugated
 asbestos siding and roofing and steel
 sash. Actual construction of services
 will be started in two weeks and
 work on the buildings will be started
 next February. All work will be
 handled by the owner's construction
 forces.

Completing Plans.

DISTRIBUTING PLANT Cost, \$—
SAN FRANCISCO, 18th and Caroline
 Streets.

Distributing plant (concrete gravel
 bunkers, bins, etc.; 1st unit)

Owner—Kaiser Paving Co., 74 New
 Montgomery St.

Engineer—L. H. Nishkian, 525 Market
 Street.

Plans will be ready for bids Nov.
 11th.

Wood Roof Truss Contract Awarded.

OFFICES Cost, \$15,000
SAN FRANCISCO, W Potrero Ave.
 and N 15th Street.

One-story class C offices and ware-
 houses.

Owner and Builder—L. Johnson, 729
 Occidental Ave., San Mateo.

Plans by Eng. Dept. of Lessee.

Lessee—Diamond Electric Mfg. Co.,
 124 Polson St.

Wood Roof Trusses—Summerbell
 Truss Co., 354 Hobart St., Oak-
 land.

Plans Being Figured—Bids Close Nov.

17, 2 P. M.
RUCK SHED Cost, \$—
GARBERVILLE, Humboldt Co., Cal.

Maintenance station truck shed.

Owner—State of California.

Plans by State Department of Public
 Works, Division of Highways,
 State Office Bldg., Sacramento.

Bids are being received by F. W.
 Hazelwood, district engineer, State
 Highway Commission, 54b Wabash

Ave., Eureka. Plans obtainable from
 the district engineer on deposit of \$25
 returnable.

See call for bids under official pro-
 posal section in this issue.

Preparing Working Drawings.

HANGAR Cost, \$35,000
SACRAMENTO, Sacramento Co., Cal.

Freepoint Blvd. at Municipal Air-
 port.

Steel frame and wood hangar and air
 terminal station 80x100 ft.

Owner—City of Sacramento (to be
 leased to Boeing Air Transport
 Company).

Architect—Harry Devine, 1405 41st
 St., Sacramento.

Plans will be ready for bids in about
 three weeks

Structure will be of steel frame and
 wood construction covering an area
 of 80 by 100 ft., with an exterior cov-
 ering of corrugated iron.

Contracts Awarded.

WAREHOUSE Cost, \$—
SAN FRANCISCO, Fifteenth and Har-
 rison Streets.

First unit of 2-story reinforced con-
 crete central storage warehouse
 (flat slab construction).

Owner—City and County of San Fran-
 cisco.

Architect—Dodge Reidy, Pacific Bldg.,
 San Francisco.

General Work
 Mahony Bros., Flood Bldg., San
 Francisco, at \$73,450.

Electrical Work
 Aetna Electric Co., 1337 Webster St.,
 San Francisco, at \$3260.

Plumbing
 Scott Co., 243 Minna St., San Fran-
 cisco, at \$3637.

Sub-Contracts Awarded
WAREHOUSE Cost, \$15,000
STOCKTON, San Joaquin Co., Cal.

One-story box shoo warehouse, 100x
 112 ft. with basement 90x112 ft.

Owner—Stockton Box Factory, Stock-
 ton.

Private plans.
 Contractor—O. H. Chain, Bank of
 America, Stockton.

Excavation—Gannon & McCarty,
 Stockton.

Concrete—J. A. Silver, 255 E. Mon-
 terey St., Stockton.

Sheet Metal—Miller-Hays Co., Grant
 and Weber Sts., Stockton.

Elevator—Otis Elevator Co., 1 Beach
 St., San Francisco.

Grading Contract Awarded.
WAREHOUSE, ETC. Cost, \$60,000
SANTA ROSA, Sonoma Co., Cal.

Service group (warehouse, garage,
 shops, transformer house, meter
 house, pole yard, etc.)

Owner—Pacific Gas & Electric Co., 245
 Market St., San Francisco.

Architect—Eng. Dept. of Owner.

Grading—Connors & Hansen, Santa
 Rosa.

Plans are being prepared for the
 service group and bids will be called
 for at a later date.

Sub-Contracts Awarded.
INDUSTRIAL BLDG Cost, \$—
SAN FRANCISCO, SE Russ St. and
 Howard St.

Three-story reinforced concrete in-
 dustrial building.

Owner—Eng-Skell Co., 208 Mission St.,
 San Francisco.

Engineer—A. C. Griewank, 208 Mis-
 sion St., San Francisco.

Concrete and Forms—Mission Concrete
 Co., 270 Turk St., San Francisco.

Vault Doors—Herring, Hall & Marvin
 Safe Co., 214 California St., S. F.

As previously reported, electrical
 work awarded to B. J. Doherty, 1725
 Church St., S. F.; reinforcing steel to
 Concrete Engineering Co., 1280 Indiana
 St., S. F.

Plastering Contract Awarded.
ALTERATIONS Cost, \$5000
SAN FRANCISCO, 8 Pacific W San-
 some Street.

Alterations to warehouse

Owner—Tea Garden Products Co.
 Plans by Austin Co. of California.

Contractor—Austin Co. of California,
 720 Ray Bldg., Oakland.

Plastering—J. G. Griggs, 237 Arguello
 Blvd., San Francisco.

As previously reported, reinforcing
 steel awarded Gunn, Carle & Co., Ltd.,
 444 Market St., San Francisco.

ANTELOPE, Sacramento Co., Cal.

—Bayliss C. Clark, former city en-
 gineer of Sacramento, and Richard L.
 Hollingsworth, Secretary of the Ar-
 cade Sand Company at Lincoln, Calif.,
 have organized the California Lime &
 Products Company and will expend

approximately \$300,000 in the construction of a plant 5 miles west of Antelope for the manufacture of lime and dry ice. Options have been secured on mining claims near Towne Station, several miles east of Colfax, Placer County, where lime will be procured.

Sub-Contracts Awarded.
STORAGE BLDGS. Cost, \$12,000
OAKLAND, Alameda Co., Cal. Elmwood Ave. bet. 29th and Fruitvale Avenues.

Two 1-story concrete storage bldgs. Owner—Morris Draying Co., 101 Webster St., Oakland.

Architect—R. C. Schuppert, 4637 Park Blvd., Oakland.

Contractor—Dyer Construction Co., Ray Bldg., Oakland.

Roofing—H. C. Brown Roofing Co., 3267 San Pablo Ave., Oakland.

Miscellaneous iron—Moore Drydock Co., foot of Adeline St., Oakland.

Lumber—Sunset Lumber Co., 400 High St., Oakland.

Concrete—R. L. Montgomery.

Steel—Gunn, Carle & Co., Ltd., 354 Hobart St., Oakland.

Concrete Contract Awarded.

FACTORY Cost approx. \$14,000
SAUSALITO, Marin Co., Cal.

One-story reinforced concrete boat and motor factory.

Owner—Italian American Motors Co., Inc., 604 Montgomery Street, San Francisco.

Plans by McFarland & Moore, 126 Otis St., San Francisco.

Concrete—Paramount Concrete Co., care owner.

Building will be constructed by the owners by day's labor.

Preparing Working Drawings.

WAREHOUSE Cost, \$—
GLENDALE, Los Angeles Co., Cal.

Seven-story reinforced concrete storage warehouse.

Owner—Bekins Van & Storage Co.

Architect—F. Eugene Barton, Crocker Bldg., San Francisco.

Bids will be called for at a later date.

FLATS

Contract Awarded.

ALTERATIONS Cost, \$10,000
SAN FRANCISCO. SW San Miguel and Mt. Vernon.

Alterations and additions to flats.

Owner—C. C. Dale, 1105 Hearst Bldg.

Plans by Owner.

Contractor—Laughlin Const. Co., 421 Mills Bldg.

Sub-Bids Being Taken.

FLATS Cost each, \$20,000
SAN FRANCISCO. Twenty-fifth Ave.

between Cabrillo and Fulton Sts.

Four two-story and basement frame and stucco flats (8 rooms each).

Owner and Builder—Fred Anderson, 1320 22nd Ave., San Francisco

Plans by Irvine & Ebbets, Call Bldg., San Francisco.

Contract Awarded.

FLATS Cost, \$11,000
SAN FRANCISCO. S Vallejo St East

Mason St.

Two-story and basement frame and stucco flats (2 flats).

Owner—E. Franceschi, Rio Vista, Cal.

Architect—J. A. Porporato, 619 Washington Street

Contractor—R. Fiolotti, 949 Filbert St.

GARAGES AND SERVICE STATIONS

Sub-Contracts Awarded.

ALTERATIONS Cost, \$12,000
SAN FRANCISCO. SE Polk St. and

Pacific Avenue.

Alterations to garage (new walls, partitions, etc.)

Owner—Bothin Real Estate Co., 604 Mission Street.

Engineer—N. B. Green, Sharon Bldg.

Contractor—F. R. Siegrist, 604 Mission Street.

Lumber—San Francisco Lumber Co., foot of Mason Street.

Steel Sash—Michel and Pfeffer Iron Works, Harrison and 10th Sts.

Plumbing—George Zara, 1311 Harrison Street.

Electric Work—Decker Electric Co., 538 Bryant St.

As previously reported reinforcing steel awarded to W. C. Hauck & Co., 280 San Bruno Ave.

GOVERNMENT WORK AND SUPPLIES

PEARL HARBOR, T. H.—As previously reported, A. Nekomoto, Honolulu, T. H., submitted low bid to Bureau of Yards and Docks, Navy Department, Washington, D. C., under Specification No. 6005, for refrigerating plant at Pearl Harbor. Following is a complete list of bids received:

Item 1, entire work; 2, add for additional compressor unit; 3, ded. for omission of filling; 4, ded. for omission of lead flashing.

A. Nekomoto, Honolulu, H. T., item 1, \$14,573; 2, \$1500; 3, \$100; 4, \$75.

John Hansen, Honolulu, H. T., item 1, \$16,000; 2, \$1737; 3, \$80; 4, \$135.

Ralph E. Woolley, Honolulu, H. T., item 1, \$22,730; tel. add \$500; 2, \$2,000; 3, \$230; 4, \$50.

MONTEREY, Monterey Co., Cal.—Until November 20 bids will be received by Quartermaster, Presidio of Monterey, for the construction of two stables and the electrical work for four stables at the Presidio of Monterey. Deposit of \$5 required for plans obtainable from above.

MARYSVILLE, Yuba Co., Cal.—Until November 18, 3 P. M., under Circular Proposal No. 31-143, Specifications No. 2609, bids will be received by U. S. Engineer Office, California

Fruit Bldg., for raising and enlarging levee near Alicia Station of the Sacramento Northern Railway, along the Feather river, approximately 2 miles south and downstream from the town of Marysville. Specifications obtainable from above office.

SAN DIEGO, Cal.—Until 11 A. M., November 21, bids will be received by the Public Works Office, Eleventh Naval District, San Diego, for painting of quarters, steel oil tank and steel wharf at the Naval Operating Base (Fuel Depot), San Diego. Spec. No. 6097. Work will consist of painting exterior of two-story, frame building, painting at 2,100,000-gallon, steel oil tank, and painting structural steel work of the station wharf, including the approach thereto. Bidding data obtainable from Capt. DeWitt C. Webb, public works officer, San Diego, upon deposit of \$10.

SAN FRANCISCO.—Until Nov. 20, 10 A. M., under Schedule No. 928-31-121, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver: 200 gals. dark chrome green, ready mixed paint;

24,500 lbs. common wire nails;

6,000 lbs. plumber's spun oakum;

1,000 rubber water closet balls;

1,408 ft. canvas belting;

5,000 pair porcelain unglazed cleats, 12 to 14 wire size;

66 rolls wire cloth, No. 18 mesh, No. 33 gauge wire, in 100 lin. ft. rolls;

1500 malleable pipe fittings (teas beaded, or banded, size ¾-in.);

Miscellaneous hardware and electrical supplies;

1 automatic printing press.

Further information obtainable from above.

EL PASO, Texas.—Until Dec. 1, bids will be received by the Division of Supplies, Department of Commerce, Washington, D. C., for installation of lighting facilities on the El Paso-Big Springs section of the El Paso-Pe.

Worth airway. The work consists of installing about 20 36-in. electric revolving beacons, together with other necessary appurtenances and accessories between El Paso and Big Springs, Texas, a distance of about 300 miles. Nine of the revolving beacons will be installed at intermediate landing fields, together with boundary lighting systems. The beacons as a rule will be mounted on 51 ft. or other height galvanized steel skeleton towers; deposit of \$5 required for plans, etc. Specifications No. 22, 700.

SAN DIEGO, Cal.—Until 11 A. M., December 10, bids will be received by the Public Works Office, Eleventh Naval District, San Diego, for improving electrical system at the Naval Operating Base (Air Station), San Diego. Spec. No. 6122. Work will consist of furnishing and installing new concrete manholes; conduits; power, light, street lighting, telephone and fire-alarm cables; transformers, switchboards, etc.; and the modification in part of existing manholes, conduits and wiring for complete reconstruction of underground electrical system. Bidding data obtainable from Capt. DeWitt C. Webb, public works officer, San Diego, upon deposit of \$40.

Contract Awarded.

REPAIRS Cont. Price \$1120
SAN FRANCISCO. Fort McDowell.

Repairs to dock.

Owner—United States Government.

Architect—Construction Quartermaster, Fort Mason.

Contractor—Healy-Tibbitts Construction Co., 64 Pine St., San Francisco.

SAN FRANCISCO.—Until Nov. 28, 10 A. M., under Schedule No. 928-31-120, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish one combined steam and hand driven Steering engine, 5-in. x 5½-in., Hyde or equal. Further information obtainable from above.

SAN FRANCISCO.—Until Nov. 17, 10 A. M., under Schedule No. 928-31-119 bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver 25 cu. yds. filter sand (55% to be retained on a 40-mesh screen); packed in double sacks, suitable for export shipment. Further information obtainable from above.

Plans Being Figured—Bids Close Nov. 20th.

WAREHOUSE Cost, \$—
BREMERTON, Washington. Puget Sound Navy Yard.

One-story steel frame paint and oil warehouse, 120 by 340 ft.

Owner—U. S. Government.

Plans by Bureau of Yards and Docks, Navy Dept., Washington, D. C.

The structure will be of steel frame construction with brick pilasters. Hollow tile interior partitions will be used with steel sash and doors and insulated steel roof decks. Bids will be received by Lieut. Commander B. Moore, Public Works Officer, Puget Sound Navy Yard.

SACRAMENTO, Calif.—Until Nov. 17, 3 P. M., under Order No. 2618-172 bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, to furnish and deliver at Rio Vista, Solano County, lumber, as follows:

- Pine, Rough, Select Common**
2340 ft. 3-in. x 6-in. x 26-ft.;
3240 3-1/2-in. x 6-in. x 36-ft.;
240 ft. 3-in. x 3-in. x 16-ft.
- Pine, Select Common, \$45**
2,000 ft. 4-in. x 6-in. x 20-ft.;
1303 ft. 8-in. x 10-in. x 10-ft.;
- Pine, No. 2 Clear and Better, \$45**
125 ft. 2-in. x 12-in. x 16-ft. (finished size);
72 ft. 1/2-in. x 12-in. x 12-ft. doz.;
72 ft. Spruce No. 1 clear, \$45, finished size, 3/4-in. x 2-in. x 12-ft.;
- 36 ft. Sugar Pine, No. 1 clear, \$45, finished size 3/4-in. x 12-in. x 12-ft.;
- 24 ft. Oak, No. 1 clear, \$45, finished size 2-in. x 12-in. x 12-ft.

SAN FRANCISCO—City Purchasing Agent Leonard S. Leavy, 273 City Hall rejects bids submitted Oct. 14, under Proposal No. 637, to furnish 200 mattresses for the Laguna Honda Home.

SAN FRANCISCO—Foxon Pottery, Agnew and Lafayette Road, Santa Clara, at \$2,138.65 awarded contract by Leonard S. Leavy, city purchasing agent, to furnish and deliver under Proposal No. 619, vitrified porcelain hotel crockery for Laguna Honda Home, San Francisco Hospital and the City Prison, as follows:

- Laguna Honda Home: Plain white crockery, 100 dozen mussel bowls 30s at \$1.50 per dozen; 100 dozen coffee cups, hotel, with handles, 1/2-pint, \$1.20 per dozen; 100 dozen saucers, \$0.75 per dozen.
- Laguna Honda Home: Two green line decorations, 25 dozen fruits, 5 1/4-in., \$0.90 per dozen; 25 dozen plates, 6 1/2-in., \$1.10 per dozen; 25 dozen butter chips, 3 1/2-in., \$0.45 per dozen; 25 dozen saucers, \$0.90 per dozen; 25 dozen coffee cups, \$1.50 per dozen; 25 dozen mussel bowls, 6-in., \$1.70 per doz.
- San Francisco Hospital: Two green line decorations, 50 doz. dinner plates, 9-in. diameter, \$2.00 per dozen; 200 dozen small plates, 6 1/2-in. diameter, \$1.10 per dozen; 12 dozen pickle dishes, shell, 7 1/4-in. length, \$3.00 per doz.; 200 dozen sauce dishes, 5 1/4-in. diameter, \$0.90 per dozen; 50 dozen salad bowls, 6-in. diameter, \$1.70 per doz.; 100 dozen soup bowls, 5 1/4-in. diameter, \$1.75 per dozen; 300 dozen tea cups, 3 1/4-in. high, \$1.50 per dozen; 5 dozen pitchers, 3-quart, \$15.00 per dozen; 100 dozen soup coupes, 7 1/4-in. diameter, \$1.75 per dozen; 5 dozen mustard pots with covers, 2 1/4-in. high \$2.00 per dozen; 100 dozen saucers, rolled edge 6 1/4-in., \$0.90 per dozen.
- City Prison: Heavy, 2 dozen plates, \$2.00 per dozen; 3 dozen cups, \$1.50 per dozen; 3 dozen saucers, \$0.90 per dozen; 2 dozen vegetable dishes, 6-in., \$1.45 per dozen; 2 dozen soup bowls, \$1.70 per dozen; 2 dozen individual salad dishes, \$1.70 per dozen; 2 dozen platters, 10-in., \$4.00 per dozen; 2 doz. plates, 10-in., \$2.50 per dozen.

SAN DIEGO, Cal.—Bids will be asked shortly by Bureau of Yards and Docks, Navy Department, Washington, D. C., under Specification 6276 for metal aircraft structures shop at the naval operating base (air station), San Diego, Cal. The work includes concrete, brick and hollow tile work, structural steel work, metal doors, metal and wire mesh, partitions, steel windows, dumbwaiters, roofing and sheet metal work, wood block flooring, mastic flooring, plastering, gas and air piping and heating, plumbing and electrical work. Deposit of \$25 required for plans, obtainable from bureau.

HONOLULU, T. H.—Until Dec. 16, under Circular No. 19, bids will be received by U. S. Engineer Office, Honolulu, for dredging approximately 1,255,000 cu. yds. of material in the reserved channel, Honolulu Harbor. Specifications obtainable from above office on deposit of \$5.

Contract Awarded.
GARAGES Cont. price, \$2,000
PAULO ALTO, Santa Clara Co., Calif.
Veterans' Hospital grounds.
Construct six single car garages.
Owner—U. S. Government.
Architect—Supervising Superintendent of Construction, U. S. Veterans' Hospital, Palo Alto.
Contractor—A. Holyoke, Hayward.
This work will consist of excavating placing concrete floors, laying up concrete block walls (concrete blocks will be furnished f.o.b. reservation by the U. S. Veterans' Bureau) built-up roofing for five of the garages, installing concrete tile roof on one garage (concrete tile will be furnished f.o.b. reservation by the U. S. Veterans' Bureau), carpentry, millwork, hardware, painting and finished grading.

WASHINGTON, D. C.—Bids are being received by Bureau of Supplies & Accounts, Navy Department, Washington, D. C., to furnish and deliver miscellaneous supplies and equipment as noted in the following schedules, further information being available from the Navy Department Officer, 100 Harrison St., San Francisco.

- Bids Open November 25**
Mare Island, 1 motor-driven engine lathe and 4 spare carbon brushes, sch. 4469.
Mare Island, 1 typesetting machine, sch. 4465.
Mare Island, 1 motor truck, sch. 4462.
Mare Island, 1 16-in. motor-driven engine lathe, sch. 4453.
San Diego, 49 drill chucks; Mare Island, 18 doz, sch. 4483.
Western yards, shackles, anchor; thimbles, wire rope, sch. 4484.
Western yards, vises, sch. 4486.
Western yards, gasoline torches, sch. 4487.
Western yards, rules and tapes, sch. 4481.
Western yard, screwdrivers, sch. 4480.

Bids Open December 2
Western yards, searchlights and spare parts, sch. 4475. 7

QUARRY HEIGHTS, C. Z.—See "Reservoirs and Dams" this issue. Bids wanted for excavation for three 1,500,000-gallon concrete water reservoirs for reservoir construction and water main extensions.

AMERICAN LAKE, WASH.—McKenzie Tile Co., 106 S. 10th St., Tacoma, Wash., at \$5980 submitted lowest bid to Supervising Superintendent of Construction, U. S. Veterans' Hospital, Palo Alto, Cal., to install tile floors, base and wainscoting in buildings Nos. 2, 3, 4, 5, 6, 7, 16 and 17 at the U. S. Veterans' Hospital at American Lake. This work consist of preparing floors to receive tile and installing non-skid vitreous tile floors and base for bath, showers and toilet rooms in the above buildings, including the wainscoting in rooms 39 and 40 in building No. 2, and doing all cutting, patching, etc.
Following is a complete list of the bids received:
McKenzie Tile Co., Tacoma.....\$5,980
Field Art Tile Co., Portland, Ore. 6,757
Art Tile & Mantel Co., San Francisco.....6,760
Heard Art Tile Co., Tacoma.....6,890
Turnure & Allen, Inc., Seattle.....6,935

Chester Rae, Tacoma 8,952
Bids referred to Washington for award.

SEATTLE, Wash.—Until December 3, under Specification No. 6297, bids will be received by the Bureau of Yards and Docks, Navy Department, Washington, D. C., for boiler plant building at the naval air station, Seattle, Wash. The building will have concrete foundations and floors, brick walls, steel framing, steel sash, built-up roofing, and electrical and plumbing systems. Deposit of \$10 required for plans, obtainable from bureau.

HAWTHORNE, Nev.—Bids will be asked shortly by Bureau of Yards and Docks, Navy Department, Washington, D. C., under Specification No. 6125 for buildings and dugouts, including concrete, steel and iron work; railroad tracks, conveyors and cable-way systems; cranes and hoists; boiler plant equipment, and heating, plumbing, ventilating, electric light and power, telephone and alarm systems, at the naval ammunition depot, Hawthorne, Nev. Deposit of \$40 required for plans, obtainable from bureau.

Plans Being Figured—Bids Close Nov. 17, U. A. M.

ADDITION Cost, \$—
MARCH FIELD, Riverside Co., Cal.
Two-story and basement reinforced concrete and hollow concrete wall addition to hospital (80x35 ft.)
Owner—U. S. Government.
Plans by Constructing Quartermaster, Col. W. C. Gardenshire, March Field.

CARLSBAD, N. M.—Until Nov. 25, bids will be received by U. S. Department of Interior, field headquarters, National Park, 400 Underwood Bldg., San Francisco, Calif., for the construction of an elevator shaft at Carlsbad Caverns National Park, Carlsbad, N. M. Vertical shaft 75 ft. deep, 14-ft. 3-in. x 6-ft. 10-in. neat dimensions, lining gunite and concrete where necessary, steel track supports approx. 20 tons, excavation approx. 3,000 cu. yds. solid rock. Elevators, machinery and guides will be separate contract. Steel and cement furnished by Government.

MONTEREY, Monterey Co., Cal.—Until November 25 bids will be received by Quartermaster, Presidio of Monterey, for extension of the water system and the construction of the drainage system at the Presidio of Monterey. Plans obtainable from Quartermaster on deposit of \$5.

HALLS AND SOCIETY BUILDINGS

Plans To Be Prepared.
LODGE HALL Cost, \$—
PETALUMA, Sonoma Co., Cal. Location to be selected.
Fireproof lodge hall.
Owner—Fraternl Order of Eagles, Petaluma Aerie No. 333, Petaluma Architect To Be Selected.
A building committee will be appointed at the next meeting of the lodge to select a site and secure details as to cost of such a structure.

Plans Being Completed
CLUBHOUSE Cost, \$—
SALADA BEACH, San Mateo Co., Cal. Sharp's Park.
One-story frame and stucco clubhouse.
Owner—City and County of San Francisco (Park Commission).
Architect—Willis Polk Co., 277 Pine St., San Francisco.
Bids will be taken in about three weeks.

Additional Contracts Awarded.

CLUB HOUSE Cost, \$60,000
HELVEDERIE, Marin Co., Cal.
 One-story frame and stucco club house
 Owner—San Francisco Yacht Club.
 Architect—H. H. Gutterson, 526 Powell
 St., San Francisco.

Pile Driving—Koetitz & Koetitz, 1424
 Fountain, Alameda.

Miscellaneous Iron—Kortick Mfg. Co.,
 335 1st St., San Francisco.

Galvanized Nails—Baker, Hamilton &
 Pacific Co., 700 7th St., San Francisco.

Excavation—J. Neall, San Bruno.

As previously reported, wharf contract awarded to Clinton Stephenson Const. Co., Monadnock Bldg., S. F., at \$10,000.

SANTA CRUZ, Santa Cruz Co., Cal.

County votes direct tax of a mill in Santa Cruz, each to cost \$75,000, and one-half, to finance the erection of American Legion Memorial Buildings, one at Watsonville and another

SANTA BARBARA COUNTY

Santa Barbara county supervisors have purchased sites in Carpinteria, Santa Maria and Solvang for American Legion memorial buildings. The American Legion posts of the three districts will finance and erect the buildings. Property in other sections of the county will also be purchased by the county for Legion use.

HOSPITALS

MADERA, Madera Co., Cal.—County defeats proposal to issue bonds of \$100,000 to finance erection of a new county hospital. The vote was 2376 in favor and 1444 against the issue, lacking 170 votes of the necessary two-thirds to carry.

Plans Being Prepared.

HOSPITAL Cost, \$50,000
YUBA CITY, Sutter Co., Cal. NE
 Plumas and Alturas Sts.
 Brick hospital 24 to 30-bed capacity.
 Owner—A. A. King, Sacramento.
 Architect—Homer A. Pratt, 4643 T
 St., Sacramento

The hospital, upon completion, will be managed by O. D. Slater of the Yuba City Hospital and Sanatorium.

OROVILLE, Butte Co., Cal.—Geo Tolley, Gridley, at \$1926 awarded contract by county supervisors to erect surgical ward addition at the county infirmary. Will be of wood construction, 16 by 60 feet.

MARTINEZ, Contra Costa Co., Cal.

Ben Hall, 1244 Ward St., Martinez, at \$1550 awarded contract by county supervisors to construct addition to laundry at county hospital.

Prospective Bidders.

SERVICE BLDG. Cost, \$100,000
SAN JOSE, Santa Clara Co., Cal.
 Two-story reinforced concrete service building.

Architect—Linder & Curtis, 35 W San Carlos St., San Jose.

Following is a partial list of the contractors who will submit bids:

R. O. Summers, 17 N 1st St., San Jose.

Thermotite Const. Co., 580 Stockton Ave., San Jose.

W. J. Ochs, American Trust Company Bldg., San Jose.

D. J. Byron, 1305 Hanchet, San Jose.

J. D. Carlsen, 1331 Sierra, San Jose.

Carl N. Swensen, 355 Stockton Ave., San Jose.

Frank Edmans, 143 N 8th St., San Jose.

E. Nommensen, 28 N First St., San Jose.

B. J. Smith, 1376 Mariposa, San Jose.

Bids are to be opened Dec. 1, 1930 at 11 A. M.

Contracts Awarded.

WARD, ETC. Cost, \$—
AGNEWS, Santa Clara Co., Cal.

Two-story reinforced concrete ward, kitchen and steam plant building (tile partitions, wood roof construction and tile roof; approx. 70,000 sq. ft. floor area).

Owner—State of California.

Architect—Division of Architecture, State Dept. of Public Works, Geo. B. McDougall, State Architect, Public Works Bldg., Sacramento.

General Work

J. F. Shepherd, First National Bank Bldg., Stockton, \$207,961.

Plumbing, Heating and Ventilating
 Hately & Hately, 1710 10th St., Sacramento, \$41880.

Electrical Work

Roy M. Butcher, 1020 Sherwood St., San Jose, at \$7629.

Alternate for adding two-story wing accepted.

Plans To Be Prepared.

HOME \$200,000 available
LOS ANGELES, Cal.

Home for Aged.
 Eastern Star (Walter Bradley, Patron).

Architect—Not Selected.

Previously reported to be constructed in Oakland.

Plans To Be Prepared.

ADDITION Cost, \$—
SAN JOSE, Santa Clara Co., Calif.

County Hospital.
 Two-story frame and stucco addition to building.

Owner—County of Santa Clara.
 Architect—Linder & Curtis, 35 W San Carlos St., San Jose.

SAN FRANCISCO

Incandescent Supply Co., Mission Street, at \$746, supply for completion 20 days, submitted low bid to City Purchasing Agent to furnish and install lighting fixtures in Laguna Honda Home. Complete list of bids follows:

Incandescent Supply Co., \$476; 20 days.

Cocfield Mfg. Co., \$520 (Rodian glass units); \$550 (Astralite glass units).

Phoenix-Day Co., \$624; 10 days.

Strom and Smith, \$632; 15 days.

Brass & Bronze Lgt. Co., \$660; 30 days.

North End Lighting Fixture Co., \$759; 15 days.

Roberts Mfg. Co., \$685; 15 days.

SANTA BARBARA, Cal.—Johnson & Hansen, 64 N. Fir St., Ventura, were awarded a contract at \$11,665 by the Santa Barbara County Super-

visors for addition to sanitarium at Santa Barbara County Hospital.

LOS ANGELES, Cal.—Until 2 P. M. Dec. 1, bids will be received by the Los Angeles County Supervisors for all lockers for Acute Unit of Los Angeles General Hospital in accordance with plans and specifications on file at the office of Miss Mame E. Beatty, Clerk of the Board, 303 Hall of Records. Copies may be obtained at the office of the County Architect, Karl Muck, 10th Floor, Hall of Records. Edwin Berkstrom, Myron Hunt, Pierpont Davis, Sumner P. Hunt, and Wm. Richards, architects.

LOS ANGELES, Cal.—Until 2 P. M. Dec. 1, bids will be received by Los Angeles County Supervisors for all plastering for Units 2, 3, 4 and 5, of Acute Units, Los Angeles General Hospital. Plans and specifications may be seen at the office of Miss Mame E. Beatty, 303 Hall of Records. Copies may be obtained at the office of Karl Muck, county architect, 10th Floor, Hall of Records. Edwin Berkstrom, Myron Hunt, Pierpont Davis, Sumner P. Hunt, William Richards, architects.

HOTELS**Completing Plans.**

HOTEL, ETC. Cost, \$150,000
HOLTVILLE, Imperial Co., Calif.

Five-story class B steel frame hotel, theatre and stores (110x150-ft; theatre to seat 1000).

Owner—Holtville Income Properties, Inc.

Architect—Perrine & Renfro, Lincoln Bldg., Los Angeles.

Completing Plans.

HOTEL Cost, \$—
SANTA MONICA, Los Angeles Co., Cal. Ocean Avenue.

Eight-story and basement Class A reinforced concrete hotel and apartments (60x160 feet).

Owner—Windemere Hotels Corp., Ltd

Architect—M. Eugene Durfee, Bay Cities Guaranty Bldg Santa Monica

Sub-Figures Being Taken.

APARTMENTS Cost, \$35,000
SAN FRANCISCO, 660 Bush St.

Alter apartments for hotel.

Owner—Progressive Trading Co., Matson Building.

Engineer—J. C. Little & Co., 251 Kearny St.

Contractor—Jos. Greenbach, Hearst Building.

ORNAMENTAL WIRE AND IRON WORK**IRON WIRE****Fence and Gates****TENNIS COURT ENCLOSURES****WIRE SCREENS AND GUARDS****WEST COAST WIRE & IRON WORKS****SAN FRANCISCO, CALIFORNIA****86-863 Howard Street * * * 'Phone SUtter 1136****Continuous Operation Since 1887**

Concrete & Rough Carpentry Bids Wanted.
HOTEL. Cost, \$10,000
REDWOOD CITY, San Mateo Co., Cal.
 Gaines Street.
 Two-story class "C" concrete hotel, (30 rooms).
 Owner—Sol Morris, 804 Brewster St., Redwood City.
 Plans by Carl Schuetz, 1125 The Highway, Redwood City.
 Will have composition and tile roof, oil burning system.

Plans Being Prepared.
HOTEL-THEATRE. Cost, \$250,000
KELSO, Wash.
 Seven-story and basement class A hotel-theatre (80 hotel rooms; theatre seating 1,000).
 Owner—Corporation being organized to finance.
 Architect—C. Frank Mahon, New Orpheum Theatre Bldg., Seattle.

Contract Awarded.
HOTEL. Cost, \$—
PALM SPRINGS, Riverside Co., Cal.
 Group of frame hotel buildings (8 cottages, stables, garage and hotel).
 Owner—Smoke Tree Forest Co.
 Architect—Garnett Van Pelt Jr., 51 S. Euclid Ave., Pasadena.
 Contractor—Peter Hall, 388 S. Raymond Ave., Pasadena.

POWER PLANTS

VERNON, Los Angeles Co., Cal.
 Howard S. McCurdy, city engineer, is making preliminary studies of the proposed municipal power plant which is to be built in Vernon under the recent \$3,900,000 bond issue. The proposed plant will be equipped with five Diesel type engines, having a total power rating of 45,000-hp. Present plans provide for generating equipment to provide a total capacity of 30,000 to 35,000 K. V. A.

PHOENIX, Ariz.—The Arizona Edison Co. has announced that plans for extending the company's transmission lines to Hidden Valley are under way. Plans involve construction which will extend power to 170,000 acres of land lying south and east of Phoenix. The construction program includes:

1. Construction of approx. 2½ miles of 110,000 volt transmission lines into the Blackwater sub-station of the Salt River Valley Water Users' Assn.
2. Construction of 110,000 to 44,000 volt transformer substation at Blackwater.
3. Construction of approx. 13 miles of 44,000 volt transmission lines in electrical district No. 2 into Toltec sub-station in electrical district No. 4.
4. Construction of 44,000 to 11,000 transformer sub-station at Toltec in electrical district No. 4, completed.
5. Construction of approx. 25 miles of 44,000 volt transmission lines in electrical district No. 3, completed.
6. Construction of 44,000 to 11,000 volt transformer sub-station in electrical district No. 3, completed.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

Plans Being Figured—Bids Close Nov. 24, 2 P. M.
LIBRARY. Cost, \$40,000
FAIRFIELD, Solano Co., Cal.
 Two-story concrete public library.
 Owner—County of Solano.
 Architect—W. E. Coffman, Forum Bldg., Sacramento.

- Segregated bids are wanted for:
- (1) rough and finished general;
 - (2) plastering and lathing;
 - (3) roofing work and dampproofing;
 - (4) glass and glazing;
 - (5) painting;
 - (6) tile and marble work;
 - (7) sheet metal work;

- (8) plumbing work;
 - (9) heating work;
 - (10) electrical work.
- Certified check 10%, payable to County Clerk required with bid. Plans obtainable from the architect on deposit of \$25, returnable.

Preparing Sketches.
COURT HOUSE. Cost, \$—
SAN LUIS OBISPO, San Luis Obispo Co., Cal.
 New Court House.
 Owner—County of San Luis Obispo.
 Architect—Charles L. Wilson, 1309 S Union Ave., Los Angeles.

SACRAMENTO, Cal.—City Manager James S. Dean has ordered preparation of plans to remodel store building at southeast Sixth Ave. and Stockton Blvd., for firehouse and living quarters for members of the department.

Preparing Preliminary Plans.
CITY HALL, ETC. Cost, \$400,000
BEVERLY HILLS, Los Angeles Co., Cal.

One and two-story reinforced concrete City Hall and fire station with clay tile roof.

Owner—City of Beverly Hills.
 Architect—Korner Gage, 465 N. Camden Drive, Beverly Hills.
 Plans are also being prepared for reinforced concrete fire station to cost \$50,000.

VENTURA, Cal.—Ventura county supervisors have postponed action for another 30 days on awarding contract for installing jail cells in the new courthouse addition under construction at Ventura. Bids of the Southern Prison Company and Fress & Sons are held under advisement.

Sub-Contracts Awarded.
ADDITIONS. Cost, \$10,000
HILLSBOROUGH, San Mateo Co., Cal.
 Two-story frame and stucco additions to fire house.

Owner—Town of Hillsborough.
 Architect—John White, 163 Sutter St., San Francisco.
 Contractor—H. T. Holsher, 325 Elm St., San Mateo.

Lumber—Wisnom Lumber Co., Fifth and Clumont, San Mateo.

Mill Work—Pacific Mfg. Co., 303 University Ave., Palo Alto.

Electric Work—Mausser Electric Co., 260 Lorton Ave., Burlingame.

Finished Hardware—Levy Bros., 200 2nd St., San Mateo.

Glass—Capps Glass Co., 210 East Lane Burlingame.

Sheet Metal—Imperial Sheet Metal, 416 2nd St., San Mateo.

Painting—J. E. Atkinson, 515 Marin Drive, Burlingame.

Sub-bids are wanted on brick work, plastering, cement work and roofing tile.

Contract Awarded.
REMODELING. Cost, \$—
SAN CARLOS, San Mateo Co., Cal.
 Remodel City Hall (frame and stucco construction).

Owner—City of San Carlos.
 Architect—E. L. Norberg, 580 Market St., San Francisco.
 Contractor—Moody J. Henry, 132 Bancroft St., Burlingame.

Following is a complete list of bids received:

Moody J. Henry, Burlingame \$11,253
 G. W. Williams Co., Ltd., Burlingame 11,790
 John Bjorkman, S. F. 11,887
 H. H. MacDonald, San Carlos 12,200
 J. W. Cobby & Son, S. F. 12,995
 Kappler Bros., San Francisco 13,280
 Louis N. Pollard, Redwood City 13,354
 Young & Horstmeier, S. F. 13,470

The work will include the installation of a fireproof vault for the city assessor and tax collector; an auditorium, 33 by 35 ft., seating 300 persons; heating and ventilating will also be included in the changes.

RESIDENCE

Contract Awarded.
RESIDENCE. Cost, \$7800
WATSONVILLE, Santa Clara Co., Cal.
 One-story and basement frame and stucco residence (seven rooms and two baths).
 Owner—C. J. Seekins, Watsonville.
 Architect—A. W. Story, Pajaro Valley Bank Bldg., Watsonville.
 Contractor—T. H. Rosewall, Roach Road, Watsonville.

Owner Taking Bids.
RESIDENCE. Cost, \$8500
PALO ALTO, Santa Clara Co., Cal.
 Hamilton Ave.
 Two-story frame and stucco residence with tile roof (6 rooms, 2 baths).
 Owner—E. H. Helm, 419 University Ave., Palo Alto.
 Plans by E. Reichel, 303 University Ave., Palo Alto.

Plans Being Figured.
RESIDENCE. Cost, \$16,000
SAN JOSE, Santa Clara Co., Cal.
 Two-story and basement frame and stucco residence (8 rooms, 3 baths).
 Owner—Dr. E. E. Porter, Security B'k Bldg., San Jose.
 Architect—Wolfe and Higgins, Realty Bldg., San Jose.

Contract Awarded.
RESIDENCE. Cost, \$12,650
HILLSBOROUGH OAKS, San Mateo Co., Cal.
 Summit Rd.
 Two-story and basement frame and stucco residence (8 rooms).
 Owner—Thomas Davis.
 Architect—Harold Stoner, 220 Third Ave., San Mateo.
 Contractor—A. Hedahl, 1224 Broadway, Burlingame.

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Plans Being Completed.
SAN FRANCISCO. San Aliso St. S
Darlen Way.

RESIDENCES Cost, \$10,000-\$11,000
Two two-story and basement frame
and stucco residences (7 rooms ea)
Owner and Builder—A. J. Herzog, 1945
Ocean Ave., San Francisco.
Plans by D. E. Jaekle, Call Bldg., San
Francisco.

Plans Being Completed.
RESIDENCES Cost, \$9,000 each
SAN FRANCISCO. San Aliso St. S
Darlen Way.

Two one-story and basement frame
and stucco residence (6 rooms and
social hall, 15x30 ft).
Owner and Builder—A. J. Herzog, 1945
Ocean Ave., San Francisco.
Plans by D. E. Jaekle, Call Bldg., San
Francisco.

Plans Being Figured.
RESIDENCE Cost, \$7,000
EVERGREEN, Santa Clara Co., Cal.
One and one-half-story frame and
stucco residence (5 rooms; Eng-
lish type).
Owner—Withheld.
Architect—Wolfe & Higgins, Realty
Bldg., San Jose.

Contract Awarded.
RESIDENCE Cost, \$12,000
SAN MATEO, San Mateo Co., Calif.
Baywood Park.
Two-story and basement frame and
stucco residence (7 rooms and 2
baths).
Owner—Withheld.
Architect—Grimes & Schoening, Bal-
ovich Bldg., San Mateo.
Contractor—M. L. Soward, 311 Catal-
pa, San Mateo.
Construction will be started in a
few days.

Owner Talking Bids.
RESIDENCE Cost approx. \$25,000
SAN FRANCISCO. Junipero Serra
Blvd. and Mercedes St.
Two-story and basement frame and
stucco residence (10 rooms and 3
baths; tile roof).
Owner—Howard E. Mohr, 116 9th St.
Architect—Martin Sheldon, Monad-
nock Building.

Plans Being Completed .
RESIDENCE Cost \$12,500
OAKLAND, Alameda Co., Cal. Lake-
shore Highlands.
Two-story and basement frame and
stucco residence (11 rooms and 3
baths).
Owner—A. R. Lapham, 947 Hillcroft
Circle, Oakland.
Plans by Irwin Johnson, 2215 Seventh
Ave., Oakland.
Bids will be taken in one week.

Plans Being Figured.
RESIDENCE Cost, \$10,000
SAN MATEO, San Mateo Co., Cal.
Lomita Park.
Two-story frame and stucco residence.
Owner—A. C. Brandt, Lomita Park.
Architect—J. Lloyd Conrich, 630 Lake
St., San Francisco.

Bids to Be Taken Nov. 10th.
RESIDENCE Cost, \$10,000
SAN FRANCISCO. Forest Hill.
Two-story and basement frame and
stucco residence (6 rooms, 2
baths).
Owner—John Gould.
Architect—Crim, Resing & McGuinness,
525 Market St.

Sub-Contracts Awarded.
RESIDENCE Cost, \$18,100
SAN JOSE, Santa Clara Co., Cal.
Two-story and basement frame and
stucco residence.
Owner—T. W. MacQuarrie, 309 S-
Eighth St., San Jose.

Architect—Binder & Curtis, 35 W-
San Carlos St., San Jose.
Contractor—Chas. Thomas, 127 Clay-
ton St., San Jose.

Brickwork—Frank Filben, Martin
Ave., San Jose.

Plumbing, Heating and Sheet Metal—
Herman Moltzen, E-San Fernando
St., San Jose.

Lumber and Millwork—S. H. Chase
Lumber Co., W-Santa Clara St.,
San Jose.

Painting—Francis Kuntz, 65 Lenzen
Ave., San Jose.

Plastering—S. L. Chiles & Son, Miller
St., San Jose.

Tile—Simpson Tile Co., W-Julian St.,
San Jose.

Electric Wiring—Coast Electric Co.,
S-First St., San Jose.

Ornamental Iron—Helliwig Iron W'ks,
Vine St., San Jose.

Preliminary Plans Being Prepared.
RESIDENCE Cost, \$15,000
OAKLAND, Alameda Co., Cal. Con-
tra Costa Road.
Two-story and basement frame and
stucco residence (eight rooms and
three baths).
Owner—Withheld.
Architect—Masten and Hurd, Shreve
Bldg., San Francisco.

Sub-Contracts Awarded.
RESIDENCE Cost, price, \$50,670
ATHERTON, San Mateo Co., Cal.
Two-story and basement brick veneer
residence.

Owner—Clarence Walter, Russ Bldg.,
San Francisco.

Architect—H. H. Gutterson, 526 Powell
St., San Francisco.

Contractor—G. P. W. Jensen, 320 Mar-
ket St., San Francisco.

Plumbing—Wilson and Lafferty, Palo
Alto.

Plastering—A. W. Cordes, 666 Mission
St., San Francisco.

Sheet Metal—Morrison & Co., 74 Du-
boce Ave., San Francisco.

Mill Work—Sunset Lumber Co., 400
High St., Oakland.

As previously reported, concrete
awarded to Louie Sartio, 2440 Green-
wich St., San Francisco; heating to
Vincent McMullen.

Preliminary Plans Being Prepared.
RESIDENCE Cost, \$12,000
SAN FRANCISCO. Forest Hill Dist.
Two-story and basement frame and
stucco residence (8 rooms and 2
baths).

Owner—Dr. R. Gilbert, Butler Bldg.,
San Francisco.

Architect—Henry Smith and A. R.
Williams, Humboldt Bank Bldg.,
San Francisco.

Sub-Bids Being Taken.
RESIDENCE Cost, \$4,000
BERKELEY, Alameda Co., Cal. Ban-
croft Way and California St.

One-story and basement frame and
stucco residence (5 rooms).

Owner and Builder—E. M. Hinch, 393
Bellevue St., Berkeley.

Plans by L. F. Hyde, 372 Hanover St.,
Oakland.

Plans Being Figured.
RESIDENCE Cost, \$10,000
SAN FRANCISCO. Forest Hill.

Two-story and basement frame and
stucco residence (6 rooms, and 2
baths).

Owner—John Gould.
Architect—Crim, Resing & McGuinness,
525 Market St., San Francisco.

Sub-Bids Being Taken.
RESIDENCE Cost, \$7,000
SAN FRANCISCO. Rock Ridge Ter-
race.

One-story and basement frame and
stucco residence (6 rooms).

Owner—Lang Realty Co., 39 Sutter
St., San Francisco.
Plans by Frank Nelson, 2 Edgehill
Way, San Francisco.

Sub-Bids Being Taken.
RESIDENCES Cost approx. \$15,000
SAN FRANCISCO. Sherwood Forest.
Three two-story and basement frame
and stucco residences (7 to 9
rooms).

Owner—Lang Realty Co., 39 Sutter St.
Plans by Frank Nelson, 2 Edgehill
Way.

Sub-Bids Being Taken.
RESIDENCE Cost, \$7,000
SAN FRANCISCO. Rock Ridge Ter-
race.
Two-story and basement frame and
stucco residence (7 rooms).
Owner—Lang Realty Co., 39 Sutter St.
Plans by Frank Nelson, 2 Edgehill
Way.

Sub-Bids Being Taken.
RESIDENCE Cost, \$5,000
SAN FRANCISCO. Joost Ave. near
Detroit Street.
One-story and basement frame and
stucco residence (5 rooms).
Owner and Builder—Castle Bldg., Co.,
830 Market St., San Francisco.
Plans by D. E. Jaekle, Call Bldg., San
Francisco.

Sub-Bids Being Taken.
RESIDENCE Cost, \$5,000
SAN FRANCISCO. Mangels Ave.
near Genesee St.
One-story and basement frame and
stucco residence (5 rooms).
Owner and Builder—Castle Bldg., Co.,
830 Market St., San Francisco.
Plans by D. E. Jaekle, Call Bldg., San
Francisco.

Plans Being Figured.
RESIDENCE Cost Approx., \$20,000
SANTA CRUZ, Santa Cruz Co., Cal.
Two-story and basement frame and
stucco residence.
Owner—Dr. Percy Phillips, 286 Wal-
nut St., Santa Cruz.
Architect—W. H. Weeks, 111 Sutter
St., San Francisco.

SCHOOLS

Grading Contract Awarded—Plans To
Be Prepared.

BUILDING Cost, \$—
BERKELEY, Alameda Co., Cal. Mil-
via St. from Berryman and Eu-
nicie.

New building.
Owner—Roman Catholic Archbishop,
1100 Franklin St., San Francisco.

Architect—Arnold Constable, 580
Market St., San Francisco.

Grading—Robert A. Farish, 125 De
Montford St., San Francisco.

Approximately 5,000 cu. yds. grad-
ing is involved.

Bids Close Dec. 3, 2:30 P. M.
ELECTRICAL WORK Cost, \$2,000
SAN FRANCISCO. Onondago, Otsego
and Cayuga Sts.

Electrical work for third unit of
(Southside) Balboa High School.

Owner—City and County of San Fran-
cisco.

Architect—Bakewell and Weihe, 251
Kearny St.

Plans are obtainable from the Bu-
reau of Architecture, 2nd floor, City
Hall.

Plans To Be Prepared.
ADDITION Cost, \$125,000
SAN FRANCISCO. Mission and Lo-
well Streets.

Eight- to 12- classroom addition to
Longfellow Elementary School.

Owner—City and County of San Fran-
cisco.

Architect Not Selected.

Contract Awarded.
ADDITION Cost, \$3454
HOLLISTER, San Benito Co., Cal.
 Frame and stucco addition to shop
 room of Agricultural Unit.
Owner—San Benito County High
 School District, J. P. Davis, clerk.
Plans by Mr. Griffen, Hollister.
Contractor—Chas. Younger, Hollister.

Following is a complete list of the
 bids received, all bidders of Hollister:
Excavation-Concrete Work.

J. C. Graf	\$ 93
Chas. Younger	111
Lyman Young	134
Carpentry-Painting	
Chas. Younger	\$2537
Lyman Young	2632
J. C. Graf	2637
Plastering	
J. C. Graf	\$330
Lyman Young	331
Chas. Younger	331
Sheet Metal-Plumbing	
Lyman Young	\$463
J. C. Graf	470
Chas. Younger	475

(3457) 1st report Oct. 14, 1930. 15

SAN FRANCISCO—Until November
 24, 3 p. m., under Proposal No. 659,
 bids will be received by Leonard S.
 Leavy, city purchasing agent, 270 City
 Hall, to furnish and deliver manu-
 factured furniture for School Depart-
 ment. Specifications obtainable from
 above.

SAN FRANCISCO—Until November
 24, 3 p. m., under Proposal No. 658,
 bids will be received by Leonard S.
 Leavy, city purchasing agent, 270 City
 Hall, to furnish and deliver stock
 furniture for School Department.
 Specifications obtainable from above.

Bids Opened.
HEATING SYSTEM Cost, \$—
ROSEVILLE, Placer Co., Cal.
 Heating System.
Owner—Roseville Union High School
 District, E. C. Bedell, clerk.
Engineer—Albert A. Coddington, 222
 Kearny St., San Francisco.

Following is a complete list of bids:
 (1) system, partly complete in one
 building; (2) auxiliary boiler; (3) boiler
 only.

D. P. Mulligan, Roseville, (1) \$8167;
 (2) \$5985; (3) \$2034.
 Rudolph Flach, El Cerrito, (1) \$8,-
 130; (2) \$6010; (3) \$2212.
 Scott Plumbing & Electric Co., Sacra-
 mento, (1) \$8219; (2) \$6263; (3) \$2,-
 529.

Carpenter & Mendenhall, Sacramen-
 to, (1) \$8397; (2) \$6547; (3) \$2525.
 J. A. Nelson, San Francisco, (1) \$9,-
 750; (2) \$6688; (3) \$3440.
 P. M. Booth, Marysville, (1) \$10,-
 544; (2) \$8644; (3) \$2744.

Bids held under advisement.

SEBASTOPOL, Sonoma Co., Cal.—
 Carl Shatto, Sebastopol, at \$826
 awarded contract by Sebastopol Union
 Grammar School District for re-
 roofing the grammar school.

PORTERVILLE, Tulare Co., Cal.—
 Architect Rollin S. Tuttle, Box C, Los
 Gatos, and Robert H. Orr, Los Angeles
 architect, have submitted prelimi-
 nary plans to the Finance and Build-
 ing Committee of the Porterville
 Methodist Church for a new educa-
 tional unit in connection with the
 church plant in addition to remodel-
 ing the church proper. The educa-
 tional unit is to contain 18 classrooms
 for junior and senior departments
 with facilities for about 750 pupils.
 Construction will be of brick, rein-
 forced concrete or frame, depending
 upon the cost. Clark Standiford, 212
 E. Putnam Ave., Porterville, is chair-
 man of the Building and Finance
 Committee which will make a selec-
 tion of plans shortly.

Contract Awarded.
ADDITIONS Cost, \$—
TAFT, Kern Co., Cal.
 Two-story brick and concrete addi-
 tion for Roosevelt School (steel
 roof, plastered exterior).
Owner—Conley School District, H. R.
 Kanode, clerk.
Architect—Charles H. Biggar, 554-555
 Haberfelde Bldg., Bakersfield.

General Contract—Henry Elsasser,
 Bakersfield, \$82,500.

Electric Work—Shaler Electric Co.,
 Taft, \$3,975.

Plumbing—Standard Plumbing Co.,
 Taft, \$7,363.

Heating—Gundlach Plbg. Co., Bakers-
 field, \$7,100.

Following is a complete list of bids:

General Contract	
Henry Elsasser, Bakersfield	\$82,500
Peterson & Elsasser	\$4,400
Currie & Duglar, Bakersfield	\$4,700
P. W. Paynter, Bakersfield	\$7,700
G. A. Graham, Bakersfield	\$8,890
Opperman & Hallett	\$9,250
R. McGray, Taft	\$7,000
Plumbing	
Standard Plbg. Co., Taft	\$7,363
Gundlach Plbg. Co., Bakersfield	7,600
H. O. Ward, Taft	7,693
ELECTRIC WORK	
Shaler Electric Co., Taft	\$3,975
United Electric Co., Taft	4,800
Garrett Electric Co., Taft	5,180
Heating	
Gundlach Plbg. Co., Bakersfield	\$7,100
W. M. Fisher, Bakersfield	7,328

Sub-Contracts Awarded.
BUILDINGS Cont. price, \$465,616
BERKELEY, Alameda Co., Cal. Uni-
 versity of California Campus.
 Group of three class B steel frame
 and concrete buildings (College of
 Engineering).

Owner—University of California.
Architect—G. W. Kelham, 315 Mont-
 gomery St., San Francisco.
Engineer—H. J. Brunner, Sharon
 Bldg., San Francisco.

Will be one-three- and four-stories
 in height.
Contractor—Barrett & Hilp, 918 Har-
 rison St., San Francisco.

Grading—Ariss Knapp Co., 961 41st
 St., Oakland.
Structural Steel—Pacific Coast Engi-
 neering Co., foot of 14th St., Oak-
 land.

As previously reported, mechanical
 work awarded to The Turner Co., 329
 Tehama St., San Francisco, \$56,355;
 electrical work to NePage-McKenny
 Co., 128 10th St., Oakland, \$19,704.

Plans Being Completed.
MEMORIAL BLDG. Cost, \$250,000
BERKELEY, Alameda County, Calif.
 Campus of University of California.
 Two-story class A concrete Eshleman
 Memorial Bldg. (Student publish-
 ing building).
Owner—Regents of the University of
 California, Berkeley.

Architect—G. W. Kelham, 315 Mont-
 gomery St., San Francisco.
 Bids will be advertised for between
 the 20th and 24th of November.

Contract Awarded.
ADDITION Cont. price, \$8494
MOSS LANDING, Monterey Co., Cal.
 One-story frame addition to present
 school (two classrooms).
Owner—Moss Landing School Dist.

Architect—W. H. Weeks, 111 Sutter
 St., San Francisco; 1736 Franklin
 St., Oakland, and Bank of Italy
 Bldg., San Jose.

Contractor—Minton Co., Mt. View.

Planned.
DORMITORY BLDGS. Cost, \$550,000
CLAREMONT, Los Angeles Co., Cal.
 Pomona College Campus.
 Two dormitory buildings (accommo-
 date 180).
Owner—Pomona College, Claremont.
Architect—Webber & Spaulding, 627 S.
 Carondelet St., Los Angeles.

PITTSBURG, Contra Costa Co., Cal.
 —Until November 24, 8 p. m., bids
 will be received by Armand Stow,
 clerk, Pittsburg School District, to
 furnish and lay linoleum in the cor-
 ridors and library of the junior high
 school. Specifications obtainable from
 clerk. Bidders to submit samples.

PITTSBURG, Contra Costa Co., Cal.
 —Until November 24, 8 p. m., bids
 will be received by Armand Stow,
 clerk, Pittsburg School District, to
 furnish and install Venetian blinds
 in Pittsburg Junior High School. Bid-
 ders to take their own measurements
 and submit samples with bid.

Plans Being Figured—Bids Close Nov.
 20, 2 P. M.

SCHOOL Cost, \$15,000
JAMESTOWN, Tuolumne Co., Cal.
 One-story class C concrete grammar
 school (3 classrooms).
Architect—Davis-Pearce Co., Grant &
 Weber Sts., Stockton.

Following is a partial list of the
 prospective bidders:

L. Uebels, Ripon.
 M. F. Varozza, Modesto.
 M. O. Ward, Modesto.
 Niel & Wirtner, Turlock.
 Ray Whit, Coloma.
 George Roek, Stockton.
 John Hackman, Stockton.
 T. E. Williamson, Stockton.

Bids Opened—Held Under Advisement
CONVENT Cost, Approx. \$70,000
SAN FRANCISCO, Ashbury Street
 near Waller Street.

Four-story concrete convent and 2-
 story addition to present school.
Owner—Roman Catholic Archbishop of
 San Francisco, 1100 Franklin St.,
 San Francisco.

Architect—H. A. Minton, 525 Market
 St., San Francisco.
 Rev. John Butler is the pastor.

Plans Being Completed.
GYMNASIUM, ETC. Cost, \$—
MONTEREY, Monterey Co., Cal.
 One-story reinforced concrete aca-
 demic building and one-story rein-
 forced concrete gymnasium with
 tile roof.

Owner—Monterey Union High School
 District.
Architect—Swartz & Ryland, Spazler
 Bldg., Monterey.

Bids will be taken in about 2 weeks.

BANKS, STORES & OFFICES

Plans To Be Prepared.
ADDITION Cost, \$1,000,000
SEATTLE, Wash. Northeast 2nd Ave.
 and Madison St.
 Thirteen-story class A addition to
 present 9-story stores and offices
 (Leary Bldg.).
Owner—Insurance Bldg. Corp. (W. E.
 Johnson, Seattle, president).
Architect—A. H. Albertson, Northern
 Life Tower Bldg., Seattle.

Low Bidder.
STORES Cost, \$—
SALINAS, Monterey Co., Cal. Mon-
 terel Street.
 One-story concrete stores (stucco ex-
 terior, tile roof, \$5890-ft.).
Owner—S. M. Baker.
Architect—Swartz & Ryland, Spazler
 Bldg., Monterey; 373 Main St., Sa-
 lina and Brisk Bldg., Fresno.
Low Bidder—Fred McCarty, 506 Fre-
 mont St., Monterey.

Plans Being Prepared.
STORE Cost, \$30,000
PITTSBURG, Contra Costa Co., Cal.
 E 4th St. bet. Black Diamond and
 Fourth St.
 One-story tile store.
Owner and Builder—K. E. Parker Co.,
 135 South Park, San Francisco.
 Plans by Owner.

Contract Awarded.
STORIES Cost, \$6000
SOUTH SAN FRANCISCO, San Mateo Co., Calif. Fourth Lane and Linden Avenue.

One-story reinforced concrete store (two stores).
Owner—Andrew Hynding, 219 Linden St., South San Francisco.
Architect Not Given.
Contractor—Mutual Const. Co. (J. L. Snyder), 571 Geary St., San Francisco.

Contract Awarded.
BANK Cost, \$15,000
SAN FRANCISCO. Divisadero and Hayes Streets.
One-story and basement reinforced concrete bank.
Owner—Bank of Italy.
Architect—H. A. Minton Bank of Italy Bldg., Eddy and Powell Sts.
Contractor—Jack & Irvine, 74 New Montgomery St.

Contract Awarded.
STORES Cost, \$—
SALINAS, Monterey Co., Cal. Monterey Street.
One-story concrete stores (stucco exterior, tile roof, \$5x90 ft.)
Owner—S. M. Baker.
Architect—Swartz & Ryland, Spazier Bldg., Monterey; 273 Main St., Salinas, and Brlx Bldg., Fresno.
Contractor—Fred McCrary, 506 Fremont St., Monterey.

Plans Being Prepared.
LUNCH ROOMS Cost, \$—
OAKLAND Alameda Co., Cal.
Two 1-story concrete and wood lunch rooms.
Owner—Kem Bemis, care architects.
Architect—Hardman & Russ, Berkeley Bank Bldg., Berkeley.
A group of similar buildings will be constructed at a later date.

Plans To Be Prepared.
ADDITION Cost, \$—
SAN FRANCISCO. 468 Turk St.
One-story concrete addition to building.
Owner—Bell Bros., Mills Bldg.
Architect—Not Selected.
Lessee—Hoover S w e e p e r Co., 626 Golden Gate Ave.

Preliminary Plans Being Approved.
OFFICES Cost, \$2,800,000
SAN FRANCISCO. Civic Center.
Four-story and basement class A Federal office building (combination concrete and steel construction).
Owner—U. S. Government.
Architect—Arthur Brown, Jr., 251 Kearny St.

Sub-Contracts Awarded.
BUILDING Cost, \$20,692
BURLINGAME, San Mateo Co., Cal. Block 16.
One-story concrete building.
Owner—Pacific Greyhound Lines, 9 Main St., San Francisco.
Plans by Owner.
Contractor—Chas. J. Dawe, 981 Peralta Ave., Berkeley.
Wiring—Mausser Electric Co., 260 Lorton Ave., Burlingame.
Plumbing—Jos. Grimes, 245 California St., Burlingame.
Roofing—Ajax Roofing Co., 1257 Paloma St., Burlingame.
Reinforcing Steel—W. S. Wetenhall, 17th and Wisconsin Sts., S. F.

Plans Being Completed.
BANK Cost, \$60,000
LOS GATOS, Santa Clara Co., Cal. Main St. and Santa Cruz Avenue (62x100 feet).
One-story reinforced concrete bank with tile roof (ornamental stone and acoustical plaster).
Owner—Bank of Italy.
Architect—H. A. Minton, Bank of Italy Bldg., San Francisco.

There will be two stores, 20x72 ft. in connection with building.
Bids will be taken in about three weeks

THEATRES

Sketches Prepared.
THEATRE Cost, \$—
PASADENA, Los Angeles Co., Calif. Colorado Blvd. and Euclid Ave.
Class A theatre (to seat 2500).
Owner—Henry Warner.
Architect—B. Marcus Friteca, Warner Bros. Downtown Theatre Bldg., Los Angeles.

Bids To Be Taken In One Week.
ALTERATIONS Cost, \$50,000
OAKLAND, Alameda Co., Cal. No. 1445 Twenty-third Avenue.
Alterations to Class C steel frame and concrete theatre (wood joists)
Owner—Golden State Theatre & Realty Co., 25 Taylor St., San Francisco.
Architect—Reid Bros., 105 Montgomery St., San Francisco.

Plans Being Prepared.
THEATRE Cost, \$750,000
SACRAMENTO, Sacramento Co., Cal. Intersection Tenth, L and K Sts.
Class A steel and concrete theatre.
Owner—Warner Bros., Inc., Los Angeles.
Architect—B. Marcus Friteca, Warner Bros. Downtown Theatre Bldg., Los Angeles.

Plans Being Completed.
ALTERATIONS Cost, \$60,000
RICHMOND, Contra Costa Co., Cal. Alterations to class C steel frame and brick theatre (change balcony, etc.)
Owner—Fox West Coast Theatres Inc. Architect—Clausen & A m a n d e s, Hearst Bldg., San Francisco.
Bids will be taken in one week for a general contract.

KELSO, Wash.—See "Hotels," this issue. Plans being prepared for seven story Class A hotel and theatre project; estimated cost, \$250,000.

Contract Awarded.
THEATRE Cost, \$200,000
MERCED, Merced Co., Cal. Seventh and J Sts. (150x150 ft.)
Two-story Class C steel frame and reinforced concrete theatre, stores and office building (theatre to seat 1700).
Owner—Golden State Theatres, Inc., 988 Market St., San Francisco.
Architect—Reid Bros., 105 Montgomery St., San Francisco.
Contractor—Salih Bros., Golden Gate Theatre Bldg., San Francisco.

Contract Awarded.
THEATRE Cost, \$150,000
REDDING, Shasta Co., Cal. Two-story reinforced concrete theatre.
Owner—T. & D. Jr. Enterprises (M. Naify), 25 Taylor St., San Francisco.
Plans by Eng. Dept. of Owner.
Contractor—Fred M. Salih, care owners.

WHARVES AND DOCKS

OAKLAND, Alameda Co., Calif.—Warden & Forsythe, Oakland, at \$2,030 submitted the only bid to City Port Commission for laying track materials to serve 348 ft. extension at Outer Harbor Terminal. Bid held under advisement.

Plans Being Figured—Bids Close Dec. 4, 2 P. M.
PIER Cost, \$—
SAN FRANCISCO. Pier No. 23.

Reinforced concrete pier (150x800-ft.; green piles, concrete jacket and reinforced concrete deck).
Owner—State Board of Harbor Commissioners, Ferry Bldg.
Engineer—Frank White, Ferry Bldg.

MISCELLANEOUS CONSTRUCTION

OAKLAND, Alameda Co., Calif.—Until Nov. 17, 4:30 P. M., bids will be received by City Port Commission 424 Oakland Bank Building, Oakland, for furnishing 5,000 cu. yds. crushed rock (quarry waste) at the Municipal Airport.

SAN FRANCISCO.—Robert A. Farish, 125 De Montford St., at \$8,300 submitted lowest bid to Playground Commission for grading playground site at junction of Ocean Avenue and Aptos Avenue, adjoining Aptos school now in course of construction. Following is a complete list of the bids received:
Robert A. Farish.....\$ 8,300
Sibley Grading & Teaming Co..... 8,900
Granfield, Farrar & Carlin..... 9,800
W. K. McMillan..... 9,900
Chas. L. Harney..... 10,500
MacDonald & Kahn..... 10,820
J. P. Holland..... 12,000
Guerlin Brothers..... 12,474
L. Devenenzi & Son..... 13,240
Piombo Brothers..... 13,500
Meyer Rosenberg..... 13,845
Bids held under advisement.

Contract Awarded.
KITCHEN Cost, \$20,000
SAN FRANCISCO. Clara and Ritch Streets.
One-story reinforced concrete kitchen building with steel trusses.
Owner—H. G. Clifford, 913 Harrison.
Architect—E. A. Eames, 333 Sacramento Street.
Contractor—Barrett & Hilp, 918 Harrison Street.

SACRAMENTO, Cal.—M. J. Reeves. Sacramento, at \$10 cu. yd., awarded contract by city council to construct ditch at municipal airport and at 5.9c cu. yd. for grading runways.

Bids To Be Taken In One Week.
HOSPITAL Cost, \$10,000
BERESFORD, San Mateo Co., Cal. One- and two-story frame and stucco animal hospital.
Owner—Dr. Harold H. Groth, El Camino, Beresford.
Architect—Harold Stoner, 220 Third Ave., San Mateo.

Plumbing Bids Being Taken.
GRANDSTAND, ETC. Cost, \$1,250,000
SAN FRANCISCO. Fifteenth St. and Potrero Avenue.
Baseball Park, class A steel and concrete grandstand, 1000 ft. long.
Owner—San Francisco Baseball Club, 15th and Valencia Sts.
Engineer—H. J. Brunner, Sharon Building.
Contractor—Lindgren-Swinerton, Inc., 225 Bush St.
Steel sash bids are in and will be awarded shortly.
As previously reported, reinforcing steel awarded to Pacific Coast Steel Corp., 215 Market St.; lumber to Christensen Lbr. Co., 5th and Hooper Sts.; lawn sprinkler system to The Turner Co., 329 Tehama St.; excavation to Sibley Grading & Teaming Co., 165 Landers St.

SAN FRANCISCO.—C Douglas, 840 Bosworth St., at \$65 awarded contract by Board of Public Works to improve north half of Green St. from point 62 ft. 6 in. from east line of Polk St. to point 87 ft. 6 in. east of Polk St., involving removal of sand from roadway and sidewalk and construction of bulkhead.

REDWOOD CITY, San Mateo Co., Cal.—Until November 17, 3 P. M., bids will be received by B. E. Myers, city clerk, to construct reinforced concrete retaining wall along the bank of a branch of Redwood Creek and joining with concrete bridge in Lathrop street between Elm and Maple Sts. Certified check 10% payable to city required with bid. Plans obtainable from C. L. Dimmitt, city engineer.

Sub-Contracts Awarded.

UNDERTAKING ESTABLISHMENT

SUISUN, Solano Co., Cal. Main St. Two-story frame and stucco undertaking establishment and (1) apt. (4107-41).

Owner—W. C. Hansen, Suisun.

Plans by Mr. Younger.

Contractor—F. A. Younger, Suisun.

Concrete Work—George Riding, 2943 75th Ave., Oakland.

Lumber—Diamond Match Co., Chico Mill Work—Lanum Brothers Planing Mill, 6th and Magnolia Sts., Oakland.

Glass—East Bay Glass Co., 621 6th St., Oakland.

Plumbing, Heating and Sheet Metal—E. W. Culver, 590 Pala, Sacramento.

Plastering—F. F. Mayes, Fairfield.

Painting—W. N. Rogers, 3510 Wisconsin St., Oakland.

Electric Wiring—N. C. Hopkins Co., 1437 23rd Ave., Oakland.

Roofing—Allyn L. Burr Co., 11th and R St., Sacramento.

Brick Work—F. F. Mayes, Fairfield.

Glass Tiles—Eigent Tiles Co., 3012 Harrison St., Oakland.

Screens—Hippolite Screen Co., 4246 Holden St., Oakland.

BUSINESS OPPORTUNITIES

Names and addresses of persons or firms concerned in these opportunities will be furnished on request to Business Opportunity Department, Larsen Advance Construction Reports, 647 Mission St., San Francisco, or phone GA 8741.

620617—Furniture, Glassware. San Juan, P. R. Party inquires for names of local manufacturers of medium-priced and cheap furniture, also inexpensive table glassware for hotels.

20619—Colored Tiles and Pottery. San Francisco. Party desires list of local importers of colored tiles and pottery, from Spain.

20629—Japanese Pottery. Tokio, Japan. Exporters of Japanese pottery are desirous of contacting local importers.

20637—Advertising. San Francisco. Representative of Salvador newspapers wishes to make connections with San Francisco firms desiring to enlarge their markets or create new ones there through advertising.

20639—Sales Connection. San Francisco. Sales manager with personal experience in all Pacific Coast states of the United States and Australia, as well as New Zealand and Hawaiian Islands, solicits sales connection.

20641—O-d Rubber Tires. Canton, India. Firm requests list of exporters of old rubber tires to China.

M. B. Peterson, 3349 Sierra Way, Sacramento, Calif., desires to connect with local firm who wishes to be represented in Northern California territory.

J. F. Corfield, Deep Water P. O., British Columbia, Canada, is desirous of contacting with some firm interested in manufacturing and selling an indoor Golf Game, the patents for which have been applied for both in Canada and the United States.

Peter Lambertus, President, Acme Works, Inc., Indianapolis, Ind., wishes to secure a sales representative in this territory for a new dishwasher.

G. Nettle, 5 East 53rd St., New York, N. Y., has facilities for handling sale in Greater New York and contiguous territory a limited number of domestic accounts having meritorious articles. Accounts will be handled in a commission basis.

A. Aptheker, 930 Hart St., Brooklyn, N. Y. (B. Aptheker and Sons, Inc.) has a position open for a salesman with good qualifications.

Edwin S. Hills (Eger Golf Club Co.) 2153 Detroit Ave., Toledo, Ohio, desires to secure firm or individual to handle line of golf clubs for the state of California on a commission basis.

C. H. Foster, 1335 Broadway, Denver, Colo., wishes to represent San Francisco firm to introduce new and introduced articles and securities, in the Middle West territory.

Texas Cement Plant Has Phantom Railway

The Trinity Portland Cement Plant at Dallas, Texas, has a railway on which cars transfer cement rock from the excavating pit to the crusher apparently without the direction of human beings. Nobody rides on the cars which move from place to place, starting and stopping here and there, as if possessed of an intelligence of their own.

This unique railway operates by means of special electric equipment manufactured by the General Electric Company, and is known as the "riderless larry car" system, a method of remote control devised by that company. Each car is equipped with two 50-horsepower, squirrel-cage motors with electric solenoid brakes and no other control devices of any kind. Power is collected from the track system. Two operators, located where they can view the loading and unloading of the cars and their movements, govern the principal car movements.

Cement rock, from which the cement is made, is excavated at this plant over a mile from the crusher. An inexpensive haulage system was needed and General Electric engineers were called upon to solve the problem. The "riderless larry car" system, previously applied by General

Electric to another installation of a different type, was adapted for the purpose.

The track on which the cars run is divided into a number of sections insulated from each other. The motor-driven cars collect their energy from an extra rail system. Switches on control desks in front of the two operators control the delivery of energy to each section of track. By energizing all the sections, a car runs from one end of the track to the other. By energizing one section only, the car runs through that section to the next whereupon, the energy supply being cut off, the brakes automatically set and stop the car. Cars can be "inched" along, a short distance at a time, by applying energy to the section momentarily. Cars will not coast indefinitely on a dead track section because of the automatic action of the brakes. The direction of travel can be changed as simply as the current can be turned on or off—merely by throwing a switch.

Another interesting feature of the installation is the conservation of power made possible by the use of the squirrel-cage induction motors. An inherent characteristic of such motors is that they tend to maintain constant speed under all circumstances. On down grades gravity will not materially over-speed the cars but will be automatically converted into electricity, for the motors will then act as generators. The power thus generated will be fed back into the power system, helping to operate other cars on other sections of track.

The use of induction motors is new for such applications, direct-current motors usually being employed. The dump cars to which the electric drive is applied were built by the Atlas Car & Manufacturing Company.

H. H. Boomer, contractor, has filed suit in the Superior Court, San Francisco, asking \$586,059.90 from five surety companies that bonded the Robert C. Storrie & Co. contractors. He charges that he contracted to do the work with Storrie in the construction of the Buck's Creek power plant in Plumas county and that the extra work demanded by the company entitles him to the amount asked for.

Send for a Sample Copy of the New

DAILY PACIFIC BUILDER

The only daily construction newspaper affording complete coverage of the construction activities in Central and Northern California—featuring work contemplated, bids wanted, bids opened, contracts awarded, sub-bids wanted and sub-contracts let on all types of building construction; bridges, dams and harbor works, irrigation projects; machinery and equipment; water works and supplies; business opportunities; building permits; building contracts, mechanics' liens; acceptances, etc., etc.

Keep informed on construction developments in Central and Northern California, and the major projects in Southern California, the states of Oregon, Washington, Nevada and Arizona.

Engineering News Section

BRIDGES

BUTTE COUNTY, Cal.—Until Dec. 3, 2 P. M., bids will be received by State Highway Commission to construct steel bridge with concrete deck over the tracks of the Western Pacific Railroad and across north fork of Feather river at Pulga, composed of one 349.95 ft. steel arch span, one 82-14 ft. plate girder span, one 79.06 ft. plate girder span, two 62.51 ft. plate girder spans and one 44.02 ft. plate girder span.

PLACERVILLE, El Dorado Co., Cal.—Hector Williamson, Placerville, at \$2800 awarded contract by county supervisors to construct reinforced concrete girder bridge over Travers Creek, near Spanish Flat. J. W. Halterman, Willows, only other bidder at \$2748. Henry Lahiff, county surveyor.

PLACERVILLE, El Dorado Co., Cal.—Hector Williamson, Placerville, at \$900 awarded contract by county supervisors to construct reinforced concrete culvert over Brandon Creek near Latrobe. J. W. Halterman, Willows, only other bidder at \$1777. Henry Lahiff, county surveyor.

BERKELEY, Alameda Co., Cal.—Until November 18, 10 A. M., bids will be received by Florence E. Turner, city clerk, to construct culvert extension west of Euclid Ave. at Codornices Creek. Certified check 10% payable to city required with bid. Plans obtainable from city engineer on deposit of \$10, returnable.

BUTTE COUNTY, Calif.—As previously reported, bids will be received Dec. 3, 2 P. M., by State Highway Commission to construct steel bridge with concrete deck over the tracks of the Western Pacific Railroad and across north fork of Feather River at Pulga, composed of one 349.95 ft. steel arch span, one 32.14 ft. plate girder span, one 79.06 ft. plate girder span, two 62.51 ft. plate girder spans and one 44.02 ft. plate girder span. Project involves: 590 cu. yds. class A Portland cem. conc.; 92,000 lbs. reinf. steel; 1,540,000 lbs. struc. steel including erection steel; 35,000 lbs. cast steel 59,000 lbs. struc. in railing; 34,000 lbs. cast iron in railing; 1000 lbs. bronze expansion plates; 1 lot misc. items of work.

MERCED, Merced Co., Cal.—G. B. Cameron & Son, Merced, at \$2393 awarded contract by Merced Irrigation District to construct 50-ft. concrete bridge over Main Canal in district about 1½ mile northeast of the Six-Mile House.

STOCKTON, San Joaquin Co., Cal.—Until November 24, 11 A. M., bids will be received by Eugene D. Graham, county clerk, to construct bridge near the site of a former structure on the Waverly Road over Duck Creek. Certified check 10% payable to Chairman of the Board of Supervisors required with bid. Plans obtainable from Julius Manthey, county surveyor.

SAN LUIS OBISPO COUNTY, Cal.—San Atlas Const. Co., Andrews Bldg. San Luis Obispo, submitted low bid to L. H. Gibson, district engineer, State Highway Commission, San Luis

Obispo, at \$9483.25 for constructing in San Luis Obispo County a timber bridge across San Carpelo Creek, about 11 miles north of San Simeon (V-SLO-56-A) to be repaired by constructing a timber truss span 75 ft. 10 in. long on concrete piers to replace some of the existing bents. The items are:

- (1) 350 cu. yds. struc. excav;
- (2) 110 cu. yds. class A conc. (struc.)
- (3) 85 cu. yds. class A conc. (placed by tremie);
- (4) 3800 lbs. reinf. steel;
- (5) 24,500 lbs. struc. metal;
- (6) 12 M. B. M. redwood timber (dense select all-heart struc.);
- (7) 25 cu. yds. conc. to be moved.

The bids were:
San Atlas Const. Co., (1) \$1.73; (2) \$19; (3) \$16; (4) 5.5c; (5) 12c; (6) \$180; (7) \$4.75; total \$9483.25.
Wm. Lane, (1) \$3.25; (2) \$19.70; (3) \$18; (4) 5.5c; (5) 9.35c; (6) \$253; (7) \$6.

COQUILLE, Ore.—Until Dec. 8, 10 A. M., bids will be received by W. A. Gilbert, Coos County Roadmaster, to construct bridge over the isthmus Slough on the Marshfield-Eastside County road near Marshfield. Alternate bids will be accepted as follows:

Alternate A—Will consist of 1435 lin. ft. of concrete viaduct, 113-ft. 4-in. steel deck truss and 165-ft. double leaf steel bascule involving:

- 5,400 cu. yds. excavation;
- 63,500 lin. ft. piling;
- 6,530 cu. yds. concrete;
- 800,000 lbs. metal reinforcement;
- 120,000 lbs. steel rail reinforcement;
- 542,000 lbs. structural steel;
- 150 sq. yds. asphalt plank;
- 63,000 lbs. machinery;
- 42 M.F.B.M. Port Oxford cedar lumber;
- Electrical equipment, concrete handrail, etc.

Alternate B—Will consist of 12,010 lin. ft. viaduct; 113-ft. 4-in. steel deck truss span; 165-ft. double leaf bascule and 225-ft. wood trestle involving:

- 5,700 cu. yds. excavation;
- 63,500 lin. ft. piling;
- 6,270 cu. yds. concrete;
- 120,000 lbs. steel rail reinforcement;
- 707,000 lbs. metal reinforcement;
- 452,000 lbs. structural steel;
- 150 sq. yds. asphalt plank;
- 63,000 lbs. machinery;
- 73 M.F.B.M. Port Oxford Cedar lumber;
- 225 lin. ft. trestle superstructure;
- Electrical equipment, concrete handrail, etc.

Alternate C—Will consist of 1,425 lin. ft. wood trestle; 113-ft. 4-in. steel deck truss 165-ft. double leaf steel bascule and 60-ft. concrete span, involving:

- 6,500 cu. yds. excavation;
- 60,500 lin. ft. piling;
- 4,626 cu. yds. concrete;
- 120,000 lbs. steel rail reinforcement;
- 182,000 lbs. metal reinforcement;
- 452,000 lbs. structural steel;
- 150 sq. yds. asphalt plank;
- 63,000 lbs. machinery;
- 210 M.F. B. M. Port Oxford Cedar lumber;
- 1,425 lin. ft. trestle superstructure;
- Electrical equipment, concrete handrail, etc.

Certified check or bidder's bond 5% required with bid. Plans on file in office of Associated General Contractors, 206 Sansome St., San Francisco, and Portland, Ore., and Spokane, Wash., and obtainable from County Roadmaster on deposit of \$5.

KERN COUNTY, Cal.—M. H. Slocombe, Los Angeles, at \$25,118 submitted low bid to State Highway Commission Nov. 12 to construct four timber bridges from 17 to 21 miles west of Wasco, one composed of twelve 19-ft. spans, one composed of four 19-ft. spans and two composed of two 19-ft. spans each, all on frame bents with concrete footings. Complete list of bids follow:

M. H. Slocombe, Los Angeles.....	\$25,118
G. A. Graham, Bakersfield.....	25,682
D. R. Dennis Constr. Co., San Diego	25,725
G. J. Ulrich Constr. Co., Modesto	26,714
Gist & Bell, Arcadia	29,735
J. F. Metzger & Son, L. A.	30,458
Fennel Constr., Inc., Sacto	31,872

Bids held under advisement.

MERCED, Merced Co., Cal.—T. A. Wayne, Atwater, at \$5,567 submitted low bid to county supervisors to construct six concrete bridges in Road District No. 3, over various canals.

MERCED, Merced Co., Cal.—E. K. Angle, Dos Palos, at \$8,200 submitted low bid to county supervisors to construct timber pile bridge on the Fremont Road in Road District No. 4. Taken under advisement.

BAKERSFIELD, Kern Co., Calif.—J. R. Thornton, county surveyor, preparing plans for a county bridge 140 ft. long, of timber construction.

SAN FRANCISCO.—California Toll Bridge Authority, headed by Governor C. C. Young, has approved preliminary data for the proposed San Francisco to Alameda County bay bridge and has directed the State Department of Public Works to file an application with the War Department seeking authority to construct the bridge.

DREDGING, HARBOR WORKS & EXCAVATIONS

SACRAMENTO, Cal.—M. J. Reeves, Sacramento, at \$10 cu. yd. awarded contract by city council to construct ditch at municipal airport and at 5.9c cu. yd. for grading runways.

HONOLULU, T. H.—Until Dec. 16, under Circular No. 19, bids will be received by U. S. Engineer Office, Honolulu, for dredging approximately 1,255,000 cu. yds. of material in the reserved channel, Honolulu Harbor. Specifications obtainable from above office on deposit of \$5.

MARYSVILLE, Yuba Co., Cal.—Until November 18, 3 P. M., under Circular Proposal No. 31-143, Specifications No. 2609, bids will be received by U. S. Engineer Office, California Fruit Bldg., for raising and enlarging levee near Alicia Station of the Sacramento Northern Railway, along the Feather river, approximately 2 miles south and downstream from the town of Marysville. Specifications obtainable from above office.

IRRIGATION PROJECTS

PARADISE, Butte Co., Cal.—J. E. Ely and Rufus J. Bean, 1211 Robinson St., Oroville, at \$2,353.94 awarded contract by Paradise Irrigation District

for the following improvements:

Furnishing:

- 50 ft. 30-in. 10-gauge riveted steel slip-joint pipe;
 - 40 bbls. Portland cement;
 - 20 cu. yds. sand, 40 cu. yds. gravel;
 - 20 ft. 4-inch standard screw-joint pipe;
 - 1 30-inch L. P. Heavy-Duty Gate, Calco model or similar, pedestal lift rod;
 - 5,000 ft. h.m. dimension lumber;
 - haul all materials from Magallana station to the job;
 - damming water from tunnel, installing 30-in. pipe welding 30-in. gate to pipe, filling tunnel and balance with loose rock, construct bulkhead, intake and screen support, etc.
 - building operating trestle and installing pedestal lift.
- F. H. Neilson, Orland, only other bidder at \$3305.

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CALIFORNIA.—Following applications for permits to appropriate water were filed during the month of October with the State Department of Public Works, Division of Water Resources, Sacramento, it is reported by Edward Hyatt, state engineer:

Application 6810, (Stanislaus Co.) Turlock Irrigation Dist., care R. V. Meikle, Chief Eng., Turlock, 800 c.f.s. from Tuloume River, tributary to San Joaquin River, for power purposes.

Application 6811, (Stanislaus Co.) Turlock Irrigation Dist., care R. V. Meikle, Chief Eng., Turlock, 800 c.f.s. from Tuloume River, tributary to San Joaquin River, for domestic purposes. Est. cost \$50,000.

App. 6812 (Tulare Co.) A. E. Stegeman, Posey, Calif., for .022 c.f.s. from an unnamed spring tributary to Bull Run Creek for recreational purposes. Est. cost \$200.

App. 6813 (Santa Cruz Co.) Theo. J. Hoover, Swanton, Calif., for 5 c.f.s. from Waddell Creek tributary to the Pacific Ocean for irrigation purposes. Est. cost \$2500.

App. 6814, (San Bernardino Co.) Metropolitan Water District of Southern California, 222 South Hill Street, Los Angeles, 15,000 and 717,000 a.f. from Colorado River tributary to the Pacific Ocean for power purposes. Est. cost \$20,000,000.

App. 6815 (Riverside Co.) Chas. A. Buck, P. O. Box 111, Banning, Calif., for 0.25 m.i. from an unnamed spring tributary to Whitewater River watershed for irrigation and domestic purposes. Est. cost \$175.

App. 6816 (Humboldt Co.) Geo. H. Bergin, Weaverville, Calif., for 150 c.f.s. from Cedar Creek and Horse Linto Creek tributaries to Trinity River for mining purposes. Est. cost \$150,000.

App. 6817 (El Dorado Co.) H. A. Linthicum and W. D. Meyers, 137 Carmel Ave., Roseville, for 400 g.p.d. from an unnamed stream tributary to South Fork of American River, for domestic purposes. Est. cost \$200.

App. 6818 (Plumas Co.) Victor Challen care Cooper Challen Realty Co., Inc., 7 West Santa Clara St., San Jose, for 1 c.f.s. from Clear Creek tributary to El Creek, thence North Fork Feather River, for mining and domestic purposes. Est. cost \$100.

App. 6819 (El Dorado Co.) H. L. Fowler, Georgetown, Calif., for 12 c.f.s. from Pilot Creek tributary to Rubicon River, thence Middle Fork American River for irrigation purposes.

App. 6820 (Siskiyou Co.) Mrs. Ella E. George, Cecilville, Calif., for 30 c.f.s. from East Fork of Six Mile Creek tributary to East Fork of South Fork of Salmon River, for mining purposes. Est. cost \$5000.

App. 6821 (Los Angeles Co.) Gus Wissendorf, Sacramento, Calif., for 14 c.f.s. from Mine Gulch tributary to

Prairie Fork, thence San Gabriel River, for mining and domestic purposes. App. 6822 (Modoc Co.) Bidwell Elec. Co., care C. H. Aldridge, owner, Ft. Bidwell, Calif., for 1 c.f.s. from Harpers Creek tributary to Mokelumne River for power purposes. Est. cost \$1000.

App. 6823 (Amador Co.) Frank Du Bois, 2551 1st Ave., Sacramento, for 0.04 c.f.s. from "Crystal Spring" (formerly Twin Spring) tributary to North Fork of Mokelumne River, for mining and domestic purposes. Est. cost \$1,000.

CALIFORNIA.—Following permits to appropriate water were granted by the State Department of Public Works, Division of Water Resources, Sacramento, during the month of October, it is reported by Edward Hyatt, state engineer:

Permit 3579, Application 6727 (El Dorado Co.) Issued to Ira W. Kibby, Sacramento, for .01 c.f.s. from an unnamed spring for domestic use.

Per. 3580, App. 6686 (Mono Co.) C. E. Brodie, Los Angeles, for .01 c.f.s. from Rock Creek for domestic use. Est. cost \$175.

Per. 3581, App. 6603 (Merced Co.) J. L. Pirpo and J. Caraglio, Cressey, for 4 c.f.s. from Merced River, for irrigation on 329.7 acres. Est. cost \$2,200.

Per. 3582, App. 6479 (Merced Co.) C. L. Schmidt, Gustine, for .31 c.f.s. from Dry Creek, for irrigation on 25 acres. Est. cost \$500.

Per. 3583, App. 6695 (San Bernardino Co.) R. S. Irwin, Lucerne Valley, for 5 c.f.s. from two unnamed springs for irrigation and domestic use on 40 acres. Est. cost \$3,000.

Per. 3584, App. 6629 (Riverside Co.) O. J. McLaughan, Idyllwild, for 0.02 c.f.s. from an unnamed stream for irrigation and domestic use on ten acres. Est. cost \$2,000.

Per. 3585, App. 6730 (El Dorado Co.) Mrs. Ida Raught, et al, Kyburz, for .002 c.f.s. from an unnamed spring for domestic purposes. Est. cost \$200.

Per. 3586, App. 6547 (Mono Co.) Gladys Koebig, Los Angeles, for 200 g.p.d. from small unnamed stream for domestic use. Est. cost \$90.

Per. 3587, App. 6123 (Amador, Calaveras Counties) East Bay Municipal Utility Dist., Oakland, for 375 c.f.s. and 50,000 a.f. from Mokelumne river for power use.

Per. 3588, App. 6672 (Colusa Co.) Colusa Development Co. of Colusa, for 9.87 c.f.s. from Sacramento River for irrigation on 789.7 acres. Est. cost, \$20,000.

Per. 3589, App. 6696 (Colusa Co.) J. W. Browning, Grimes, Calif., Oct. 21, 1930, for 5.95 c.f.s. from Sacramento river for use for irrigation on 476.2 acres. Est. cost \$6690.

Per. 3590, App. 6574 (Stanislaus Co.) J. M. de Souza, Modesto, for 0.41 c.f.s. from Tuloume River, for irrigation on 33 acres. Est. cost \$1500.

Per. 3591, App. 5876 (Nevada Co.) Spanish Mining Co., San Francisco, for 15 c.f.s. from Poorman's Creek for use for power. Est. cost, \$11,000.

Per. 3592, App. 5812 (Lassen Co.) G. L. Kramer, Bieber, Calif., for 6.75 c.f.s. from Widow Valley Creek for irrigation and stock watering on 540 acres. Est. cost, \$3000.

Per. 3593, App. 4807 (San Bernardino Co.) Water Conservation Association of Riverside, for 250,000 ac. ft. per annum storage from Santa Ana River for irrigation and domestic use on 52,640 acres. Est. cost \$10,000.

Per. 3594, App. 6760 (Colusa Co.) M. E. Hastings, Maxwell, 1 c.f.s. from Stone Corral Creek for Irrigation on 81 acres.

Per. 3595, App. 6724 (Inyo Co.) Burnham Chemical Co., Westend, Cal. for .007 c.f.s. from Furness and Barnes canyons for industrial and domestic purposes. Est. cost \$10,000.

Per. 3596, App. 6736 (San Bernardino Co.) R. M. Hart of Pine Knot, Cal. for 0.014 c.f.s. from an unnamed

spring for irrigation and domestic use and fox raising. Est. cost \$500.

Per. 3597, App. 6527 (Sutter Co.) J. T. Cummins Hatch Co. of Knights Landing, for 5.96 c.f.s. from Sacramento River for irrigation on 476.75 acres. Est. cost \$7,000.

Per. 3598, App. 6692 (Mono Co.) Henry Heyman, Long Beach, for 200 g.p.d. from Rock Creek for domestic use. Est. cost \$300.

Per. 3599, App. 6752 (Trinity Co.) C. R. Delaney, Forest Glen, Calif., for 2.5 c.f.s. from Little Shasta Creek for mining and domestic purposes. Est. cost \$100.

MODESTO, Stanislaus Co., Calif.—Pacific Const. Co., 2235 E 7th Street, Oakland, was awarded contract at \$3,000 by the Modesto Irrigation District for placing 200 cu. yds. of concrete in sidewalks, weir, etc., of the district's upper main canal. Contracts for concrete aggregate were let as follows: Porter Sand & Gravel Co., 1,500 cu. yds. at \$1.55; Chas. D. Warner, 1,500 cu. yds. at \$1.55.

STREET LIGHTING SYSTEMS

SAN FRANCISCO.—Until Nov. 24, 3 P. M., under Proposal No. 652, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish and deliver 600 metal and 300 concrete Boulevard Lighting Standards. Specifications obtainable from above.

MACHINERY AND EQUIPMENT

HANFORD, Kings Co., Cal.—D. C. Williams, city clerk, instructed to advertise for bids to furnish tractor and scraper for use of city street department.

SAN FRANCISCO.—Until Nov. 28, 10 A. M., under Schedule No. 328-31-120, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish one combined steam and hand driven Steering engine, 5-in. x 5 1/2-in., Hyde or equal. Further information obtainable from above.

REDWOOD CITY, San Mateo Co., Cal.—Rix Compressed Air & Drill Co., San Francisco, at \$1861.80 awarded contract by city council to furnish one portable compressor for use of the city street department.

PHOENIX, Ariz.—Until Nov. 28, new bids will be received by the state highway commission (W. W. Lane, State Engr.), Phoenix, for furnishing five four-wheel drive type trucks, five V-type snow ploughs, one large crawler type tractor, one medium size crawler type tractor and one rotary type snow plough for tractor. All bids received Oct. 30 were rejected. The items bids on were:

SCHEDULE NO. 1

- 5 trucks complete with bodies and snow ploughs, f. o. b. Ash Fork.
- Alternate No. 1—5 truck chasses, complete, f. o. b. Ash Fork.
- Alternate No. 2—5 hydraulic hoists and dump bodies, f. o. b. Ash Fork.
- Alternate No. 3—5 snow ploughs, complete, f. o. b. Ash Fork.

SCHEDULE NO. 2

- One crawler type tractor, complete, f. o. b. Ash Fork.

SCHEDULE NO. 3

- One crawler type tractor with snow plough, complete, f. o. b. Phoenix.
- Alternate No. 1—One crawler type tractor, complete, f. o. b. Phoenix.
- Alternate No. 2—One snow plough,

complete, f. o. b. Phoenix.

The bids follow:
Nell B. McGinnis, Phoenix—Coleman model D-40X—No. 7, \$6090 ea., alt. 1, \$5000; No. 3, Monarch No. 35, \$5702 each; alt. 1, \$2625 ea.; alt. 2, Snow King model 770, \$2077 ea.

Arizona Tractor and Equipment Co., Phoenix—No. 1, alt. No. 3, La Plant model K-78, \$23.40 ea.; No. 2, cat. "60," \$4768.30 ea.; No. 3, alt. 2, cat. "30," \$2772 ea., alt. 2, La Plant SV-30, \$1994 each.

Pratt-Gilbert Hardware Co.—No. 2, Bates "30," \$4975 ea.; No. 3, alt. 2, \$2750 ea., for Bates "35."

Four Wheel Drive Sales Co., Cliftonville, Wis.—No. 1 FWD Utility Six without snow ploughs, \$5639.15 ea.; alt. 1, \$5032; No. 2, alt. 3, Wausau model 200X, \$695 each.

Ronstadt Hardware & Machinery Co., Tucson—No. 2, alt. 3, Baker model 37, \$741 each.

L. D. Henman Motors, Phoenix—G. M. C. model T-90—No. 1, \$6816.95 ea.; alt. 1, \$5553.55 ea.; alt. 2, St. Paul GUB \$630 ea.; alt. 3, Good Roads model 29, \$768 each.

Mine and Smelter Equipment Co., Phoenix—No. 1, alt. 3, Rightway, \$523 and \$744; No. 3, alt. Rightway truck ploughs, \$2533 each.

Lindsay, Tulare Co., Cal.—City trustees contemplate bond election for approximately \$2500 to finance purchase of motor ambulance.

RAILROADS

MODESTO, Stanislaus Co., Cal.—Tidewater Southern Railroad plans to expend \$150,000 or more in the Stanislaus district including the construction of freight sheds, repairs to roadbeds, laying heavier rails and improvement of freight station facilities.

LODI, San Joaquin Co., Calif.—Chamber of Commerce has appointed a committee to confer with officials of the Southern Pacific Railroad with regard to erecting a new freight and passenger depot in Lodi.

SAN FRANCISCO—Following bids received by city purchasing agent to furnish and deliver rolled steel car wheels for Municipal Railway:

(1) 500 34-in. wheels; (2) 48 28-in. wheels.

American Steel Foundry, 525 Market St., (1) \$30; (2) \$27.

Pacific Coast Steel Co., (1) \$34.70; (2) \$27.70.

Columbia Steel Co., (1) \$35; (2) \$28.50.

Standard Steel Works Co., (1) \$38;

FIRE ALARM SYSTEMS

OAKLAND, Alameda Co., Cal.—Following bids received by City of Oakland to supply traffic signal timers, for the city of Oakland.

(1) furnish and deliver 20 signal timers; (2) to furnish and deliver 5 traffic signal secondary timers.

General Electric Co., Russ Bldg., San Francisco, (1) \$660; (2) \$990. Eagle Signal Service Corp., 939 Market St., San Francisco, (1) \$676; (2) \$800.

The Electrical Communication Co., 131 2nd St., San Francisco; the Crouse Hinds Co., Sheldon Bldg., San Francisco, and the Graybar Electric Co., 9th and Howard Sts., San Francisco, all submitted identical bids of (1) \$698; (2) \$840.

Bids held under advisement.

HANFORD, Kings Co., Calif.—City council plans purchase of new fire alarm whistle; estimated cost \$1,100. D. C. Williams, city clerk.

FIRE EQUIPMENT

PACIFIC GROVE, Monterey Co., Cal.—City votes bonds of \$15,000 to finance purchase of a motor fire truck

LINDSAY, Tulare Co., Cal.—City trustees contemplate calling an election to vote bonds of \$6000 to finance purchase of motor pumper for fire department.

RESERVOIRS AND DAMS

QUARRY HEIGHTS, C. Z.—Until November 29 bids will be received by Panama Canal Department, office of the Quartermaster, Quarry Heights, C. Z., for excavation for three 1,500,000-gal. concrete water reservoirs, the construction of reservoir No. 2 on Engineers Hill, Corozal, C. Z., and for the furnishing of all labor, material and equipment necessary to install a 16-in. cast iron water main from existing main at Corozal to proposed reservoir on Engineer Hill, including the 16 and 20-in. manifold at proposed reservoir to a point at Corundu river at station 96 plus 10, including all valves and fittings; deposit of \$25 required for plans, obtainable from above office.

PIPE LINES, WELLS, ETC.

TACOMA, Wash.—American Concrete Pipe Co., Tacoma, at \$50,712 submitted low bid to City Board of Contracts and Awards to furnish 11,459 lin. ft. 30-in. dia. concrete pipe and specials. Birchfield Boiler Co., Tacoma, low for electric welded pipe at \$46,628. Steel Tank and Pipe Co. second low for electric welded pipe at \$48,308, with an alternate bid of \$49,547. Taken under advisement.

SEWERS AND SEWAGE DISPOSAL PLANTS

PALO ALTO, Santa Clara Co., Cal.—Until November 17, 4 p. m., bids will be received by E. L. Beach, city clerk, to construct storm water sewers in Lytton Ave. between Waverly St. and Webster St. Certified check 10% required with bid. Plans obtainable from J. F. Byxbee, city engineer.

SEBASTOPOL, Sonoma Co., Cal.—City Engineer Mueller reports to city council the need for an auxiliary pump and other equipment in connection with the sewage disposal plant.

SAN FRANCISCO—Bureau of Engineering, Department of Public Works completes specifications to sewer Detroit St. between Joost and Monterey Sts. Est. cost \$1,000, involving:

200 lin. ft. 12-in. V.C.P. sewer;
1 brick manhole;
4 12x6-in. Y or T branches.

SAN FRANCISCO—Bureau of Engineering, Department of Public Works completes specifications to sewer Quint St. between Evans and Newcombe Aves. Est. cost, \$9300, involving:

258 lin. ft. 12-in. V.C.P. sewer;
2,386 lin. ft. 15-in. do;
96 lin. ft. 18-in. do;
96 lin. ft. 21-in. do;
32 lin. ft. 24-in. do;
10 brick manholes;
2 12x8 Y or T branches;
34 15x8-in. do.

BERKELEY, Alameda Co., Cal.—W. J. Tobin, 572 Balfour, Berkeley, at \$4,979 awarded contract by city council to construct sewer in Indian Rock Ave., from The Circle northerly to San Diego Road. Following is a complete list of the bids:
W. J. Tobin, Berkeley.....\$4,979
Robert McNair.....5,912
Oakland Sewer Const. Co.....7,677

NEWPORT BEACH, Orange Co., Cal.—Currie Engineering Co., 219 Anderson Bldg., San Bernardino, has completed and has presented to the city council plans for the new sewage disposal plant to be built at the mouth of the Santa Ana river. Estimated cost \$185,000.

MONTEREY, Monterey Co., Cal.—Until November 25 bids will be received by Quartermaster, Presidio of Monterey for extension of the water system and the construction of the drainage system at the Presidio of Monterey. Plans obtainable from Quartermaster on deposit of \$5.

SANTA BARBARA, Cal.—City declares intention (1124) to construct sewers in Mountain Ave., bet. Pedregosa St. and northwest line of Mountain View Terrace, involving vitrified sanitary sewer, appurtenances, and manhole; 191ft. Act. Protests, Dec. 4. E. B. Brown, city engineer. Geo. D. Geib, city clerk.

WATER WORKS

STRATFORD, Kings Co., Cal.—E. W. Redman, Fresno, at approximately \$20,500 awarded contract by Stratford Public Utility District to construct water distributing system involving 4-in. to 8-in. pipe; 30,000-gallon steel tank; hydrants, etc.

MONTEREY, Monterey Co., Cal.—Until November 25 bids will be received by Quartermaster, Presidio of Monterey, for extension of the water system and the construction of the drainage system at the Presidio of Monterey. Plans obtainable from Quartermaster on deposit of \$5.

CONTRACTORS' MACHINE WORKS

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Bunkers, Hoppers, Chuting, Conveyors, Rollers, Mixers, Hoists, Shovels, Tractors, Pavers, Crushers, Drag Lines, Elevators, Car Unloaders, and other Road and Building Equipments;

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CREAR & BATES

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San Francisco

PHOENIX, Ariz.—Until 10 A. M. Dec. 2, bids will be received by the city manager, Geo. H. Todd, for laying of pipe lines, together with appurtenances, from the Verde intake to and connections made with, the distribution system; also for a reinforced concrete lined reservoir and a water distribution system within the city of Phoenix. The system to be constructed consists of:

- (1) 31.5 miles supply line in sizes from 24-in. to 54-in. in dia.;
- (2) 8 miles of distribution system, 6-in., 8-in. and 12-in. in dia.;
- (3) one 20,000-gal. reservoir;
- (4) one detritor.

Bidder shall state in his bid the date he proposes to complete the contract. The award of contract or contracts shall be upon the basis of obtaining the maximum in efficient construction for the least expenditures. In comparing the bids, consideration will be given to the relative factors of safety, adaptability to the conditions, probable life, carrying capacity, and the cost of the various kinds of pipe or which proposals are submitted. Plans may be seen at the office of the city engineer, or copies may be secured by payment of \$10 for each of specifications and \$20 for each set of plans. Certified check for 5% of the bid must accompany each proposal. W. J. Jameson, city engineer. C. C. Kennedy, consulting engineer. Call Bldg., San Francisco.

QUARRY HEIGHTS, C. Z.—See "Reservoirs and Dams" this issue. Bids wanted for excavation for three 1,500,000-gallon concrete water reservoirs for reservoir construction and water main extensions.

SAN FRANCISCO—Until November 24, 3 P. M., under Proposal No. 657, bids will be received by Leonard S. Leach, city purchasing agent, 270 City Hall, to furnish underground brass fittings for the San Francisco Water Department. Specifications obtainable from above.

STREETS AND HIGHWAYS

SANTA CRUZ, Santa Cruz Co., Cal.—Until Nov. 24, 2 P. M., bids will be received by H. E. Miller, county clerk, to improve Palm Ave. from Lake Ave. to Watsonville city limits, including crossings, involving asphaltic macadam surface on 5-in. waterbound macadam base, cement concrete curbs and gutters. County Improvement Act 1921. Bond Act 1915. County will pay \$2,000 of cost from Pajaro Road Section 1 fund. Certified check 10% payable to county required with bid. Plans obtainable from County Surveyor Lloyd Bowman.

COCOONINO COUNTY, Ariz.—Until Dec. 2, 2 P. M., bids will be received by C. H. Sweetser, district engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, to grade 2.818 miles of Section C of Route 7, Oak Creek National Forest Highway, in Cocoonino National Forest, involving:

- 22 acres clearing;
- 149,000 cu. yds. excav., unclass.;
- 1,850 cu. yds. excav. for struc.;
- 143,600 sta. yds. overhaul;
- 2.818 miles finish earth graded roads
- 6,000 lin. ft. wood guard rail;
- 198 cu. yds. class A concrete;
- 156 cu. yds. class D concrete;
- 47,620 lbs. reinforcing steel;
- 920 cu. yds. cem. rubble masonry;
- 1,852 lin. ft. corrug. metal pipe;
- 147,000 lbs. structural steel;
- 940 cu. yds. hand laid rock embankment.

Plans obtainable from district engineer on deposit of \$10, checks for same to be made payable to the Federal Reserve Bank of San Francisco.

SAN FRANCISCO—Federal Const. Co., Call Bldg., at \$5,421 submitted low bid to Board of Public Works for paving at Municipal Airport. Complete list of bids follows:

Federal Const. Co.	\$5,421
C. B. Eaton	6,346
C. Harney	6,496
Fay Imp. Co.	6,989
A. G. Talsch	7,194
Meyer Rosenberg	7,581
J. P. Holland	8,050

TEHAMA COUNTY, Cal.—Nate Lovelace, 3433 N St., Sacramento, at \$99,765 awarded contract by U. S. Bureau of Public Roads, 461 Market St., San Francisco, to grade Section A, Route 21, Deer Creek National Forest Highway, in Lassen National Forest, Tehama County, 3408 miles, involving: 25.32 acres clearing; 137,500 cu. yds. excav. unclass.; 325 cu. yds. structure excav.; 14,045 sta. yds. overhaul; 3408 miles finishing; 140 sq. ft. crib face in place; 62 lin. ft. double 6x6-ft. log culvert in place; 818 ft. 18-in., 260 ft. 24-in., 32 ft. 30-in. and 276 ft. 36-in. C.M.P.; 344 cu. yds. hand laid rock embankment; 100 right-of-way monuments.

REDWOOD CITY, San Mateo Co., Cal.—Harranah Co., Standard Oil Bldg., San Francisco, at \$15,075 awarded contract by county supervisors to repair and pave a portion of Hillside Boulevard, formerly known as San Bruno Ave., in First Supervisorial District. Union Paving Co., Call Bldg., San Francisco, next low at \$15,922.

EUREKA, Humboldt Co., Cal.—U. S. Pipe and Foundry Co., Monadnock Bldg., San Francisco, awarded contract by city council to furnish and deliver 1,800 lin. ft. of 16-in. class B cast iron water pipe or equal with bell and spigot joint; f.o.b. wharf. Eureka. 35

SUTTER COUNTY, Cal.—N. M. Fall Porterville, at \$8860 submitted only bid to C. H. Whitmore, district engineer, State Highway Commission, Sacramento, Nov. 10, to grade and pave with Portland cement concrete, 0.3 mile near the county hospital in Sutter County. Bid held under advisement.

OAKLAND, Calif.—C. H. Purcell, state highway engineer, has recommended to the supervisors of Contra Costa, Alameda and Santa Clara counties a route for the proposed Richmond to San Jose bayshore industrial highway of Greater Oakland The recommended route is: From San Jose west of the present county road, approx. one mile; north skirting the bay to San Leandro; then north of the Oakland airport, skirting the Oakland industrial res.; thence to Fifth and Cypress Sts., Oakland, and from there

north to Richmond. At Richmond two branches are proposed, one to the connection with the proposed Richmond-San Rafael Bay bridge, the other to San Pablo Ave. and then e to the Carquinez bridge.

SAN FRANCISCO—C. B. Eaton, 715 Ocean Ave., at \$19,251 awarded contract by Board of Public Works to improve Cayuga Ave. from Onedia Ave. to Seneca Ave. and Seneca Ave. from Otsego Ave. to Alemany Blvd., etc., involving grading, armored sidewalks, 8-in. and 12-in. vit. clay pipe sewers, brick catchbasins 2-in. asphalt conc. surface pavement on 6-in. class F concrete base.

SAN FRANCISCO—C. B. Eaton, 715 Ocean Ave., at \$4,320 awarded contract by Board of Public Works to improve Alameda St. bet. Potrero Ave. and York St. and west line of York St. including intersections of Hampshire St., involving grading.

SAN FRANCISCO—E. J. Treacy, Call Bldg., at \$1,350 awarded contract by Board of Public Works to improve crossing of Delano Ave. and Mount Vernon Ave., involving armored concrete curbs, 2-course cement concrete sidewalks, 8-in. and 12-in. vit. clay pipe sewers, brick manholes, brick catchbasins, 2-in. asphalt conc. pave. on 6-in. class F concrete base.

SAN FRANCISCO—E. J. Treacy, Call Bldg., at \$1,666 awarded contract by Board of Public Works to improve crossing of Kirkwood Ave. and Mendall St., involving grading, armored concrete curbs, 1-course cement sidewalks, brick catchbasins, 2-in. asphalt concrete pavement with 6-in. class F concrete base.

SALINAS, Monterey Co., Cal.—City council declares intention (92) to improve Natividad St., bet. West Lake St. and Menke St., involving grading; hyd. cem. conc. curbs, walks; 5-inch hydraulic cement concrete paving. 1911 Act. Bond Act 1915. Hearing December 1. M. R. Keef, city clerk. Howard Cozens, city engineer.

CARMEL, Monterey Co., Cal.—Engineer Howard Cozens, Salinas, commissioned by city council to prepare plans to pave Sixth St., bet. Monte Verde and Mission, and of Monte Verde, Lincoln, Dolores and Mission Sts., bet. Sixth and Ocean Sts.

SAN FRANCISCO—Municipal Construction Co., Call Bldg., at \$2,250 awarded contract by Board of Public Works to improve 44th Ave. between Moraga and Noriega Sts. (where not) involving armored concrete curbs, vit. clay pipe sewers, 2-in. asphalt concrete surface with 6-inch class F concrete base.

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BAKERSFIELD, Kern Co., Calif.—Until 5 P. M., Dec. 1, bids will be received by the city council for constructing sanitary sewers in blocks 241, 245 and 246, Bakersfield, formerly Kern, in District No. 609. The work involves:

- (1) 1333 ft. 6-in. cement sewer pipe;
- (2) 2 manholes;
- (3) 3 lampholes.

Estimated cost, \$1156. Act of 1911. V. Van Riper, city clerk.

APACHE COUNTY, Arizona—Until November 26, 2 p. m., bids will be received by C. H. Sweetser, district engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, to supply and place crushed material for subgrade reinforcement on Sections G and H of Route No. 19, Clifton-Springville National Forest Highway, 11.32 miles in length, involving:

- 14,900 cu. yds. crushed rock or crushed gravel for subgrade reinforcement;
- 59,000 sta. yds. hauling crushed rock or crushed gravel.

Plans obtainable from engineer on deposit of \$10, returnable, checks for same to be made payable to Federal Reserve Bank of San Francisco.

SAN DIEGO COUNTY, Cal.—Until November 25, 2 p. m., bids will be received by C. H. Sweetser, district engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, for grading Section B and placing selected material on Sections A and B of Route 75, Laguna National Forest Highway, in Cleveland National Forest, 10.36 miles in length, involving:

- 21 acres clearing;
- 28,750 cu. yds. excavation, unclassified;
- 200 cu. yds. excavation, for structures;
- 5,000 cu. yds. overhaul;
- 6.5 miles preparing roadbed;
- 1,096 lin. ft. corr. metal pipe in place;
- 19,000 cu. yds. selected material in place.

Plans obtainable from engineer on deposit of \$10, returnable, checks for same to be made payable to Federal Reserve Bank of San Francisco.

OAKLAND, Cal.—City council declares intention to improve Foothill Blvd., bet. Parker Ave. and Hollywood Blvd., and portions of Jones and Truman Aves., adjacent to Foothill Blvd., involving grading; curbs; paving; conduits; culverts; storm water inlets; etc. 1911 Act. City will pay 41% of total cost from Treasury. Hearing Dec. 4. Frank V. Merritt, city clerk. Walter N. Frickstad, city engineer.

HAYWARD, Alameda Co., Cal.—City council has started proceedings to pave Warren and Prospect streets, between Main and Simon Sts.

SAN FRANCISCO—Bureau of Engineering, Department of Public Wks completes specifications to improve Quesada St. bet. Griffith and Hawes Sts. Est. cost, \$1,200, involving:

- 125 lin. ft. armored concrete curb;
- 125 lin. ft. 6-in. V.C.P. side sewer;
- 3,125 sq. ft. asph. conc. pavement, 2-in. asph. conc. surf. on 6-in. class F concrete base.

SEBASTOPOL, Sonoma Co., Cal.—Until December 1, 7:30 P. M., bids will be received by F. G. McFarlane, city clerk (195-A) to improve one block of Burnett St., involving grading, 5-in. concrete pavement, concrete curbs. 1911 Act. Bond Act 1915. Certified check 10% payable to city required with bid. Plans on file in office of clerk.

SAN FRANCISCO—Until Nov. 19, 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to construct Section A of the Alemany Blvd., involving:

- (1) 100,000 cu. yds. excavation;
- (2) 2 brick manholes;
- (3) 100 lin. ft. 12-in. V.C.P. sewer;
- (4) 170 lin. ft. 18-in. do.;
- (5) 70 cu. yds. class B conc. in 18-inch sewer encasement, piers and tunnel bulkheads;
- (6) 7,000 lbs. bar reinforcing steel;
- (7) 600 lin. ft. 18-in. corr. pipe;
- (8) 1 redwood intake.

Estimated cost \$55,000. Cert. check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall.

PACIFIC GROVE, Monterey Co., Cal.—Until November 20, 7:30 P. M., bids will be received by Elgin C. Hurlbert, city clerk, (3276) to improve 3rd, 7th, 8th, 9th and 10th Sts. between Ocean View and Lighthouse Aves., and 4th and 5th Sts. bet. Central and Lighthouse Aves., involving cement concrete curbs and gutters; oil macadam surfacing; conc. catch-basins, 4-in. vit. clay lateral sewers. 1911 Act. Bond Act 1915. Certified check 10% payable to city required with bid. Plans on file in office of clerk.

ALAMEDA, Alameda Co., Cal.—City council declares intention (96) to improve Third St., bet. Pacific Ave. and Maple St., involving grading; conc. curbs, gutters, walks; corrugated iron culverts; 6-inch oil macadam pavement. 1911 Act. Hearing Dec. 3. W. E. Varcoe, city clerk. Burnett Hamilton, city engineer.

ALAMEDA, Alameda Co., Cal.—City council plans to widen Park Ave. bet. Central and Santa Clara Aves., by cutting down sidewalk walks 6 ft. on each side. Total estimated cost \$21,967 of which \$5767 would finance paving and \$16,200 for moving and reconstructing buildings.

ALAMEDA, Alameda Co., Cal.—J. P. Holland, Inc., 1834 McKinnon Ave., San Francisco, at \$175 cu. yd. awarded contract by city council to grade Industrial Highway.

SAN FRANCISCO—C. L. Harney, Call Bldg., at \$7,735 awarded contract by Board of Public Works to improve uncompleted portions of 26th Ave. bet. Ortega and Pacheco Streets; 41st Ave. bet. Noriega and Ortega Sts., etc., involving armored concrete curbs side sewers, 6-in. conc. base pavement with 1½-in. asph. conc. surface.

SAN FRANCISCO—G. A. Love and Son, 395 Collingwood Street, at \$700 awarded contract by Board of Public Works to construct artificial stone sidewalks in portions of Saturn St., 15th St., Ord St., etc.

REDWOOD CITY, San Mateo Co., Cal.—County Supervisors have started proceedings for sewer construction to meet the needs of Daly City and Colma in the north end of the county. Estimated cost \$146,000. George A. Kneese, county surveyor.

MADERA, Madera Co., Cal.—Until December 1, 8 P. M., bids will be received by city council to install sewage pump at disposal plant. Specifications on file in office of city clerk.

LOS ANGELES, Cal.—Consolidated Steel Corp., 1200 N. Main St., awarded contract to furnish and install one 50,000 gallon gravity tank, two 9000 gallon pressure tanks and one 5000 gallon house tank in the class A lab-

oratory building to be erected on 2nd St. bet. San Pedro St. and Central Ave., for the Brunswick Drug Co. MacDonald & Driver, general contractors, 311 Board of Trade Bldg. A. C. Martin, architect, 228 Higgins Bldg.

OFFICIAL PROPOSALS

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received at the office of the State Highway Engineer, Public Works Building, Sacramento, California, until 2 o'clock P. M. on December 3, 1930, at which time they will be publicly opened and read, for construction in accordance with the specifications therefor, to which special reference is made, of portions of State Highway, as follows:

Butte County, a steel bridge with concrete deck over the tracks of The Western Pacific Railroad Company and across North Fork of Feather River at Pulga (11-But-2-C), composed of one 349.95-foot steel arch span, one 821.4-foot plate girder span, one 79.06-foot plate girder span, two 62.51-foot plate girder spans, and one 44.02-foot plate girder span.

Proposal forms will be issued only to those Contractors who have furnished a verified statement of experience and financial condition in accordance with the provisions of Chapter 644, Statutes of 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Bids will not be accepted from a Contractor to whom a proposal form has not been issued by the Department of Public Works.

Plans may be seen, and forms of proposal, bonds contract and specifications may be obtained at the said office, and they may be seen at the offices of the District Engineers at Los Angeles and San Francisco, and at the office of the District Engineer of the district in which the work is situated. The District Engineers' offices are located at Eureka, Redding, Sacramento, San Francisco, San Luis Obispo, Fresno, Los Angeles, San Bernardino and Bishop.

A representative from the district office will be available to accompany prospective bidders for an inspection of the work herein contemplated, and Contractors are urged to investigate the location, character and quantity of work to be done, with a representative of the Division of Highways. It is requested that arrangements for joint field inspection be made as far in advance as possible. Detailed information concerning the proposed work may be obtained from the district office.

No bid will be received unless it is made on a blank form furnished by the State Highway Engineer. The special attention of prospective bidders is called to the "Proposal Requirements and Conditions" annexed to the blank form of proposal, for full directions as to bidding, etc.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

DIVISION OF HIGHWAYS

C. H. PURCELL,

State Highway Engineer.

Dated November 5, 1930.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received at the office of the State Highway Engineer, Public Works Building, Sacramento, California, until 2 o'clock P. M. on November 26, 1930, at which time they will be publicly opened and read, for construction in accordance with specifications therefor, to which special reference is made, of portions of State Highway, as follows:

Marin County, a bridge across Richardson Bay and over the tracks of the Northwestern Pacific Railroad at Manzanita (IV-Mrn-1-C), consisting of one 58'-0" plate girder lift span on concrete piers with pile foundations, one 45'-0" steel stringer span on concrete bents with pile foundations, and approximately 2340 feet of timber trestle on pile and frame bents.

Santa Clara County, between San Felipe and one mile east of Bells Station (IV-SCL-32-B-C), about ten and seven-tenths (10.7) miles in length, to be graded and paved with bituminous macadam.

Imperial County, between Araz and Yuma (VIII-Imp-27-B), about six (6.0) miles in length, to be graded and paved with asphalt concrete.

Proposal forms will be issued only to those Contractors who have furnished a verified statement of experience and financial condition in accordance with the provisions of Chapter 644, Statutes of 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Bids will not be accepted from a Contractor to whom a proposal form has not been issued by the Department of Public Works.

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DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS.

C. H. PURCELL,
State Highway Engineer.
Dated October 29, 1930.

COST OF FRAME HOUSE 13% LESS TODAY THAN YEAR AGO

The cost of building a six-room, story and a half frame house is 13 per cent less today than it was a year ago, according to figures obtained by the Marine Midland group of eighteen New York State banks. The actual figures were \$4,349.46 today, as compared with \$5,013.33 in 1929. This comparison was obtained by the banking group in the course of a survey of commodity prices, the results of which are being published in advertisements over the signatures of the member banks in the principal newspapers of the state. The purpose of the campaign is to help stimulate business by bringing to the attention of the public the opportunities for economical buying offered by present prices.

Not only is there a saving of 13 per cent in building a small house now as compared with a year ago, but the items most closely affecting repairing or remodeling jobs show savings as high as 25 per cent. The various items going into the total cost of the house are given in the banking group's survey report as follows:

	Today	1929
Masonry (including excavating)	\$595.50	\$701.39
Lumber & millwork	2044.66	2407.69
Plastering	325.00	335.00
Plumbing	475.00	482.00

Heating	210.00	250.00
Painting (interior and exterior) ..	335.00	400.00
Hardware (rough and finished fixtures) ..	77.00	97.55
Electrical fixtures (including wiring) ..	148.00	178.00
Tile	34.00	42.00
Gas Service	34.45	34.45
Shades	20.00	30.00
Miscellaneous (surveys, ins., permits) ..	50.85	50.85

\$4349.46 \$5013.33

The survey undertaken by the banking group will include, besides the building industry, the more important merchandise lines such as food, men's women's and children's clothing, furniture, household equipment, and automobiles. In each case the prices prevailing today will be compared with those of a year ago and the advertisements giving the results of the survey will point out the advantages of buying at the present time.

"Business recovery is being retarded by the false economy of the people whose incomes have not been affected by the depression," George F. Rand, president of the Marine Midland Corporation, stated. "Renewed buying by those who have the money available should stimulate business all along the industrial lines."

FRENCH ARCHITECT, WINNER OF SCHOLARSHIP, TO STUDY AIRPORTS

Award of the French traveling scholarship of the American Institute of Architects to Pierre Mathe of Paris is announced by Dr. Charles Butler of New York, chairman of the Institute's Committee on Education.

M. Mathe, who is twenty-eight years old, will tour the United States under the auspices of the Institute. Airports will be his chief field of study.

M. Mathe, who was chosen by a committee of leading French architects, has already won the Second Grand Prix de Rome, and still has two more opportunities to compete for the first prize. He has finished his training at the Ecole des Beaux Arts, and is already engaged in active practice, specializing in the design of airports in association with M. Martin, architect of the Midi Railroad in the Airport Branch of the Societe d'Appareillage et de Specialites Electriques.

He has studied airports of Germany, Holland and England, and, Dr. Butler's announcement pointed out, will be in a position to draw interesting comparisons between European and American methods of airport installation. The company for which he is architect has already completed plans for a number of airports to be constructed in 1931, of which that at Cannes on the Riviera is the most important.

M. Mathe superintended the construction of the new Casino at Dinard and various apartment houses in Paris. In association with M. Tatout, one of the best known of the successful younger architects of Paris, he took part in the competition for the League of Nations Building in Geneva.

The French traveling scholarship was established by William Adams Delano and his partner, Chester H.

Aldrich of New York, both fellows of the Institute. Mr. Delano, a former president of the New York Chapter of the Institute, is a member of the National Fine Arts Commission.

The French committee of selection was composed of Andre Arfvidsen, chairman, and Camille Lefevre, Georges Gromot, Auguste Pellechet, and Gustave Jaumes. Arfvidsen, Lefevre and Gromot are honorary corresponding members of the American Institute of Architects.

M. Arfvidsen, well known in America, is the architect for the new office building of the National City Bank in Paris, and M. Lefevre is architect of the Louvre. M. Pellechet, architect of the new Zurich Insurance Company building on the Grands Boulevards in Paris, has just been awarded the Grand Medaille of the Societe Centrale in Paris.

M. Jaumes, who in recent years has devoted himself especially to decoration, is known in Philadelphia for his great tapestries of the departure of the American troops for the war hung in Independence Hall, and for the tapestry of the Rivers of France in the salon of the steamship Ile de France. He has just been selected to design four large tapestry panels in the new French Embassy in Washington. M. Gromot is well known to many American students as head of a successful atelier of the Ecole des Beaux Arts.

The French scholarship plan, a development of the Institute's program of international relations, was initiated as an experiment three years ago by Julian Clarence Levi of New York, and was administered by a committee of which Mr. Levi was chairman. Mr. Delano and Mr. Aldrich will continue the scholarship under the administration of the Institute's Committee on Education.

Contracts Awarded

Liens, Acceptances, Etc.

BUILDING PERMITS

San Francisco County

No.	Owner	Contractor	Amt.
1442	Shafraan	Owner	1800
1443	Sprague	Tuomisto	1000
1444	Young	Owner	2000
1445	Andonakis	Psychogios	1000
1446	Arnold	Owner	3500
1447	Dale	Laughlin	7000
1448	Clifford	Barrett	6000
1449	Johnson	Owner	12000
1450	Meyer	Owner	8000
1451	Meyer	Owner	5000
1452	McCarthy	Owner	10000
1453	Morris	Owner	5000
1454	Raffetto	Fracchia	36650
1459	Dixon	Brumfield	1900
1460	Lucile	Rosn	4000
1455	Anderson	Owner	5000
1456	Progressive	Owner	20000
1457	Partman	Piasecki	3500
1458	Stevens	Owner	8000
1461	Bluet	Isaac	8000
1462	Ferrari	Owner	1900
1463	Geheran	Oyen	4000
1464	Hardiman	Owner	4000
1465	Martinielli	Owner	20000
1466	Merle	Owner	4500
1467	Americommercial	Jacks	15710
1468	Broderick	Coburn	4000
1469	Driscoll	Nelson	1000
1470	Figone	Owner	14000
1471	Goldstone	Blum	4000
1472	Jehn	Owner	3000
1473	Kavanagh	Owner	3500
1474	Meyer	Owner	10000
1475	S. F. Bank	Heyer	3000
1476	Sullivan	Owner	5000
1477	Svenson	Owner	3000
1478	Vayssie	Owner	1900

MOVING DWELLING

(1442) TWENTYETH AVE AND Lincoln Way. Move dwelling.
Owner—J. Shafraan, 515 18th Ave., San Francisco.
Architect—None. \$1800

ALTERATIONS

(1443) NO. 1444 FILLMORE. Alter store.
Trustee—I. Sprague, % 369 Pine St., San Francisco.
Architect—None.
Contractor—W. E. Tuomisto, 3550 San Bruno Ave., S. F. \$1000

REPAIRS

(1444) NO. 2000 CALIFORNIA. Repair fire damage.
Owner—E. E. Young, 2002 California St., San Francisco.
Architect—E. E. Young, 2002 California St., San Francisco. \$2000

ALTERATIONS

(1445) 84 EIGHTH ST.; alterations for lunch room.
Owner—Andonakis & Freitas, 84 8th Street.
Contractor—N. D. Psychogios, 471 Jessie St. \$1000

DWELLING

(1446) E VERMONT 137 S 19th St.; one-story and basement frame dwelling.
Owner—F. A. Arnold, 790 Kansas St. Architect—None. \$3500

ALTERATIONS

(1447) SW SAN MIGUEL and Mount Vernon; alterations to remodel (2) flats.

Owner—C. C. Dale, 1105 Hearst Bldg. Plans by Owner.
Contractor—Laughlin Const. Co., 421 Mills Bldg. \$7000

KITCHEN

(1448) NW COR. CLARA and Ritch; one-story class B kitchen.
Owner—H. G. Clifford, 918 Harrison. Architect—E. A. Eames, 353 Sacramento Street.
Contractor—Barrett & Hilp, 918 Harrison Street. \$6000

SHOP

(1449) W FOTRERO 286 N 15th St.; one-story class C electric shop.
Owner and Builder—L. Johnson, 729 Occidental Ave., San Mateo.
Architect—None. \$12 000

DWELLINGS

(1450) W CHARES 204 S Evelyn; two one-story and basement frame dwellings.
Owner and Builder—Meyer Bros., 727 Portola Drive.
Plans by D. T. Eurks, 727 Portola Dr. \$8000

DWELLING

(1451) N CHARES 79 W Del Sur; one-story and basement frame dwelling.
Owner and Builder—Meyer Bros., 727 Portola Drive.
Plans by D. T. Eurks, 727 Portola Dr. \$5000

DWELLINGS

(1452) NW 19th and KIRKHAM; two 2-story and basement frame dwellings.
Owner and Builder—J. E. McCarthy, 1342 Funston Avenue.
Plans by Owner. \$10,000

DWELLING

(1453) SW MANOR and Kenwood; 1-story and basement frame dwelling.
Owner—G. W. Morris, 95 Pinehurst. Plans by D. E. Jaekle, Call Bldg. \$5000

APARTMENTS

(1454) SE UNION and Pierce Sts.; three-story and basement frame (6) apartments.
Owner—W. J. Raffetto, 401 Columbus Avenue.
Architect—A. A. Schroepfer, 681 Market Street.
Contractor—Fracchia & Truffelli, 2450 Chestnut St. \$36,650

CAPITAL CITY TILE COMPANY

J. C. PALEN
Manager

914 Seventh Street
Sacramento - - - - California

DWELLING

(1455) N DEWEY 331 E Pacheco; 1-story and basement frame dwelling.
Owner—C. Anderson, 150 Granville Way. Architect—None. \$5000

ALTERATIONS

(1456) 660 BUSH ST.; alterations to apartments for hotel.
Owner—Progressive Trading Co., Matson Building.
Engineer—J. C. Little & Co., 251 Kearny St. \$20,000

ALTERATIONS

(1457) 235 NINTH ST.; alterations for print shop.
Owner—Partman Bros., 235 9th St. Plans by Mr. Piasecki.
Contractor—J. Piasecki, 345 Haight Street. \$3500

FLATS

(1458) E 27th AVE. 175 N Fulton St.; two-story and basement frame (2) flats.
Owner and Builder—C. A. Stevens, 629 33rd Ave.
Plans by Owner. \$8000

SIGN

(1459) GEARY ST. near Eighteenth Ave. Electric sign.
Owner—Dixie Dixon's.
Architect—None.
Contractor—Brumfield Elec. Sign Co., 965 Folsom St., S. F. \$1900

DWELLING

(1460) HALE ST. LOTS 7 AND 8, Herman Tract. One-story and basement frame dwelling.
Owner—J. Lucile, 308 Hale St., San Francisco.
Architect—None.
Contractor—M. Rosn, 1018 Valencia St., San Francisco. \$4000

DWELLINGS

(1461) SE SAN JOSE AVE. 126 NE Whipple; two 1-story and basement frame dwellings.
Owner—I. J. Eluett.
Architect—B. K. Dobkowitz.
Contractor—H. H. Isaac, 151 Farragut Ave. each \$4000

SERVICE STATION

(1462) SW SAN JOSE AVENUE. and Broad; one-story steel service station.
Owner—E. F. Ferrari.
Architect—R. R. Irvine, 747 Call Bldg. \$1900

DWELLING

(1463) E 28th AVE. 100 N Kirkham; one-story and basement frame dwelling.
Owner—F. J. and H. Geheran.
Architect—None.
Contractor—J. P. Oyen, 548 9th Ave. \$4000

DWELLING

(1464) S KIRKHAM 95 W 18th Ave.; one-story and basement frame dwelling.
Owner—M. D. Hardiman, 423 38th Avenue.
Architect—None. \$4000

RESTAURANT

(1465) NW COLUMBUS and Chestnut; 2-story and basement frame restaurant.

Owner—F. L. Martinelli, 3743 Scott St.
Architect—Miller & Pflueger, 530 Market Street.
Contractor—J. Martinelli, 666 Mission Street. \$20,000

DWELLING

(1466) S WOOLSEY 92 E Girard; 1-story and basement frame dwelling.

Owner—N. Merlo, 2864 San Bruno Ave.
Architect—None. \$4500

RANK

(1467) SE HAYES and Divisadero; one-story and basement frame bank.

Owner—Americommercial Co., Clay & Montgomery Sts.
H. A. Minton, Clay and Montgomery.
Contractor—Jacks & Irvine, 74 New Montgomery St. \$15,710

REPAIRS

(1468) 670 GRANT AVE.; repair fire damage.
Owner—Estate of J. A. Broderick and I. Tognazzini, 2048 Market St.
Architect—None.
Contractor—L. W. Coburn, 2048 Market Street. \$4000

SERVICE STATION

(1469) SW POWELL and Pacific; 1-story and basement frame service station.
Owner—F. J. Driscoll, 166 Beaver St.
Plans by D. E. Jackle, Call Bldg.
Contractor—A. Nelson, 242 Ocean Ave. \$1000

APARTMENTS

(1470) SE ARMY and Alabama; two-story & basement frame (4) apts.
Owner—L. Pigone, 2003 16th St.
Architect—G. A. Berger, 309 Valencia Street. \$14,000

DWELLING

(1471) NW BURROWS 81 S Brussels; one-story and basement frame dwelling.
Owner—H. C. Goldstone, 65 Whittier Street.
Architect—None.
Contractor—J. Blum, 212 Sillman St. \$4000

DWELLING

(1472) E VICTORIA 500 N Garfield; one-story and basement frame dwelling.
Owner—G. Jehn, 510 Hearst St.
Architect—None. \$3000

DWELLING

(1473) W 32nd AVE. 175 N Santiago; one-story and basement frame dwelling.
Owner—D. Kavanagh, 1121 Ordway.
Plans by Owner. \$3500

DWELLINGS

(1474) E 17th AVE. 175 N Ulloa; two one-story and basement frame dwellings.
Owner—Meyer Bros., 727 Portola Dr.
Plans by D. T. Burks, 727 Portola Dr. each \$5000

ALTERATIONS

(1475) 550 CALIFORNIA ST.; alterations to front for bank.
Owner—The San Francisco Bank, 526 California St.
Architect—Ward & Blohne, 24 California St.
Contractor—C. W. Heyer, Mills Bldg. \$3000

DWELLING

(1476) S DARIEN 72 E Westgate; 1-story and basement frame dwelling.
Owner—T. J. Sullivan, 1967 Ocean Avenue.
Plans by E. Boldemann, 1967 Ocean Avenue. \$5000

DWELLING

(1477) E ELK ST. 80 S Sussex; one-story and basement frame dwelling.

Owner—O. T. Svenson, 336 Clementina St.
Architect—None. \$3000

ALTERATIONS

(1478) 480 ELLIS ST.; alterations to baths.
Owner—A. Vayssie, 610 Leavenworth.
Architect—Fabre & Hildebrand, 119 Sutter St. \$1900

BUILDING CONTRACTS

San Francisco County

No.	Owner	Contractor	Amt.
223	Douglas	Douglas	—
224	Protestant	Papenhausen	6000
225	Martinet	Bourdieu	15710
226	Americommercial	Jacks	15716
227	S F Bank	Heyer	3195
228	McLean	Duerner	3648
229	McLean	Folan	2150
230	Hyde St.	Mohr	1050

BUILDING

(223) W 29th AVE. 65 N Ulloa 35 by 32-6; all work on frame building.
Owner—Samuel Douglas, 2491 29th Avenue.
Architect—None.
Contractor—Samuel Douglas, 2491 29th Avenue.
Filed Nov. 6, 1930. Dated —.
Specifications and plans only filed, no agreement.

ADDITIONS

(224) LOTS 17, 18, 19, 20 and 21 Blk 3257 Map of Balboa Terrace Addn. All work on Guild Hall additions.
Owner—Protestant Episcopal Bishop of California.
Architect—E. Coxhead.
Contractor—H. Papenhausen, 595 Victoria Street.
Filed Nov. 7, '30. Dated Oct. 20, '30.
Frame up \$1500
Brown coated 1500
Completed and accepted 1500
Usual 35 days 1500
TOTAL COST, \$6000
Bond, \$3000. Sureties, E. J. Kraus and H. W. Gaetjen. Forfeit \$5 per day. Limit, 65 days.

APARTMENTS

(225) W DIVISADERO 50 S Lombard S 60 x W 37-6; all work for 5-story frame apartment building.
Owner—P. Martinet, 3155 Divisadero.
Architect—G. A. Berger, 309 Valencia St., San Francisco.
Contractor—J. B. Bourdieu and Son, 2625 20th St.
Filed Nov. 8, '30. Dated Nov. 6, '30.
TOTAL COST, \$15,710
Bond, \$8,000. Sureties, Remy Lassalle and J. B. Orogren. Forfeit \$10 per day. Limit, \$90 days. Plans and Spec. filed.

BANK

(226) SE HAYES and Divisadero; all work on 1-story mezzanine and part basement bank building.
Owner—Americommercial Corp.
Architect—H. A. Minton, Underwood Building.
Contractor—Jacks & Irvine, Inc., 74 New Montgomery St.
Filed Nov. 10, '30. Dated Nov. 7, '30.
1st and 15 of each month 75%
Usual 35 days 25%
TOTAL COST, \$15,716
Bond, \$15,716. Sureties, Standard Accident Ins. Co. Forfeit, \$50. Limit, Feb. 10, 1931. Plans and Spec. filed.

GRANITE WORK, ETC.

(227) 550 CALIFORNIA ST.; cutting and drilling, new and old granite work, brickwork, terra cotta work, etc.
Owner—The San Francisco Bank, 550 California St.
Architect—Ward & Blohne, 24 California St.

Contractor—Charles W. Heyer, Mills Building.
Filed Nov. 10, '30. Dated Oct. 30, '30.
Work half done \$1198.12
Completed and accepted 1198.13
36th day after 798.75
TOTAL COST, \$3195
Limit 30 days. Plans and Spec. filed.

DWELLING

(228) S HEARST AVE. and E Congo St. S 25 x E 100; all work on 1-story and basement frame dwelling.
Owner—J. D. McCarthy, 46 Kearny.
Architect—None.
Contractor—Wm. Duerner, Jr., 166 Miramar Ave.
Filed Nov. 10, '30. Dated Nov. 8, '30.
Roof on 25%
First coat of plaster 25%
Completed and accepted 25%
35 days after 25%
TOTAL COST, \$3648
Forfeit, \$1 per day. Limit, 90 days.
Plans and Spec. filed.

PLASTERING

(229) N 18th 111-3½ West Guerrero W 47-11 N 127-10 E 31-10½ S 128-3; plastering for alterations and additions.
Owner—Isabella McLean, 3632 18th St.
Architect—G. A. Berger, 309 Valencia Street.
Contractor—John Folan, 3558 25th St.
Filed Nov. 12, '30. ated.
Brown coated \$1000
Completed and accepted 600
Usual 35 days 550
TOTAL COST, \$2150
Bond, \$1100. Sureties, Mary Maughan and Margaret Bourne. Forfeit, \$10. Plans and Spec. filed.

PAINTING

(230) E HYDE ST. bet. Greenwich & Lombard Sts.; cleaning, water-proofing and painting apartment buildings.
Owner—2240 Hyde St., Inc.
Architect—Albert A. Schroeffer, 681 Market St.
Contractor—J. A. Mohr & Son, 433 11th St.
Filed Nov. 12, '30. ated Nov. 6, '30.
When 50% completed \$387.50
Completed and accepted 000.00
Usual 35 days 262.50
TOTAL COST, \$1050
Bond, \$525. Sureties, Globe Indemnity Co. Limit, 20 days. Spec. filed.

COMPLETION NOTICES

San Francisco County

Recorded November 6, 1930
Nov 7, 1930—SW ULLOA and Rockaway W 206-63 SW 22-475 S 86 E 33-652 S 31-668 E 89-997 N 220-7 NW 22-673. Roman Catholic Archbishop of San Francisco to J. A. Bryant, Ltd. October 31, 1930
Nov 7, 1930—ISLAIS Creek, Southern Pacific Co. to Fay Imp Co. November 5, 1930
Nov 7, 1930—E 43rd AVE 50 S 2-alboa S 25 x E 82-6. N Thompson to whom it may concern. November 6, 1930
Nov 7, 1930—SW 15th and Howard S 100 x W 100. General Petroleum Corp. of California to Gauley and Yount. October 31, 1930
Nov 6, 1930—N LOMBARD ST 141-3 W Octavia W 50 x N 137-6. E Ravin to Chas Chlappa. Nov 5, 1930
Nov 6, 1930—S GREEN ST 137-6 W Hyde St W 20 x S 77-6. A Cravotto to G Dikrazia. Nov 4, 1930
Nov 6 1930—N CALIFORNIA 91-9 N on said line from pt which is 100-5 W Kearny W 39 x N 45-9. Stauffer Chemical Co. to Emil Hogberg. October 31, 1930
Nov 6, 1930—E 20th AVE 325 N Taraval. Noah Swanson to whom it may concern. November 6, 1930
Nov 6, 1930—526 CALIFORNIA ST.

The San Francisco Bank to Braas & Kuhn Co. October 23, 1930
 Nov 5, 1930—LOT 5 18LK 3264 Mt Davidson Manor. G W Morris to whom it may concern.....
 November 4, 1930
 Nov 5, 1930—N MUNICH and Russia Ave NW 50 x NE 75 blk SI Excel Hld Assn. G M Battersby to whom it may concern.....
 November 5, 1930
 Nov 3, 1930—W 18th Ave 220 S Lawton. A Halsen to whom it may concern..... October 31, 1930
 Nov 3, 1930—S VICENTE 27-6 E 15th Ave. Charles Andersen to whom it may concern..... Nov 2, 1930
 Nov 3, 1930—NE 17th AVE and Vicente 25 on 17th Ave x 97 on Vicente. L B Hammond to whom it may concern..... October 31, 1930
 Nov 3, 1930—W WEST PORTAL Ave 56-74 S Vicente St. C A Chaquette vs Chas T Magill.....
 November 3, 1930
 Nov 10, 1930—LOTS 20, 21, 22, 23, 24 and 25 Blk 2948A, map Sub No 6 Miraloma Park. Meyer Pros to whom it may concern..... Nov 10, 1930
 Nov 10, 1930—S 29th ST 130 W Noe St 25x114. P & C Flannery to J Michael and C Bomerer.....
 November 7, 1930
 Nov 10, 1930—S VALLEY 130 W Noe 25x114. R Vasquez to whom it may concern..... October 25, 1930
 Nov 10, 1930—NW POLK and Bush. Rosa Gerson, Eva Eryer, Lena Cohnreich to Phillip Friedman.....
 November 10, 1930
 Nov 10, 1930—W 18th Ave 200 S Kirkham S 25 x W 120. Michael D and Mary A Hardiman to whom it may concern.....
 November 10, 1930

LIENS FILED

San Francisco County

Recorded	Amount
Nov 7, 1930—N CALIFORNIA ST and W Fillmore St W 81-3 x N 106-2 1/4. N Portnoy, \$154.50; E Burke, \$32; H Edward, \$68, vs S Scatena and M Gustafik.....	
Nov 3, 1930—NW PINE and Larkin W 135 x N 137-6. John Cassaretto vs Isabella Cowell and Messrs Keys and Silverson.....	\$31

RELEASE OF LIENS

San Francisco County

Recorded	Amount
Nov. 8, 1930—COMG. 125 N Santiago th along E 33nd Ave N 25 E 120 S 25 W 120 m or l to beg. Christensen Carson Co to whom it may concern.....	
Nov 5, 1930—135 NAPLES ST. W H Meyers to A Costantino.....	\$53.50

BUILDING PERMITS

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
1396	Cooper	Bokkelen	1000
1397	Western	Independent	1300
1398	Urch	Owner	6200
1399	Morris	Dyer	5800
1400	Southern	Owner	1350
1401	Sweets	Wonderlite	10690
1402	Marietti	Owner	2000
1403	Turner	Armstrong	6000
1404	Walters	Owner	4000
1405	Wood	Hammerburg	4000
1406	Beeman	Independent	1000
1407	Rosa	Owner	1000
1408	Wakefield	Heyer	2000
1409	Legault	Prentice	2175
1410	Malloy	Owner	3900
1411	Garfinkle	Roth	4500
1412	Jones	Melrose	1800
1413	Conlogue	Owner	6200
1414	Flagg	Owner	3000

ALTERATIONS
 (1396) NO. 1147 HIGH COURT, **BERKELEY**. Alterations.
 Owner—Frank Cooper.
 Architect—None.
 Contractor—W. K. Van Bokkelen, 354 Hobart St., Oakland. \$1000

STATION
 (1397) NO. 1515 SOLANO AVE., **BERKELEY**. Gasoline service station and comfort station.
 Owner—Western Oil Co., Latham Square Bldg., Oakland.
 Architect—None.
 Contractor—Independent Iron Works, 1824 Chase St., Oakland. \$1300

DWELLING
 (1398) 5706 ROSS ST., **OAKLAND**; one-story 6-room dwelling and 1-story garage.
 Owner and Builder—Ernest W. Urch, 1924 50th Ave., Oakland.
 Architect—None. \$6200

SHED
 (1399) N ELMWOOD ST. opp Derby St., **OAKLAND**; one-story brick shed.
 Owner—Morris Draying Co., Second and Webster Sts., Oakland.
 Architect—R. C. Schuppert, 4637 Park Blvd., Oakland.
 Contractor—Dyer Const. Co., 701 Ray Bldg., Oakland. \$5500

PLATFORM
 (1400) SE COR. FIRST and Webster Sts., **OAKLAND**; loading platform.
 Owner and Builder—Southern Pacific Co., Oakland Pier.
 Architect—None. \$1350

SIGNS
 (1401) SE COR. GRAND AVE. and Webster Sts., **OAKLAND**; marquee sign and electric sign.
 Owner—Sweet's Persian Garden.
 Contractor—Wonderlite Co., 170 Otis St., San Francisco. \$10,000

RESIDENCE
 (1402) NO. 1320 STANNAGE AVE., **BERKELEY**. One-story 5-room 1-family frame residence.
 Owner—C. Marietti, 1201 Stannage Ave., Berkeley.
 Architect—None. \$2000

RESIDENCE
 (1403) NO. 414 MICHIGAN AVE., **BERKELEY**. Two-story 7-room 1-family frame residence.
 Owner—J. M. Turner, 969 62nd St., Oakland.
 Architect—O. Armstrong, 947 Ordway St., Berkeley.
 Contractor—Armstrong & Gates, 947 Ordway St., Berkeley. \$6000

DWELLING
 (1404) NO. 961 GLEN DRIVE **SAN LEANDRO**. One and one-half-story 6-room frame and stucco dwelling.
 Owner—B. Walters, 1906 107th Ave., Oakland.
 Architect—L. H. Cox, 2728 Prinee St., Berkeley. \$4000
RESIDENCE
 (1405) NO. 175 POPLAR LANE, **BERKELEY**. One-story 5-room 1-family frame residence.
 Owner—W. S. Wood, 2340 Le Conte Ave., Berkeley.
 Architect—None.
 Contractor—Albert Hammerberg. \$4000

SERVICE STATION
 (1406) SW COR. 38th AVE. and Football Blvd., **OAKLAND**; one-story steel service station and 1-story steel comfort station.

Owner—Sarah Beeman.
 Architect—None.
 Contractor—Independent Iron Works, 1824 Chase St., Oakland. \$1000

ADDITION
 (1407) 1171 73rd AVE., **OAKLAND**; addition.
 Owner and Builder—John P. Rosa, 5733 Elizabeth St., Oakland.
 Architect—None. \$1000

ALTERATIONS
 (1408) 426 11TH STREET, **OAKLAND** alterations.
 Owner—Wakefield Bldg.
 Architect—None.
 Contractor—Chas. W. Heyer, Jr., Mills Bldg., San Francisco. \$2000

STATION
 (1409) NO. 497 E-FOURTEENTH ST. **SAN LEANDRO**. One-story brick oil station and rest room.
 Owner—Mrs. Legault, 809 Zoreada Ave., Oakland.
 Architect—Al. Philbrick.
 Contractor—Frentice Construction Co., 4650 San Pablo Ave., Oakland. \$2175

RESIDENCE
 (1411) NO. 560 SPRUCE ST., **BERKELEY**. One-story 6-room 1-family frame residence.
 Owner—Charlott Malloy, 622 Highland Ave., Piedmont.
 Architect—G. M. McGregor. \$3400

STORE
 (1411) 1129 PARK ST., **ALAMEDA**; one-story 1-room frame and stucco store.
 Owner—D. Garfinkle, 1171 Park Ave., Alameda.
 Plans by Owner.
 Contractor—Conrad Roth, 2109 Central Ave., Alameda. \$4500

SERVICE STATION
 (1412) NW COR. 14th AVE. and E 14th St., **OAKLAND**; one-story tile service station and one-story steel service station.
 Owner—J. R. L. Jones.
 Architect—None.
 Contractor—Melrose Steel Co., 1200 47th Ave., Oakland. \$1800

DWELLINGS
 (1413) 2831-2829 61st AVENUE, **OAKLAND**; two 1-story 6-room dwellings and garages.
 Owner and Builder—F. W. Conlogue, 2607 64th Ave., Oakland.
 Architect—None. each \$2100

DWELLING
 (1414) 3415 GUIDO ST., **OAKLAND**; one-story 5-room dwelling and 1-story garage.
 Owner and Builder—J. S. Flagg, 3562 Redwood Road, Oakland.
 Architect—None. \$3000

BUILDING CONTRACTS

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
120	Regents	NePage	15704
121	Regents	Barrett	46516
122	Morris	Dyer	5850
123	McNall	Steindel	11028
123	Regents	Turner	56355
135	Associated	Davies	2906

MECHANICAL EQUIPMENT
 (130) CAMPUS of the University of California, Berkeley; installation of mechanical equipment in Engineering Laboratory Building.
 Owner—The Regents of the University of California, Berkeley.
 Architect—G. W. Kelham, 315 Montgomery St., San Francisco.
 Contractor—NePage-McKinney Co., 7 Front St., San Francisco.

Filed Nov. 5, '30. Dated Nov. 4, '30.
First of each month..... 75%
Usual 35 days..... Balance
TOTAL COST, \$15,794
Bond: Labor and Materials, \$10,000;
Performance, \$10,000. Sureties, Pacific Indemnity Co. Forfeit, \$20 per day. Limit, 300 days. Plans and Spec. filed.

(131) GENERAL CONSTRUCTION
on above.
Contractor—Barrett & Hily, 918 Harrison St., San Francisco.
Filed Nov. 5, '30. Dated Oct. 31, '30.
First of each month..... 75%
Usual 35 days..... Balance
TOTAL COST, \$465,616
Labor and Materials, \$233,000; Performance, \$233,000. Sureties, Columbia Casualty Co. Forfeit, \$250 per day. Limit, 300 days. Plans and Spec. filed.

SHEDS

(132) N ELMWOOD opp. Derby St., Oakland; general construction on equipment sheds.
Owner—Morris Draying Co., First and Webster Sts., Oakland.
Architect—Richard C. Schuppert, 4637 Park Blvd., Oakland.
Contractor—Dyer Const. Co., Ray Bldg., Oakland.
Filed Nov. 6, '30. Dated Nov. 5, '30.
15th of each month..... 40%
On completion..... 75%
Usual 35 days..... Balance
TOTAL COST, \$5850
Limit, 30 days. Plans filed.

MECHANICAL EQUIPMENT

(133) CAMPUS of the University of California, Berkeley; installation of the mechanical equipment in the Engineering Bldg., in the Engineering Laboratory and in the Hesse Hall addition.
Owner—The Regents of the University of California, Berkeley.
Architect—Geo. W. Kelham, 315 Montgomery St., San Francisco.
Contractor—The Turner Co., 329 Tehama St., San Francisco.
Filed Nov. 7, '30. Dated Nov. 5, '30.
1st of each month..... 75%
Usual 35 days..... Balance
TOTAL COST, \$56,355
Bond: Labor and Materials, \$28,500; Performance, \$28,500. Sureties, U. S. Guarantee Co. Forfeit, \$50 per day. Limit, 300 days. Plans and Spec. filed.

RESIDENCE

(134) LOTS 1 and 2 BLK 21, North Cragmont, Berkeley; general construction on 8-room frame and stucco residence.
Owner—Oswald W. S. and Florence M. McCall, Berkeley.
Architect—None.
Contractor—Sam Steindell, 35 Northampton, Berkeley.
Filed Nov. 10, '30. Dated Oct. 30, '30.
When 1st floor is laid..... 20%
When roof is on..... 20%
When plastered..... 20%
When completed..... 20%
35 days after..... 20%
TOTAL COST, \$11,028
Bond, \$11,028. Sureties, Royal Indemnity Co. Forfeit, \$5 per day. Limit, 105 days.

CLEANING & PAINTING

(135) WEBSTER ST. at Oakland Estuary, Alameda; cleaning and painting at company's distributing plant.
Owner—Associated Oil Co., 2395 Webster St., Alameda.
Architect—None.
Contractor—A. H. Davies, 4150 Broadway, Oakland.
Filed Nov. 12, '30. Dated Nov. 7, '30.
10 days after completion..... 75%
Usual 35 days..... 55%
TOTAL COST, \$2900
Bond, \$3,000. Sureties, Fidelity and Casualty Co. of N. Y. Limit, 35 days. Spec. filed.

COMPLETION NOTICES

Alameda County

Recorded	Accepted
Nov 7, 1930—1-TN LOTS 1 and 2 Blk 12, Cragmont, Berkeley. Mrs Mary M Walton to J Harry Smith	November 7, 1930
Nov 7, 1930—1176 SHATTUCK Ave., Berkeley. Grace Helen Ahlin to whom it may concern	Nov. 3, 1930
Nov 6, 1930—1-TN LOTS 2 and 3 Blk D, Hopkins Terrace Map No 3, Berkeley. Alma S and W G Needham to whom it may concern	November 6, 1930
Nov 7, 1930—W SHATTUCK AVE 121-09 ft S of Amador Ave., Berkeley. Grace L Bug to Elitrite Const Co	November 1, 1930
Nov 7, 1930—LOT 19 BLK 6, Thousand Oaks Heights, Berkeley. H B and Gertrude I Gross to whom it may concern	November 4, 1930
Nov 7, 1930—LOT 421, E B and A L Stone Co's Lots, Oakland. Jessie Brown to whom it may concern	November 6, 1930
Nov 6, 1930—SE LAKESHORE Blvd and Trestle Glen Ave, Oakland. Associated Oil Co to W E Lyons.	November 1, 1930
Nov 6, 1930—215 PACIFIC Avenue Piedmont. Wesley W and Elizabeth G Kergan to H G Newman Co et al	November 5, 1930
Nov 5, 1930—PTN LOT 6 & LK 73, map of Southern Addn to Livermore, Livermore. Isobel Rinderneck to whom it may concern	November 3, 1930
Nov 5, 1930—1550 LE VERDA Berkeley. Wm G Donald to Walter Sorensen	October 28, 1930
Nov 5, 1930—PTN LOT 9 BLK G, Revised map of Piedmont Park, Piedmont. Jesse C Barton to J W Scannell	October 30, 1930
Nov 5, 1930—LOTS 77, 78, 79 and 80 Blk 12, map No 4 Regents Park. Wm U and Julia Bowen to Chas Marietti	October 28, 1930
Nov 5, 1930—4272 PIEDMONT AVE Oakland. Weeks Security Corp to The Globe Corp	October 29, 1930
Nov 5, 1930—320 LA SALLE AVE, Piedmont. Grace M Colvin to Cliff Lekins	November 5, 1930
Nov 3, 1930—978 43rd ST, Oakland. Geo and Edith Frommer to Harry Lassen	November 1, 1930
Nov 3, 1930—824 WOODLAND Ave, San Leandro. Flora M and Loring A Bond to Chester A Gossett	November 3, 1930

Nov. 8, 1930—LOT 19 BLK 5, Highland Manor, Oakland. John A and Teresa C Holmes to William Watson	Nov. 6, 1930
Nov 8, 1930—NO. 964 REGAL ROAD Berkeley. Edwin L Snyder to Beckett & Wight	Nov. 3, 1930
Nov. 8, 1930—NO. 4219 DETROIT Ave., Oakland. Marko T and Anna M Tomich to A M Berg	Nov. 7, 1930
Nov. 8, 1930—PTN LOT 17, South Mohrland, Eden Twp. Thomas J and Lillian Gene to whom it may concern	Oct. 31, 1930
Nov. 8, 1930—LOT 15, Hayward Manor, Hayward. John A and Katherine F Casson to C M Russell	Oct. 31, 1930
Nov. 8, 1930—NEAR ENTERPRISE Station 8-4-60, State Highway bet. Dublin and Hayward. Dept. of Public Works, Division of Highways, State of California to Wm E Pink	Nov. 7, 1930
Nov. 8, 1930—NW E-FOURTEENTH St. and 25th Ave., Oakland. John P Beckett to George Prentiss	Nov. 8, 1930
Nov 10, 1930—4815 YGNACIO AVE, Oakland. Walter Pressler to whom it may concern	Nov 8, 1930
Nov 10, 1930—4821 YGNACIO AVE, Oakland. Walter Pressler to whom it may concern	Nov 8, 1930
Nov 10, 1930—LOT 41 BLOCK 3, Thousand Oaks Heights Tract, Berkeley. I E Wing to Armstrong & Gates	November 8, 1930
Nov 10, 1930—SE PIEDMONT AVE and John Street, Oakland. W H Weeks to Melrose Steel Co.	November 5, 1930
Nov 10, 1930—SE PIEDMONT AVE and Echo Ave, Oakland. Weeks Securities Corp to Independent Iron Works	November 1, 1930

LIENS FILED

Alameda County

Recorded	Amount
Nov 5, 1930—PTN LOT 111, Oak Pike Tract, Oakland. Mastercraft Tile & Roofing Co vs C A and Nettie D Rieser, E L Spurr	\$55.20
Nov 7, 1930—84 SAN MATEO STREET, Berkeley. Paul F Nunn vs Fred H and Ynez F Davis	\$233
Nov 7, 1930—LOT 7 BLK 8, Daley Scenic Park, Berkeley. Ariss Knapp Co vs C G and Henry E Tweed, Ethel M Tweed, L J Alexander	\$88.80
Nov 1930—PTN OF THAT CTN 8.175 acre tract of land desc in deed from J S and Lillia Harland to the Boulevard Hotel Co, recorded Jan 15, 1908, in Vol 1436 of Deeds page 114, Oakland. Melrose Lumber & Supply Co, Inc vs Winifred M Combs, T A Loftus	\$149.58
Nov 7, 1930—PTN OF THAT CTN 8.175 acre tract of land desc in deed from J S and Lillia Harland to the Boulevard Hotel Co, recorded Jan 15, 1908, in Vol 1436 of Deeds pp 114, Oakland. Blackman and Anderson vs Winifred M Combs	\$160.80
Nov 7, 1930—LOT 7 BLK 8, Daleys Scenic Park, Berkeley. J E Ames as Ames Planning Mill Co vs C G Tweed and E H Tweed	\$160
Nov 5, 1930—LOTS 3 and 4 ELK C Subdiv of Kindess Tract, Oakland. Sullivan & Sullivan vs John and Mabel Albib	\$159.25
Nov. 8, 1930—PTN OF CERTAIN 8.175 acre Tract of land desc in deed from J. S. and Lillia Harlan to the Boulevard Hotel Co, Recorded Jan. 15, 1909 in Vol 1436 of Deeds, Page 114, Oakland. Melrose Building Materials Co vs W M Combs	\$131.67
Nov. 8, 1930—LOT 334, Union Oak Knoll, Oakland Eureka Mill &	

Member Insurance Brokers' Exchange

FRED H. BOGGS
INSURANCE
490 GEARY STREET

Phone FRanklin 9400

San Francisco

Lumber Co vs W Willcomin and Alfred Peterson.....	\$649.25
Nov. 8, 1930—SW LE ROY AVE and Virginia St., Berkeley. Sheet Metal Service Co. vs Ben and Anna S Pearson; Casebolt Dukin and E Larmer.....	\$66.25
Nov. 10, 1930—PTN LOT 10, map of the land of Brooklyn Land Co., Oakland. F W Parkhurst vs Mabel B and Walter S Johnston.....	\$549.19
Nov. 10, 1930—W FULTON ST 95 ft N of Carlton St., Berkeley. E G Dellinger vs May and F Finigan.....	\$152.57

RELEASE OF LIENS

Alameda County

Recorded	Amount
Nov. 5, 1930—SW FOREST AVE and Piedmont Ave., Berkeley. Stockton Paint Co. as Old Mission Paint Co to Clyde C and Agnes Way and E W Beyerle.....	\$77.77
Nov. 5, 1930—SW LEROY and Virginia Sts., Berkeley. Daggett Insulating Co to C A Kuenzell, Edw C Larmer.....	\$590
Nov. 3, 1930—PTN LOT 111, Oak Pk Tract, Oakland. Harold Palmer to Charles A Reiser, B L Spurr.....	\$78.59
Nov. 8, 1930—NE OAK KNOLL Blvd and Sequoia, Oakland. Zarwell Electrical Co to J A Minnis and Gerald McPherson.....	\$188

BUILDING CONTRACTS

SAN MATEO COUNTY

RESIDENCE	
PART LOT 7 BLK 4, Burlingame Hills. All work for two-story frame and stucco residence. Owner—Thomas E. Davis et al. Architect—George Rossi. Contractor—A. Hedahl, 1224 Broadway, Burlingame. Filed Nov. 7, '30. Dated Nov. 5, '30.	
Sub floor done.....	15%
Roof on.....	15%
Plastered.....	20%
Completed.....	25%
Usual 35 days.....	25%
TOTAL COST, \$12,650	
Bond, \$6325. Sureties, J. L. Devenedetti and George J. Rossi. Limit, 90 working days. Forfeit, \$10. Plans and specifications, filed.	

STORE BLDG.	
PART LOT 9 BLK 139, South San Francisco. All work for reinforced concrete store building with basement. Owner—Andrew Hynding, South San Francisco. Architect—John E. Snyder, 542 Alvarado St., Palo Alto. Contractor—J. O. Snyder, 542 Alvarado St., Palo Alto. Filed Nov. 7, '30. Dated Nov. 7, '30.	
Form steel placed.....	\$1284.25
Concrete poured.....	1284.25
Completed.....	1284.25
Usual 35 days.....	1284.25
TOTAL COST, \$5137.00	
Bond, \$5357. Surety, Fidelity & Deposit Co. Limit, 60 working days. Forfeit, none. Plans and specifications, filed.	

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded	Accepted
Oct. 31, 1930—LOT 20 BLK 94, South San Francisco. South San Francisco Land & Improvement Co to Angelo Zangrande.....	
Oct. 31, 1930—PART LOT 7 BLK 4 Burlingame Hills. C A Melswinkel to whom it may concern.....	October 31, 1930

Oct. 31, 1930—LOT C BLK 4, Central Park. W M Bernard to whom it may concern.....	October 28, 1930
Nov. 1, 1930—SOUTH SAN FRANCISCO. Southern Pacific Co to Granfield, Farrar & Carlin.....	October 24, 1930
Nov. 1, 1930—STATION K-86, Associated Oil Co., Woodside. Associated Oil Co to J C Warrington.....	October 27, 1930
Nov. 1, 1930—RAYSHORE. Southern Pacific Railroad Co to Josiah B Rogers.....	October 28; 1930
Nov. 1, 1930—LOT 77 College Park. Marion Vecchi to Self.....	Oct. 31, 1930
Nov. 3, 1930—PART BLK 31, Boulevard Park. Lena Greco to Antonio Melodia.....	November 1, 1930
Nov. 3, 1930—LOT 1 ELK 9, Woodside Glens. Kathryn Colanion, et al to C F Howard.....	
Nov. 5, 1930—LOT 17 BLK 307, Highlands of Emerald Lake. J C Dolphin et al to whom it may concern.....	Oct. 30, 1930
Nov. 5, 1930—NO. 137 BELLEVUE Ave., San Mateo Park. Thomas A Cavanaugh et al to whom it may concern.....	Oct. 30, 1930
Nov. 5, 1930—LOT 11 BLK H, Hayward Park. George R Benoit to Wallace Waterhouse.....	Oct. 30, 1930
Nov. 6, 1930—LOT 19 BLK 46, Easton Moses Little to whom it may concern.....	Nov. 6, 1930
Nov. 6, 1930—PART LOT 121, West End Homestead. Walter William Warren to whom it may concern.....	Oct. 28, 1930
Nov. 7, 1930—SKYLINE BLVD. State Highway Commission to Carl Lewis.....	Nov. 3, 1930
Nov. 7, 1930—LOT 2 BLK 4, Baywood. Carl W Koenig to whom it may concern.....	Oct. 30, 1930
Nov. 7, 1930—STATE HIGHWAY, bet. Redwood City and Palo Alto. State Highway Commission to Hanson Bros.....	Nov. 8, 1930

LIENS FILED

SAN MATEO COUNTY

Recorded	Amount
Nov. 5, 1930—LOT 1 BLK 1, Duncan Park Julius F Berendsen vs Laverne and Estell Booker.....	\$15
Nov. 5, 1930—LOT 32 BLK 22, Belmonte. Peninsula Hardware Co vs F W Twearinger.....	\$40.43
Nov. 6, 1930—LOT 27 BLK 4, Vista Grande. H H Smith vs Harry McDonald et al.....	\$438.90
Nov. 6, 1930—LOT 33 BLK 22, Belmonte. Concelo Fixture Co vs Frank P O'Brien et al.....	\$35.40
Nov. 6, 1930—PART LOTS 23 AND 24 Blk 18, Baywood. I Sargent vs Neil R Donovan et al.....	\$32.50
Nov. 7, 1930—LOT 33 BLK 29, Belmonte. P Buthmann, \$113.50; M J McDonough, \$153.55 vs Frederick William Swerayer et al.....	

BUILDING PERMITS

PALO ALTO

RESIDENCE, stucco, \$3400; No. 323 Oxford St., Palo Alto; owner, Page & Bell, El Camino Real, Palo Alto	
RESIDENCE, stucco, \$3000; No. 1170 Second St., Palo Alto; owner, T. A. Garcia; contractor, Joe Wesa, 730 College Ave., Palo Alto.	
ADD to rustic residence, \$3600; No. 1061 Fulton St., Palo Alto; owner, C. L. Pratt, Premises; contractor, W. F. Klay, Menlo Oaks Drive, Menlo Park.	
DWELLING, frame and logs, \$2000; No. 1554 Cowper St., Palo Alto; owner, Reta A. Lemos.	

STATION, Class C battery, \$1550; No. 247 Alma St., Palo Alto; owner, W. T. Loftis, Premises; contractor, H. H. Dabinett, 2350 South Court, Palo Alto.	
STORE, Class C, \$6600; No. 2086 El Camino Real, Palo Alto. M C and Matilda Laundson, Premises; contractor, Geo. B. Moore, 531 Stanford Ave., Palo Alto.	

BUILDING PERMITS

SAN JOSE

RESIDENCE, five-room frame, \$1,900; Waco near Newhall; owner and builder, H. Hevrin, 819 Myrtle, San Jose.	
ALTERATIONS to class business building, \$2555; 30 S First Street; owner, De Saisett Est., 243 South Market St., San Jose; contractor, E. J. Shottenhamer, 401 S Market St., San Jose.	

BUILDING CONTRACTS

MARIN COUNTY

ALTERATIONS	
FAIRFAX; alteration of Catholic Church. Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco. Architect—H. A. Minton, Underwood Bldg., San Francisco. Contractor—H. Glynn, premises. Filed Nov. 3, '30. Dated Oct. 28, '30.	
Monthly payments of.....	75%
Usual 35 days.....	25%
TOTAL COST, \$1,910.50	
Bond, \$1910.50. Sureties, The Aetna Casualty & Surety Co. Limit, Nov. 23, 1930. Plans and Spec. filed.	

COMPLETION NOTICES

MARIN COUNTY

Recorded	Accepted
Oct. 31, 1930—SAN ANSELMO. Ida Crokaerts to whom it may concern.....	October 31, 1930
Nov. 5, 1930—SAN ANSELMO. J H McEachern to whom it may concern.....	Nov. 1, 1930

LIENS FILED

MARIN COUNTY

Recorded	Amount
Nov. 5, 1930—SAN ANSELMO. B I Goodheart vs Hillis J Kemp.....	\$125
Nov. 5, 1930—SAN ANSELMO. B I Goodheart vs Hillis J Kemp.....	\$141
Nov. 8, 1930—SAN ANSELMO. Marin Co. Roofing Co vs H J Kemp and wife.....	\$75

RELEASE OF LIENS

MARIN COUNTY

Recorded	Accepted
Nov. 5, 1930—SAN ANSELMO. Jory & Price vs H J Kemp.....	\$300
Nov. 5, 1930—SAN ANSELMO. Edw B Jory et al (Jory & Price) vs H J Kemp.....	\$300
Nov. 3, 1930—SAN ANSELMO. A Nelson et al vs Hillis J Kemp.....	\$86
Nov. 3, 1930—SAN ANSELMO. A Nelson et al vs Hillis J Kemp.....	\$87
Nov. 1, 1930—WOODACRE. Pacific Mill & Cabinet Co vs Tina M Eurd.....	\$158.88
Nov. 5, 1930—SAN ANSELMO. G J Drew (Hess Electric) vs H J Kemp.....	\$109.50
Nov. 5, 1930—SAN ANSELMO. G J Drew et al (Hesse Electric) vs H J Kemp et al.....	\$109.50

BUILDING CONTRACTS**CONTRA COSTA COUNTY****SURFACING**

MARTINEZ. All work for surfacing present road of Mountain Copper Co. from crossing of railroad's tracks at Moccio (Martinez) to railroad's property near Bridge Road.

Owner—Southern Pacific Co., 65 Market St., San Francisco.

Architect—None.

Contractor—Hutchinson Co., 1450 Harrison St., Oakland.

Filed Nov. 3, '30. Dated Oct. 28, '30.
Close of each month..... 90%
Usual 35 days..... 10%

TOTAL COST, \$2000
Bond, \$2000. Surety, United States Guarantee Co. Limit, forfeit, none. Plans and specifications filed.

RESIDENCE

LOTS 1, 2 AND 3 AND N 89 ft. Lot 4
Blk D, Berkeley Woods. All work for residence and garage.

Owner—Hugh T. and Roberta Lloyd Dobbins, Berkeley Woods.

Architect—James H. Mitchell, 369 Pine St., San Francisco.

Contractor—C. H. Bessett Bldg. Co., 666 Mission St., San Francisco.

Filed Nov. 5, '30. Dated Oct. 30, '30.
TOTAL COST, \$67,712
Bond, limit, forfeit, none. Plans and specifications filed.

COMPLETION NOTICES**CONTRA COSTA COUNTY**

Recorded Accepted
Nov. 7, 1930—NEAR MARTINEZ.
Southern Pacific Co. to Pacific Bridge Painting Co. (painting railroad's combination station building).....Oct. 31, 1930

Nov. 7, 1930—ACROSS LOWER part of Suisun Bay. Southern Pacific Co. to The United States Steel Products Co. (Furnish tools, etc. for double track railroad bridge).....Oct. 31, 1930

Nov. 7, 1930—SUISUN BAY Bridge. Southern Pacific Co. to The United States Steel Products Co. (constructing and placing wooden deck on various spans).....Oct. 31, 1930

Nov. 7, 1930—NEAR MARTINEZ. Southern Pacific Co. to O G Ritchie work on Martinez-Benicia Bridge.....Nov. 3, 1930

Nov. 7, 1930—LOT 4 BLK 87, City of Pittsburg. Joseph Shilovitz to Horace J. Sino.....Nov. 1, 1930

Nov. 7, 1930—LOT 10 BLK 103, W Addition No. 1, Pittsburg. Nick A. Chiapero to Vincent G. Sino.....Nov. 5, 1930

Nov. 5, 1930—LOT 10 BLK 95, Town of Antioch. George Z. Smith to George Z. Smith.....Nov. 5, 1930

Nov. 5, 1930—LOT 1 BLK 33, Town of Valona. Angelo Regalia to F. A. Doney.....Nov. 1, 1930

Nov. 5, 1930—E 138.75 ft. of S ½ Lot 7 Blk B, West Pittsburg Tract No. 1. Antonio Puglisi to Antonio Puglisi.....Oct. 25, 1930
Blk 6, Boulevard Gardens. John Cezario to Self.....October 29, 1930

LIENS FILED**CONTRA COSTA COUNTY**

Recorded Amount
Nov. 7, 1930—LOTS 6, 7, 8 AND 9 Blk 1, Subdivision of Blk 1W, Town of Rodeo. Richmond Supply Co. vs Antonio Silva.....\$82
Nov. 3, 1930—LOTS 1, 2 AND 3 BLK 336, Additional Survey, Martinez

Judson - Pacific Co. vs Wallace Snellgrove and J. F. Marino.....\$220

COMPLETION NOTICES**SONOMA COUNTY**

Recorded Accepted
Nov. 8, 1930—ASSOCIATED OIL Co. Distributing Station, Petaluma. Associated Oil Co. to Dyer Constr. Co.....Nov. 3, 1930

Nov. 1, 1930—LOTS 48 AND 70 BLK 5, Bentons Addition to Santa Rosa Harriet J. Shaffer to Hume Bunyan.....Oct. 30, 1930

Nov. 1, 1930—NO. 724 OAK ST., Santa Rosa. C. L. Personett to whom it may concern Nov. 1, 1930

Nov. 3, 1930—LOT 47 BLK 13, Town of Windsor. Adin Arthur Lindsay to whom it may concern.....Nov. 1, 1930

Nov. 5, 1930—LOT 19 BLK R, Del Rio Woods Subd No. 1. Timothy F. and Mary E. Callopy to E. A. Anloff.....Oct. 31, 1930

LIENS FILED**SONOMA COUNTY**

Recorded Amount
Nov. 8, 1930—PART SECS 17-20-21 Tp 10 N R 10 W, Containing 97.82 Acres. Healdsburg Lumber Co. vs H. H. Bridge and Clara Mayrhofer et al.....\$34.44

RELEASE OF LIENS**SONOMA COUNTY**

Recorded Amount
Nov. 7, 1930—ABOUT ¼ MILE S. of Geyserville on Redwood Highway. A. F. Stevens Lumber Co. to J. W. McAllister and William S. Blake.....\$588.76

Nov. 3, 1930—E ½ LOT 11, Ludwigs Villa Farms Tract. L. A. Drake to Jim Montani and L. A. Drake.....\$39.40

COMPLETION NOTICES**SAN JOAQUIN COUNTY**

Recorded Accepted
Nov. 7, 1930—HARDING WAY crossing, Stockton. Southern Pacific Co. to Clark & Henry Const. Co.....November 1, 1930

Nov. 6, 1930—LOT 15 east 20 ft lot 14 blk 2 College Addn, Fresno. A. G. Lampasas to whom it may concern.....November 5, 1930

Nov. 8, 1930—NO. 405-409 E-MAIN St., Stockton. S. H. Kress & Co. to Scott Co.....Nov. 7, 1930

Nov. 10, 1930—UNITARIAN CHURCH Bldg., Stockton. Unitarian Society of Stockton to William J. Scott.....Nov. 2, 1930

Nov. 10, 1930—PARSENGER STATION, Stockton. Southern Pacific Co. to Samuel Olson & Co., Inc. (Pneumatic Tube System).....Nov. 6, 1930

Nov. 8, 1930—W 40 FT. LOT 10 Blk 51, South of Mormon Channel. Star Lumber Co. vs Lawrence Frontella.....\$66.12

LIENS FILED**SAN JOAQUIN COUNTY**

Recorded Amount
Nov. 5, 1930—LOTS 4 and 5 BLK 1. Mikesell Addn, Manteca. Hayward Lbr & Inv Co. vs A. E. Webb.....\$9.95
Nov. 5, 1930—SOUTH 58-89 ACRES N ½ of NW ¼ Sec 18 Twp 1 S Range 7 E. Hayward Lbr & Inv Co. vs Joseph Coniglio.....\$82.97

BUILDING PERMITS**STOCKTON**

ADDITION to dwelling, \$1000; 106 W Pine St.; owner, E. F. Pfeffer, 106 W Pine St., Stockton.

COMPLETION NOTICES**MONTEREY COUNTY**

Recorded Accepted
Nov. 3, 1930—LOTS 18, 19, 22 AND 23 Blk 1, Plat of Boulevard Tract, Monterey. W. D. White to whom it may concern.....October 31, 1930

Nov. 3, 1930—LOT 1 BLK 8, Warden Tract, Monterey. Curt Muller to whom it may concern.....Nov. 3, 1930

Nov. 3, 1930—LOT 21 BLK 26, Spring Second Addition to Salinas City. William J. Hansen to whom it may concern.....Nov. 3, 1930

Nov. 5, 1930—LOT 3 BLK 10, Homestead Addition to Salinas City. Caesar Volpatti to Caesar Volpatti and Joe Bulanti.....Nov. 4, 1930

Nov. 5, 1930—NE LOT 1 BLK 7, Stone's Homestead Addition to Salinas. Adella Porter to Herbert P. Kinzey.....Nov. 4, 1930

Nov. 5, 1930—LOT 50 BLK 201, Monterey Peninsula Country Club Subdivision No. 2. Grace R. Seale to whom it may concern. Nov. 3, 1930

Nov. 5, 1930—NW LOT 27 BLK 7, Withers Addition to Monterey. Ethel J. Stewart to J. W. Merritt.....Nov. 3, 1930

Nov. 7, 1930—LOT 6 BLK 1, Map of Johnson's Addition to Monterey. Osmund Sanchez to G. R. Dean.....Nov. 6, 1930

Nov. 7, 1930—SE ½ LOT 15, All Lot 17 and NW ½ Lot 19 Blk 16 Withers Addition to Monterey. C. A. Hinds to J. C. Anthony.....Nov. 5, 1930

BUILDING PERMITS**SACRAMENTO**

RESIDENCE, 8-room, \$5000; 1932 Bidwell Way; owner, Jas. Edenhofner, 3030 17th St., Sacramento.

RESIDENCE, eight-room, \$7500; 2641 Montgomery Way; owner, H. M. Stafford, 2557 5th Ave.; contractor, N. H. Lund, 3300 Cutler St., Sacramento.

RESIDENCE, 4-room, \$3000; 3340 L St.; owner, Gus Thiery, 505 J St., Sacramento.

STORE, \$4500; 5141 Folsom Blvd.; owner, Robt. Campbell, 5209 Folsom Blvd.; contractor, Jos. Pesce, 5205 Folsom Blvd., Sacramento.

ADDITION, macaroni factory, \$4586; 2316 Y St.; owner, W. Holmes, Capital Natl. Bank Bldg., Sacramento; contractor, Park D. Tattl, 2116 O St., Sacramento.

ADDITION, \$1500; 1714 28th St.; owner, H. Schaefer, 919 K St., Sacramento; contractor, T. S. Downar, 5445 24th and Hagganwood

RESIDENCE, 7-room, \$5000; No. 3009 T St., Sacramento; owner, H. M. Dunkel, 420 Santa Ynez Way, Sacramento.

REPAIRS, general, \$7500; No. 700 L St., Sacramento; owner, Fred C. Stahl, 2239 Castro Way, Sacramento; contractor, C. J. Hopkinson, 1819 28th St., Sacramento.

REPAIRS, \$1500; No. 1536 36th St., Sacramento; owner, C. E. Berg, Premises.

RESIDENCE, 8-room, \$6000; No. 4023 H St., Sacramento; owner and contractor, Henry Schmidt, 4007 H St., Sacramento.

GENERAL repairs, \$3075; No. 806 K St., Sacramento; owner, Western States Life Insurance Co., Mc-

Lean Bldg., Sacramento; contractor, Geo. D. Hudnutt, 1915 S St., Sacramento.

LIENS FILED

SACRAMENTO COUNTY

Recorded Amount
Nov. 7, 1930—N 56 1/2 FT. LOT 1, 1, J, 3rd and 4th Sts., Sacramento.
Harry P Jensen vs Ong Young.....\$64

BUILDING PERMITS

FRESNO

ALTERATIONS and additions, \$1125; 932-52 F St.; owner, Louis Richard, premises; contractor, Potter Roofing Co., 3335 Belmont, Fresno.
DWELLING, \$3000; No. 920 N-Fresno St., Fresno; owner, Dunn & Doss.
EERVICE station, rest room and auto hoist shelter, \$6000; Angus and Tulare Sts., Fresno; owner, General Petroleum Corp., 2150 South Third St., Fresno.
DWELLING and garage, \$3000; No. 420 Cornell Ave., Fresno; owner, J. D. Brase, 2049 Poplar St., Fresno.
DWELLING and garage, \$4000; No. 1595 Poplar Ave., Fresno; owner, J. T. Chism, 1292 Blackstone St., Fresno; contractor, Chas. McKnight & Son, 736 Terrace St., Fresno.

COMPLETION NOTICES

FRESNO COUNTY

Recorded Accepted
Nov. 5, 1930—FIREBAUGH. Firebaugh Grammar School District to Clyde D Jones (building and additions).....Nov. 1, 1930
Nov. 5, 1930—LOTS 27 AND 28 BLK 1, Yale Addition, Fresno. L L Hammond et ux to whom it may concern.....Nov. 5, 1930
Nov. 5, 1930—LOT 20 S 15 ft. Lot 21 Blk 2, Osburn Terrace, Fresno. Taylor-Wheeler, Inc to whom it may concern.....Nov. 3, 1930

For somewhat over a year we have been facing declining activity, already lasting longer than the average major depression, says the monthly bulletin of the La Salle Extension University. Enough time has elapsed to enable the necessary readjustments leading to a recovery to be worked out. Aggressive leadership now can drive away the pessimism which is as much unjustified by the facts of present conditions as was the exuberant optimism of a little over a year ago.

Much is now being done to hasten recovery. Business men are planning their budgets for next year with confidence. Many are taking this opportunity to improve plants and equipment. Bankers are contributing their experience to the wise solution of the complex problems of modern business. The Government is co-operating in helpful ways. Even more remains to be done.

Usually sentiment is least hopeful at the later stages of a decline when the evils of the last boom have already been largely remedied and conditions are right for an upswing to normal. The evidence indicates we are in that situation now. The need, therefore, is for a clear recognition of the facts and for courageous action with leadership which will hasten the return of prosperous conditions once more.

We have experienced the discipline of falling prices and depression. We realize that success and profits come only by conscientious work, careful planning, economical operations, and

correct management policies. The knowledge necessary to restore prosperity is available—not the artificial show of prosperity in 1929, but a planned prosperity with production nicely balanced to normal, sensible consumption requirements.

We have lately had too much enthusiastic pessimism. There is no evidence to indicate that America's period of growth has ended. By aggressive leadership both in eliminating the weaknesses of the past such as overproduction, inflation, speculation rather than analysis and research and in initiating wiser business policies for the future we can quickly pull ourselves out of our difficulties. Normal conditions will return when we bring them back by our own effort's.

Now is the time for action.

A CONSTRUCTIVE PROGRAM OF ACTION FOR BUSINESS LEADERS

1. Plan budgets for next year with hopeful confidence.
2. Push public work and institutional building, large and small, in all communities.
3. Modernize plant, machinery, and equipment now while costs are lower. Be ready for recovery with an efficient organization.
4. Adopt aggressive, effective advertising and sales methods to revive business.
5. Co-operate with the stock and produce exchanges in preventing the disastrous effects of destructive pessimism.
6. Oppose the proposed 25 per cent increase in first-class postal rates which would handicap business communication and restrict direct-mail sales promotion.
7. Work out constructive measures for restoring the purchasing power of agriculture.
8. Use every means to stimulate foreign trade.
9. Increase employment by providing useful work in the home, office and shop.
10. Bankers to help by generous support to worthy enterprises.
11. Submerge demagoguery and petty politics and give real statesmanship a chance.
12. Be optimistic. The time for positive action is here.

ROOF AIRPORTS PLANNED FOR ENGLAND

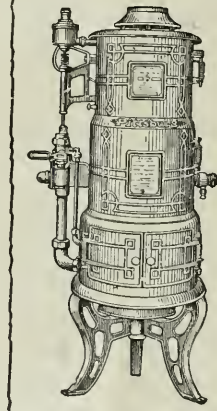
England is planning an extensive system of "roof" airports to be constructed in London, Manchester, Liverpool, Bristol, Leeds, Newcastle and Cardiff. Each of these ports, it is estimated, will cost \$6,500,000.

They will be constructed of steel, and contain six stories in their height of 130 feet. Each roof port will have an area of 1800 feet on each side. Arcades and shops, car parks and other offices on the second, third and fourth floors. The fifth floor will contain offices, reception rooms and hangars and workshops for planes which will land on the roof above.

"The air ministry is emphatic in getting these big buildings up in every city," says A. J. Roach-Cuming, one of the engineers on the job. "They believe it is the only possible solution for the aerionizing of Britain, the present airdromes being too far from the cities which they serve."

Working without a local license, permit or bond, R. H. Evans and A. F. June, both of Oakland, were fined \$25 each when they pleaded guilty to plastering an addition to a house in San Leandro. Complaint was made by R. Nikirk, city building inspector.

A report filed with the Los Angeles County Board of Supervisors by John E. Reckhold, county surveyor, for the fiscal year ended June 30, shows that public improvements, including sanitary sewers, storm drains, water works and lighting systems, in the county handled through his office, completed or under way, involve more than \$10,500,000. The largest project, plans for which are now being prepared, is the proposed drainage system in the South Side Drainage District, between Los Angeles City and the harbor district, estimated to cost about \$8,900,000.



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Published Every Saturday
Thirtieth Year, No. 47



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SAN JOAQUIN POWER ANNOUNCES \$7,392,000 CONST. PROGRAM

With construction scheduled to start next week on new transmission lines in the Fresno district at a cost of approximately \$873,000, the San Joaquin Light and Power Corporation announces plans for the construction of a \$540,000 substation on the site of its new \$4,610,000 steam plant at Herndon.

This new project, together with the power lines, steam plant and \$1,370,000 for new natural gas mains to serve the steam plant and communities north to Merced, bring the expenditures of the Pacific Gas and Electric Company and the San Joaquin Light and Power Corporation for new improvements in the San Joaquin Valley during the next twenty months up to \$7,392,000.

The new substation at Herndon will be equipped to handle voltages of both 110,000 and 220,000 out of the 70,000 horsepower steam-power generating plant. Harold K. Fox, chief construction engineer of the San Joaquin Light and Power Corporation, will have charge of the work.

The transmission line improvements include a high-power transmission line between the steam plant and Belota, a few miles east of Stockton, where connections will be made with a Pacific Gas and Electric line now under construction between the Salt Springs project on the Mokelumne River and Newark, near the coast.

This new line will make possible the exchange of power between the San Joaquin and Pacific Gas and Electric generating plants.

Additional lines will extend southward via Ashlan and Sanger substations to Corcoran substation. The line will consist of a 220,000-volt circuit, 60 miles in length, and will be strung on towers of the present line between Wilson substation, near Merced, and the Prughton substation, near Sacramento.

The present line between the Wilson substation and the Ashlan substation will be increased from 110,000 volts to 220,000 volts, making a continuous 220,000-volt tie line between the new steam plant and the Pacific Gas and Electric system. A second circuit to operate at 110,000 volts will be added to the existing towers between Herndon and Ashlan, and from Ashlan substation to Sanger, a distance of 14 miles. A third circuit is to be added to the existing 43 miles of towers between Sanger and Corcoran greatly increasing the capacity of the feeders. This project, together with necessary substation equipment, will cost \$293,000.

Dimensions, load data and list prices of New Departure ball bearing are given in a 62-page data book published by the New Departure Mfg. Co., Bristol, Conn. A feature of the bulletin is a convenient thumb index.

Engineer's Permit Is Not a License To Practice Architecture

Recently the California State Board of Architectural Examiners received a letter from a Los Angeles architect saying he had heard rumors that structural design was to be eliminated from the written examinations given by the board of applicants for architects licenses; also that several engineers with whom he had talked, having been granted state licenses as civil engineers, were of the opinion that they were structural engineers and as such had opened offices with the expectation of designing buildings. They were of the opinion, the letter stated, that being licensed engineers they were privileged to practice architecture under the title of "structural engineer."

Such ideas are not only erroneous, according to A. M. Edelman, secretary of the State Board of Architectural Examiners (Southern District), but it is the intention of the board to take action against any engineer attempting to practice architecture without an architect's license. Mr. Edelman made the following emphatic statement regarding the matter.

"Relative to the elimination from the written examination for applicants of 'structural design and strength of materials', please be advised that the third day of the written examination is devoted to these subjects, and there never was any desire or consideration on the part of the State Board of Architectural Examiners to eliminate them from their examination. On the contrary, strict observation is made to the markings of the applicant's qualifications on those subjects.

"Regarding the eligibility of civil engineers to practice architecture, please be advised that where a person has been licensed as a civil engineer, he is not entitled to practice architecture under the provisions of the State Act Regulating the Practice of Architecture, or of the State Act Regulating the Practice of Civil Engineering, and any one doing so, is subject to the penalties prescribed under the Architect's Act if found guilty.

"It is the intention of the State Board of Architectural Examiners to bring action against all persons who are practicing without a license, or who are putting out any sign, card or other device which might indicate to the public that they are qualified to practice architecture under a civil engineer's license."

Announcement is made of a proposed highway between the Mexican border and Ensenada at a cost of \$1,000,000 by capitalists interested in the promotion of a new hotel at the Mexican seaport. The syndicate financing the hotel is said to be headed by Joseph Mesmer of Los Angeles. The highway will probably be built under some arrangement with the government of Lower California.

GENERAL HELD FOR DAMAGES CAUSED BY THE SUB-CONTRACTOR

"A" contracted with "B" to put a refrigerating system in A's warehouse. B subcontracted the work to C, who exercised an independent employment. The court recently held that B, by force of the contract with A, is liable to A for damages resulting to A for the negligence of C in doing the work.

In the case of H. W. Van Slyke Warehouse Co. v. Vilter Mfg. Co., Sept., 1930, 58 W. 2d 471, Wash., the Vilter Co. had contracted to place a refrigerating system in the Van Slyke Warehouse Company's building at Seattle. The pipes used in the system had to be welded together with an oxy-acetylene torch. The Vilter Co. subcontracted the work to F. A. Suren & C. I. Drew, partners, who attempted welding a joint of pipe together so close to a wooden wall that the building caught fire and was badly damaged. The Vilter Co. claimed that Suren & Drew were independent contractors and therefore only Suren and Drew could be liable.

The Supreme Court said: "Where work is inherently or intrinsically dangerous in itself and will necessarily or probably result in injury to third persons, unless measures are adopted by which such consequences may be prevented a party will not be permitted to evade responsibility by placing an independent contractor in charge."

PLASTERERS MEET IS SET FOR FRESNO

The Executive Board of the California State Conference of Master Plasterers' Associations in an Executive Board meeting at Fresno last week, voted to hold the Ninth Annual Convention in that city on Feb. 12, 13 and 14. In the past, the conventions have been held on Monday, Tuesday and Wednesday, but the ninth annual gathering will be held on Thursday, Friday and Saturday. Committees are already busy making arrangements for the Convention.

Joseph E. Young, President of the Conference, presided at the Executive Board meeting and other representatives were: M. E. Summers, First Vice-President, Fresno; George Padgrift, Los Angeles; Lew Hughes, Pasadena; Sydney James, Southwest Chapter; Frank Clausen, Oakland; Fred Young, Los Angeles; W. A. Keen, Glendale; N. L. MacKenzie, Fresno; S. L. Ford, Long Beach; L. Ludlow, Santa Monica; W. B. Scollan, Sacramento; D. R. Wadle, Secretary, Los Angeles.

Proper selection of electrodes for various types of welding is facilitated by the information contained in a recent bulletin GEC-93 issued by the General Electric Co., Schenectady, New York.

BASIC PRINCIPLES OF CONCRETE MAKING COORDINATED

By JOSEPH A. KITTS
Consulting Concrete Technologist, San Francisco

1. ABSOLUTE VOLUME THE BASIC MEASURE OF INGREDIENTS.

INTRODUCTION

The purpose of this series of articles is to present the first coordination of the various fundamental principles of concrete mixtures and technology of production discovered by Thacher, Feret, Fuller, Abrams, Talbot, the writer, and other past and contemporary workers in concrete research.

Determination of the basic principles of concrete mixtures has been a very abstruse subject of research involving the expenditure of many millions of dollars and resulting in many competitive theories, and a dearth of agreement among concrete specialists. Today, withal, the lay engineer, and contractor, is lost between impractical theory and inadequate practice. Today's most troublesome construction problem is how to make good concrete.

Modern progress has not been made in the study of concrete mixtures and the explanation is that modern thought has not been applied to it. Concrete is an ancient material and a heritage of ancient ideas surrounds it. This heritage has reacted to prevent modern interpretation and coordination of the fundamental principles developed by the many workers in modern concrete research.

Concrete, if made honestly and understandingly, is a durable material peculiarly suitable in numerous qualities for vast modern requirements and uses. However, there have been and continue to be serious failures in the use of concrete, failures in strength, impermeability, durability, resistance to wear, ice, salt water, etc. Concrete failures are often due to unscrupulous omission of cement and to poor design and workmanship. On the other hand failures often occur, despite the most scrupulous care, because the principles of concrete making are not wholly understood. The fundamental principles of mixtures are not fully established and generally accepted matters of current knowledge. The quest of fundamental principles of mixtures has been and continues to be a most abstruse subject of research and there are almost as many controversial theories as there are specialists in concrete making.

It is proposed, herein, to harmonize and coordinate those theories which have proven to be fundamental, and with due credit to the author, when known. This coordination presents the following major items of new progress:

(1) Development of a coordinated, systematized and expedient field and laboratory procedure of pretesting materials and concrete;

(2) THE USE, PRACTICALLY AS WELL AS TECHNICALLY, OF ABSOLUTE VOLUME AS THE BASIC MEASURE OF PROPORTIONS (the most basic of all principles of proportioning);

(3) Measurement of absolute volumes of materials by weighing, by loose-moist volume, or by inundation;

(4) Discovery of the LAW OF THE OPTIMUM GRADING MODULUS for any maximum size of aggregate and cement content;

(5) Elaboration of the Fuller, Talbot and other grading equations for aggregate mixtures;

(6) Development of an expedient ALGEBRAIC METHOD of determining proportions of three, four, five or more sizes of aggregates for grading to a given graphical or mathematical curve;

(7) Discovery of the LAW OF THE OPTIMUM CEMENT CONTENT for any maximum size of aggregate and slump and strength of concrete;

(8) Elaboration of the Abrams law of the water-cement ratio for any strength;

(9) Elaboration of the Thacher law of the sand-cement ratio for any strength;

(10) Appreciation of the Voids and Density theories of proportioning;

(11) Discovery of the LAW OF THE OPTIMUM SLUMP or flow (workability) for any maximum size of aggregate;

(12) Elaboration of the Feret theory into the law of yield of combinations;

(13) Development of the physico-mathematics of materials and mixtures, empirical equations, and a complete calculation method of proportioning;

(14) Coordination of these laws and developments for practical use in preliminary, routine, and research tests and for manufacturing control of production; and,

(15) Specifications providing for technological control of production to meet the requirements of modern engineering construction and of manufacture of concrete at commercial plants for proportioning, mixing and delivery.

While an understanding of the principles of concrete mixtures requires an appreciation of the many physical conditions which affect the various characteristics of the concrete, the physics and mathematics involved are elementary and require only a little study to understand and employ. With such an understanding the practical application resolves into a very simple and expedient technological process.

This first article will treat particularly of the absolute volume as the basic measure of ingredients, its importance as a basis of coordination of principles of mixtures, and the history of concrete and of concrete research in relation thereto.

ABSOLUTE VOLUME THE BASIC MEASURE OF INGREDIENTS

Lack of agreement and harmony of thought regarding the principles of concrete mixtures has been largely due to the maze of contradictory data resulting from use of the ancient and indefinite basis of measure of ingredients in concrete—"bulk volume," including the variable proportion of voids or air space between particles.

BULK VOLUME MEASURES

The ancient and prevailing measure of aggregates in concrete has been and remains, even at this scientific age, the "loose-moist bulk volume," a unit measure of which varies from 0.40 to 0.80 in absolute volume of rock solids and, likewise, from 0.60 to 0.20 in voids of air space.

"Loose-dry bulk volume" has been used extensively as the basis of measure in laboratory and research tests and, varies from 0.45 to 0.55 in absolute volume of solids.

The standard measure of aggregates, adopted about 1921 by the American Society for Testing Materials, the Portland Cement Association, and other technical agencies, is the "dry-rodded bulk volume," which varies from 0.50 to 0.90 in absolute volume of solids.

A method of measuring sand by inundation with water was devised by Bertin prior to 1922 and has been

used with some favor. "Inundated bulk volume" varies from 0.45 to 0.85 in absolute volume of solids.

The "density," or absolute volume of solids in a unit bulk measure, varies with the degree of compacting, shape of particles, moisture content and grading of the aggregate, from 0.40 to 0.90. Thus, measurement of aggregates by bulk volume is similar in results to measuring for a pane of glass with an India rubber tape. The effects of its use in concrete research have been erroneous results and conclusions and the consequent failure of an enormous expenditure of labor and money in concrete research to develop a knowledge of concrete mixtures adequate for modern requirements.

WEIGHT MEASURES

The acme of accuracy is obtained by weighing, with appreciation of the relation of the absolute volume of the material to its specific gravity and weight. The absolute volumes in unit weights vary inversely as the specific gravities of the various materials, 1- to 3+. Weighing is the best method of measure but, because of varying specific gravity, not a fundamental basis of measure of ingredients in concrete.

ABSOLUTE VOLUME

"Absolute volume" is used, herein, in the practical sense (not the precise) to mean the volume displaced by the aggregate particles. It is the total volume within the surfaces of the particles in the cases of solids, aggregates, cement, etc., and the volume at prevailing temperatures in the case of water and other liquid admixture. It is generally called "apparent volume" by concrete physicists.

The actual or absolute volumes of aggregates, cement and water are the basic physical measures of the proportions of concrete because these ingredients fit together, physically, as absolute volumes, and in no other way. In other words, the volume of concrete obtained by a mixture of ingredients is equal to the sum of the absolute volumes of aggregates, cement, water, and admixtures, with a plus correction for entrapped air and a minus correction for the volume of cement going into solution with water.

In order to appreciate the importance of the absolute volume as the basic measure of proportions in concrete research and in the manufacture of concrete of quality with economy, it seems important to review the history of concrete, concrete research and the present status of the current knowledge of concrete mixtures with relation to the needs of the day.

HISTORICAL

Hydraulic lime and natural cement mortars and concretes have been used under the ages, 10,000 years or more perhaps. The Egyptians, 4000 years ago, used a natural cement which set under water. A natural cement concrete was made by the Carthaginians and portions of an aqueduct, built by them some 2300 years ago, are still standing. The Romans, about the same time, used puzzolan cement concrete of such durability that relics of sewers, aqueducts, water mains, foundations, buildings and roads may be seen today. The dome of the

Pantheon, 142 feet in diameter, built at the beginning of the Christian era, is concrete of such good quality that it has withstood the various destructive forces of 18 centuries and is sound today. That ancient concrete structures were not always durable is evidenced by early repairs and replacements thereto, by complete obliteration of parts, and it is likely that disintegration in a decade or less was sometimes the experience with ancient as with modern concrete.

The first concrete was probably made by adding stone fragments to hydraulic lime or natural cement mortar used for plaster or stone masonry. We know that very remotely in the past the common formula of proportions was one basket of cementing material to two of sand to four of rock, or 1:2:4 by loose-bulk volume, including the variable proportions of voids between particles of the various ingredients. This crude and indefinite basis of measurement and arbitrary ratio of ingredients prevails today and is used on a greater volume of concrete than all the various theoretical methods of proportioning combined, but, it has been adequate only under favorable circumstances, generally matters of chance rather than foresight.

"Portland" cement, now the most important of our cementing materials, was invented by Joseph Aspdin, of Leeds, England, in 1824, and he established a manufacturing plant at Wakefield in 1825. The early manufacture was by "rule-of-thumb" methods, and of variable quality, but many individuals have, from time to time, improved the chemical, physical and mechanical processes so that, today, the manufacture of Portland cement is a highly developed technological process insuring uniform quality. While the ingredients of portland cement are few in number, eighty separate operations under close chemical and technological control are employed to insure uniform standard quality of the finished product. Not more than 2 per cent of portland cement, as manufactured, is below standard quality.

Contrast this modern development with that of the manufacture of the ancient material, concrete. Seventy-five per cent of concrete is of inferior quality; 40% because of bad proportioning and lack of technological control of production; 20% because of poor workmanship in mixing, placing, and curing; 10% because of soft, friable aggregates, silt, organic matter, and other deleterious substances; and 5% because of poor and deteriorated cement. The general practice of making concrete is still in the arbitrary-ratio, bulk-volume, and rule-of-thumb-control stage of development—ancient, not modern.

The invention of metal bar reinforcing of concrete to resist tensile stresses is indicated by patents in 1854 and subsequently. Following the invention by Ransome in 1855 of a rotary kiln for burning cement, the cost of cement was rapidly reduced; reinforced concrete construction likewise rapidly increased; and, while the prior formulas of design were largely empirical by 1905 the reinforcing of concrete for structural uses was a highly developed science. Modern thought has been applied to the determination of the principles of the modern idea of reinforcing concrete, but not to the principles of mixture of that ancient material, concrete itself.

Anyone can make concrete of a sort by mixing rock particles, cement and water, and, as late as 1900, when reinforced concrete was coming into

strong favor as a structural material, concrete engineers recommended it as an economical structural material "because the concrete can be made by common labor." It should be observed that the making of this ancient material, familiar to builders from generation to generation down the ages, was not considered to be a technological matter of making volumes of ingredients, etc. Making of portland cement was early considered to be a process of exact chemical and technological control, but making of concrete, quite as complex a material, is looked upon as a manufacturing process by very few engineers and handled as such by a very small proportion of those. This peculiar influence of the ancient fact of concrete has likewise affected concrete research, as will be explained.

Prior to the advent of "reinforced" concrete, the prevailing proportions of plain concrete were cement: 2 sand; 4 rock, by loose bulk volume, including the variable air space between particles. The somewhat limited number of tests of this concrete indicated it to have a compressive strength of 2000 lbs. per sq. in. at an age of 28 days (or one month) and this was adopted generally as the basis of design of reinforced concrete. In accordance with the ancient idea that concrete could be made with common labor the concrete part of reinforced concrete structures continued to be made without technological control, with increasing number of structural failures as the volume of reinforced concrete construction increased, failures often attended by loss of many lives and great financial loss. More comprehensive tests of this 1:2:4 concrete showed it to have strength varying from 500 to 5000 lbs. per sq. in. and more commonly from 500 to 1500. This situation gave an impetus to concrete research, old theories were revived, and new theories of proportioning have been, and continue to be, evolved and discarded down to this day.

During the past thirty-five years some millions of dollars have been spent, by the Portland Cement Association and others, in research to determine the principles of mixtures, and we have been groping in an opaque fog of contradictory data and competitive individual theories with the result that there is, today, no generally accepted, nor complete, nor adequate, theory of proportioning as a matter of current knowledge, and the lay engineer, and the builder, is skeptical of all theories of proportioning and production control—excepting his own. Concrete remains an "unreliable material," as characterized by Dr. Geo. F. Swain in his "Steel for Strength and Security," with high justification under the prevailing standards of production. But, concrete serves a vast modern requirement when made with luck or intelligently, and cannot be dismissed as Dr. Swain suggests.

The failure of this enormous expenditure in concrete research to develop a complete technology is due primarily to the power of ancient conceptions of concrete proportions and basis of measure of proportions to exclude modern thought of the physics involved, of the absolute volume as the rudimentary basis of measure. The rudimentary physics of measure, of the materials, the fundamental basis of measure of proportions, has escaped the otherwise keen insight of famous engineers and physicists almost without exception. Instead of using a definite basis of measure, absolute volume, in research and practice, a variable basis of measure, loose-moist

bulk volume, loose-dry bulk volume, dry-rodded bulk volume, or weight, has been used. The absolute volume in a given bulk volume varies from 0.4 to 0.9; the absolute volume in a given weight varies inversely with the specific gravity (1.0 to 3.0+); and the standard measure of aggregates, today, the dry-rodded volume, varies from 0.5 to 0.9 in absolute volume. This error of 10% to 50% in the measure overshadows the results of research tests, gives contradictory results, and has often led to conclusions contrary to the fundamental facts.

Another cause of the failure of concrete research has been the attempt to find some simple formula such as the ancient 1:2:4 proportion, and every individual, almost without exception, who has discovered a fundamental fact of mixtures, has advanced his discovery as the correct and only principle of proportioning to the exclusion of all others. The result is that many fundamental principles of mixtures have been discovered and erroneously discarded instead of co-ordinated as they would have been if modern rather than ancient thought had prevailed.

Feret, prior to 1905, used absolute volume in his tests but appears to have failed to appreciate it as the practical basis of proportions as well as the scientific. He did, however, advance the theory that the yield of combinations was the sum of the absolute volumes of ingredients and air voids. Messrs. Talbot, Richart, and Gonservan used the absolute volume as the basis of measure in research tests prior to 1923 but evolved no practical application and did not advance it as the fundamental basis of measure of ingredients.

The hundreds of thousands of tests of past research has accomplished more than is indicated on the surface, due to old facts having been discarded for new ones, instead of co-ordinating them. Repetition and observation of predominating results have indicated the principle of the cement content employed in the simple arbitrary ratios and have indicated the principles underlying the following theories:

1. The various voids theories of Moyer and others;
2. The cement content theories of Henby and Kilts;
3. The sand-cement ratio theory of Thacher;
4. The density theories of Feret, Talbot and others;
5. The grading theories of Fuller, Talbot, Graf and others;
6. The preliminary test theory of Feret;

7. Abrams' theory of the fineness modulus and water-cement ratio; and, 8. The McMillan theory of the water-cement ratio and trial methods.

All of these theories have elements of fact but the older ones have been found wanting and discarded, heretofore, instead of co-ordinated with the new, due to the ancient idea that there was a simple formula of proportions. Concrete is a complex material in physical structures and variety of constituents and none of these simple theories are complete and adequate. There are a number of interrelated fundamentals in these various theories and the writer, through unusual opportunity, has co-ordinated them. Much of this had been accomplished by 1925.

About 1925, commercial central proportioning and mixing plants began to be built; about 1927, the transit mixer was invented; and, today, there are some hundreds of commercial concrete factories in the various cities

throughout the United States, many of them with the acme of modern equipment; and, they are in grave difficulties because of the many theories of proportioning demanded by the engineers for their customers, because of lack of agreement among concrete authorities, because they are compelled to make concrete to inadequate specifications with unsightly and poor quality of results which are the business, and because of lack of a technological skill in concrete production.

Current specifications for concrete favor the unscrupulous contractor who steals cement, because they are not based on an appreciation that making concrete is a technological process and do not provide for technological control. In lieu of technological control, employing a skill based on a co-ordination of current knowledge of the principles of concrete mixtures, 25% to 50% more cement is specified than necessary under such skill of control, and generally without avail.

Concrete of varying and often inadequate quality is being made, under these conditions, at an excess cost of \$0.15 to \$3.00 per cubic yard over that of required and uniform quality possible under the co-ordination of processes to be presented in this paper. The economic loss probably exceeds \$100,000,000 per annum, partly due to inefficient use of cement and partly to the use of 2000-lb. concrete instead of the more efficient basis of structural design, 3000-4000-lb. concrete.

The Portland Cement Association stopped short of the solution of the problem involved and the correction of this situation, and is now going backward from a partial attainment of technological control to approximate water-cement ratio and trial and guess methods, receding from an accomplishment which needed, for complete success, only a little co-ordination of their great work with that of others in concrete research, and an appreciation of the absolute volume as the basic measure of proportions. There is no absolute water-cement-ratio-strength law; the water-cement ratio is not complete in itself as a formula of mixtures; there is no simple formula of making permanent quality concrete, precluding technological control, any more than there is such a formula for the manufacture of cement or any other manufactured compound. More scientific knowledge of concrete mixtures is needed, not less, and the demand for cement and concrete depends upon the ratio of its economic return to its cost.

The status of the current knowledge of concrete mixtures is indicated by the standard measure of aggregates, the "dry-rodded" bulk volume—ancient, not modern. The result is that 75 per cent of all concrete made today is inferior in quality for the cement content and cost. Despite well intentioned and scrupulous engineering and constructional care, a great dam disintegrates, a building falls, a concrete wharf disintegrates, a great bridge is dangerously honeycombed with rock pockets, the concrete of a flume is porous, a pavement breaks up, etc., etc. The making of concrete is a matter of friction on the job and of litigation afterward because of the lack of current knowledge of the fundamentals of concrete mixtures. The principle cause of this situation is the past lack of appreciation of the first law of mixtures:

The basic measure of ingredients of a concrete mixture is the absolute volume.
This definite basis of proportions

makes it possible to co-ordinate the fundamental facts of the various theories of mixtures. The following articles will continue with the co-ordination of basic principles of concrete making.

J. Y. Leveque Heads

New Construction Firm

Formation of the Pacific Coast Foundation Company, Inc., under the sponsorship of San Francisco capitalists, with headquarters at 53 Sutter Street, is announced by J. Y. Leveque, executive vice-president of the company.

The organization and personnel of the company is such as to enable it to design and construct bridges, tunnels, caissons, subaqueous construction and hydraulic development.

Mr. Leveque, director and executive vice-president, has had years of experience as an executive.

Mr. D. E. Root, director and vice-president is in charge of construction. Mr. Root has been engaged in engineering construction for many years and has been in charge of major projects such as the Oakland-Alameda Tube.

The new company has been fortunate in securing the services of Francis Betts Smith as its consulting engineer. Mr. Smith has a wide experience in Pacific Coast construction activities and is recognized as an authority on foundations and subaqueous construction.

Mr. Sherman W. Gibbs, long associated with Mr. Smith, will act in a consulting capacity for the new organization.

Branch offices and representatives of the Pacific Coast Foundation Company, Inc., are located in Los Angeles, Portland and Seattle.

ASSOCIATION OPENS OFFICES

Building Industries Association, recently organized group to stabilize credits and eliminate unscrupulous contractors, has opened permanent offices at 302-303 Commercial Building, San Jose, with L. C. Bossi, secretary-manager of the association in charge. The association is now making preparations to offer complete specialized credit service for members of the building industry. This includes general contractors, all types of sub-contractors, material dealers, lumber dealers and loaning agencies, such as banks, building and loan associations and private individuals making building loans.

FRESNO'S PROPOSAL TO BAR OUTSIDE LABOR ABANDONED

An ordinance which would bar laborers and employees, not citizens of Fresno County, from working on municipal projects was submitted to the Fresno city commissioners for discussion by Commissioner of Public Works C. C. Van Valkenburgh, Jr. It was withdrawn when the question of constitutionality arose.

Under the terms of Van Valkenburgh's proposal any contractor employing any laborer or employee who was not a qualified citizen of Fresno County would be subject to a fine of \$10 per man for each day of employment that the employee worked.

Finance Commissioner Wm. Giass said he believed such an ordinance probably would be unconstitutional because the constitutional guarantee that the rights of any citizen of this country could not be abridged by any state or local laws or ordinances and that the privilege of any citizen was a right to obtain labor.

SPECIFICATIONS HELD TO BE NON-AMBIGUOUS

Obviously, a contractor cannot recover payment on an ambiguous contract. It is well settled that contract or specifications are invalid if the same are ambiguous. On the other hand, all that is required to be assured, in order that the contract is valid and enforceable is that the quality of work can be determined by reading the specifications, says The Contractor.

In Rice v. Hanrahan Co., 285 Pac. 414, a city and a contractor entered into a contract for street construction work. The specifications for concrete pavements called for one part of Portland cement, two parts of sand and four parts of broken rock or stone by measure, with the proviso that the proportions might be changed by the contractor whenever the voids in the materials used were not filled by use of the ingredients in the specified proportions. It was also stated that a cubic yard of concrete in place should contain not less than six sacks of cement. The specifications also provided:

"The cement used must be Portland cement meeting the requirements and tests of the standard specifications for Portland cement adopted by the American Society of Testing Materials."

In holding the contract valid, the court said:

"It thus appears that the contractor is required to furnish materials definitely described and to mix them ordinarily in the fixed proportions with a view to having a serviceable pavement with all voids filled. It was recognized, however, that occasionally, in order to fill all voids, it might be necessary to vary somewhat the proportions of sand and rock so as to procure the right density and make a durable pavement. The contractor has no discretion to depart from the specifications determining the condition and quality of the materials, and since the purpose is to assure, thru intelligent exercise of discretion, an admixture making a pavement free of the voids which are apt to occur in any such work because of occasional variation in uniformity of one or another of the ingredients, there is not that vice in the specifications which the law condemns. . . . If the engineer may satisfy himself by tests 'made by some reliable chemist,' and those tests are 'to conform to specifications required' in the one case by the American Association of Civil Engineers and in the other by the American Society of Testing Materials, it is fair to conclude that 'reliable chemists,' in general, as well as engineers and contractors, are thoroughly familiar with the specifications intended."

BID OR BOND UNSIGNED TO BE REJECTED

Where a bid submitted to Los Angeles county is not signed, or where a surety bond is not signed by any of the necessary signatories, in the future the Los Angeles County Board of Supervisors will exercise its right to reject the bid by reason of such defect, according to an announcement by Miss Mame E. Bently, clerk of the board. Heretofore the board has granted to bidders the privilege of correcting the mistake or omission at the meeting in the presence of other bidders who have always been given the opportunity to protest. Numerous instances of confusion have resulted, hence the new order, which Miss Bently states will be rigidly observed in the future.

THE OBSERVER

What He Hears and Sees on His Rounds

Terming his genius the well-spring of architectural beauty in modern cities, the Society of Arts and Sciences announces award of its gold medal to Cass Gilbert for his masterpiece, the Woolworth building.

Burt E. Edwards, general manager of the Los Angeles harbor, has received word from Washington, D. C., that an initial appropriation for starting work on the \$7,000,000 breakwater extension would be made at the next session of congress.

San Francisco Board of Supervisors has voted to call a special election in January to vote bonds of \$2,500,000 to finance miscellaneous improvements to relieve unemployment conditions. The improvements will comprise street work, park and playground development.

Announcing that the General Motors Corporation has maintained salaries and wages, President Alfred P. Sloan, Jr., declared that a reduction in the wage scale would not only delay the return of more normal times but unnecessarily limit the future prosperity of the nation.

City of Seattle, on recommendation of Mayor Edwards, has authorized \$2,000,000 worth of construction to relieve the unemployed. The city council has agreed to cut as much "red tape" as possible to permit the work to go ahead in the immediate future.

At the annual convention of the California Retail Lumbermen's Assn. held in Pasadena, early this month, credit conditions and proposed legislation were given much consideration along with trade practices. Wise restriction of credits and curtailment of installment selling were declared essential to better business. Proper use of credit was held to be the guarantee of business progress. Over-extension of credit was seen as the bane of the building industry.

The Department of Architectural Engineering, Washington State College, is conducting one of the most constructive bits of publicity ever instituted in the Pacific Northwest on behalf of the architectural profession. Stanley A. Smith of this department is conducting over radio station KWSC every Wednesday night at 7:30 a radio program entitled: "King's Castle," which consists of a discussion by newlyweds over a proposed "dream house." Each week the newlyweds discuss a given step toward the realization of their dream of a home of their own.

The whole plan is to expose the fallacy of building a home without retaining a competent architect.

Co-operation on a program of studying the problems common to both the architect and contractor will be undertaken by the Permanent Joint Conference Committee composed of the Cincinnati Chapter of the American Institute of Architects and Allied Construction Industries of Cincinnati. It is believed that through these co-operative efforts many of the difficulties which have beset members of

both these professions will be solved and misunderstandings cleared up. Mr. Gustav W. Drach of Gustav W. Drach, Inc. is permanent chairman of the permanent committee and Mr. J. A. Higgins, general manager of Allied Construction Industries, is secretary.

The City of Portland, Ore., is violating its own building code. Fifteen rooms on the fourth floor of the city hall, on which floor are housed many city employees, do not conform to the requirements of the building code. The deficiency ranges from 5 square feet to 48 square feet. One room has no outside ventilation and is a 100 per cent violation of the code.

These are some of the facts brought out in a report by Ben Smith, city plan examiner, to Commissioner Barbur of the department of public works.

The conditions for maintenance of good health are bad, states a report from Dr. John G. Abele, who says that all bureaus of the department of public works are found to be crowded and in some instances very poorly ventilated, and that the poor ventilation and the crowded conditions tend to the spread of colds and other communicable diseases.

What is probably a new record for bond issues approved on a single day was set November 4 when loans totaling at least \$408,544,000 for public improvements of various kinds were approved by voters throughout the country.

In reporting the total "The Bond Buyer," financial publication, says that the volume may be even larger as returns from referenda covering proposals for an additional \$25,000,000 have not yet been announced.

Only a comparatively small number of bond issues were defeated in the November elections, the compilation shows. Out of a total of \$487,935,000 in bond issues submitted for action by voters, only \$67,550,000 were rejected against the \$408,544,000 approved, with only \$25,000,000 to be heard from. Results of the North Carolina vote on a \$2,000,000 bond issue will not be known until next month. Balance covers many small proposed issues.

The Bond Buyer says the total approved probably is the largest authorized in a November election in this country, when the largest portion of the annual proposals is submitted. The total compared with \$345,933,000 in November, 1928, the previous high of which there is any record. In that year \$288,833,000 in bond issues were rejected.

The increase is attributed principally to the submission of three bond issues aggregating \$230,000,000 alone by the states of Louisiana, New Jersey and New York.

An interest-free loan of \$50,000 has been offered to the city of Hagerstown, Md., for the expansion of public works to relieve unemployment by the Pangborn Corp. of that city. The loan is conditioned upon the raising of an additional sum of at least \$200,000 to be supplied by other private interests under the same conditions.

TRADE NOTES

Wm. Burhans has purchased the Dos Palos Plumbing & Electric Shop from John Onst at Los Banos.

The Toluca Construction Company is opening an office at 4525 Forman Ave., North Hollywood, Calif., and desires manufacturers' samples and catalogs to complete A-I-A file.

Burdett Green has been appointed secretary-manager of the American Walnut Manufacturers' Association, succeeding George N. Lamb, who resigned to become general sales manager of the Flexwood Company.

Plant of the Santa Cruz Portland Cement Company at Davenport, Santa Cruz County, will commence operations on the five-day week basis today. It is announced by Fred Davis, plant superintendent. Lime kilns will not be affected under the new regulation, Davis declared.

Burlingame Hardware Company, 1326 Broadway, Burlingame, announces the change of the firm name to Broadway Hardware Company. L. D. Sanderson, who for the past five years was associated in a co-partner plan with W. A. Heiman, in the Burlingame Hardware Company, will operate the Broadway store independently.

An extra dividend payment of 50 cents a share on the common stock was declared by the U. S. Gypsum Company Nov. 12, payable December 31 to stock holders of record December 15. The regular dividends also declared are 40 cents on the common and \$1.75 on the preferred stock.

C. W. Leihy, for the past two years with the Seattle offices of the General Electric Co., has resigned his position to accept the post of engineering editor of Electrical West, San Francisco publication of the McGraw-Hill Co. Leihy is a graduate of Oregon State College and spent two years in the designing, engineering and commercial sections of the General Electric Company at Schenectady before going to Seattle.

Hallenscheid & McDonald, San Francisco and Los Angeles, distributors of bathroom fixtures and other products, has opened a branch at 3125 Western Ave., Seattle. Charles W. Morse, formerly with the San Francisco office, is manager of the Seattle branch, which will have the territory of Washington, Oregon and British Columbia.

Royalite is the name of a new product of the United States Rubber Company which has been developed for use as a covering for floors and walls and as an interior trim. Royalite is produced by the General Products Department, and will be marketed through the Flooring Division. While Royalite will be used extensively as a flooring material, its usefulness is much broader, in that it can be used on walls as effectively as on floors.

Howard G. Bissell, architect, secretary of the Stockton City Planning Commission, addressed the Knights of the Round Table at a luncheon in that city last week. His topic was "America's Contribution to Architecture."

ALONG THE LINE

Lawrence H. Taylor, formerly state highway engineer in charge of maintenance, with headquarters at Redding, has been appointed maintenance engineer of the Oakland street department at a salary of \$300 a month.

Edward O. Allen, San Francisco attorney, has been appointed by Governor Young to the State Industrial Accident Commission, to succeed Delger Trowbridge, resigned. Allen has been attorney for the state commission for many years. Trowbridge's unexpired term continues until Jan. 1, 1933.

Chas. A. Whitmore has been reappointed by Governor Young as State Building and Loan Commissioner. The appointment is for a term of four years. Whitmore was first appointed building and loan commissioner about two years ago in succession to Geo. S. Walker of San Jose, who resigned to enter private business.

Chas. L. Hilgartner, president of the Hilgartner Marble Co. of Los Angeles, died at his home in Baltimore, Md., Nov. 4, after an illness of three months, aged 69 years. He was also president of the Hilgartner Marble Company of Baltimore, one of the largest marble works in the world. Officials of the Los Angeles plant announce that business of the firm will be conducted as before with no present change in the personnel.

Edward Hyatt Jr., state engineer of California, has been elected president of the Western Association of State Engineers. George M. Bacon, Utah State engineer, was elected vice-president and George S. Knapp of Kansas and M. C. Hinderlinder of Colorado, were named to the executive committee. The association is made up of the engineers of the seventeen western arid and semi-arid states.

H. C. Chambers has been nominated for the office of president by the Southern California Chapter, American Institute of Architects, to serve during the coming year. Carleton M. Winslow, has been nominated for the office of vice-president; H. Roy Kelley, secretary; Palmer Sabin, treasurer and J. E. Allison, director for the three year term. The election will take place at the December meeting at which time delegates to the national convention to be held next year in San Antonio, Texas, will be selected.

Claude C. Brown, chief gas and electrical engineer of the State Railroad Commission, has issued the annual warning to householders concerning the use of natural gas, to prevent asphyxiation during the winter months. Proper ventilation, Brown says, would eliminate repetition of last year's fatalities. They numbered twenty in two months and a half. The deadly gas created by improper combustion and poor ventilation, the engineer said, is colorless and odorless, and care should be exercised by natural gas users in heating apartments and dwellings.

A 4-page folder of the Byron Jackson Co., Berkeley, gives an account of the principles followed in the construction of deepwell turbine pumps.

Palo Alto Seeks

To Strengthen Law
Favoring Local Labor

Another effort on behalf of local labor will be made by representatives of the carpenters and painters to secure a revision of the city ordinance at Palo Alto covering preferential employment of resident workers on municipal projects.

The ordinance now in effect makes it mandatory that public work financed from the city treasury shall give preference to local labor provided such preference does not increase the cost of the job to the city.

According to spokesmen of local labor, this ordinance, while committing the city to a policy does not guarantee the resident workers any protection against competition with imported labor that can be secured on wage scales below those that are standard in Palo Alto.

Dissatisfied with the statements made previously in defense of the local ordinance that a measure omitting the qualifying provision relative to cost increase would be invalid, the representatives of local labor declare that in some other cities ordinances favoring local labor are on the books minus the clause to which objection is found.

It is the plan of the labor representatives to amass those ordinances of other cities and submit them, together with a plea for a revision of the local measure, at an early meeting of the city council.

The local labor representatives cite the building of the New Palo Alto Hospital as an outstanding example of the defeat of the ordinance's objectives by the cost qualification. Only a relatively negligible amount of resident labor has been employed on that job, they point out. Attention is called by local labor also to the fact that the concrete work in paving of California Avenue has been done chiefly by the employment of imported workmen.

NEW REVERSING MOTOR BEING
MARKETED

The General Electric Company announces a new line of single-phase, repulsion induction motors, designated type SCA, capable of very frequent reversal. These motors have the same appearance as the General Electric type SCR general-purpose, single-phase motors, and are mechanically interchangeable in all respects with corresponding horsepower and speed ratings of that type.

Available ratings from $\frac{3}{4}$ to 5 hp. at 1800 r.p.m., and from $\frac{1}{2}$ to 2 h.p. at 1200 r.p.m. All mechanical modifications which may be applied to the general-purpose SCR motors are equally applicable to the new type SCA. The starting torque is high and ranges from 225 to 227% of normal full-load running torque depending on the rating.

The control for the new motor is very simple, consisting only of a full-voltage, three-pole, reversing switch which may be either manual or magnetic.

Machine tools, garage equipment, and door openers represent a small section of the actual field of application.

Booklets recently issued by the Hercules Powder Co., Wilmington, Del., include one described a new type of explosive known as Hercules Gelamite; a 38-page, compilation of seventeen lectures on the subject of mine foremanship by J. J. Rutledge, chief mine engineer, Maryland Bureau of Mines; and an illustrated catalog in Spanish on explosives, blasting accessories and smokeless powder.

HERE — THERE —
EVERYWHERE

Pomona Valley Lumbermen's Club has been reorganized with J. Fred Nutter of the Pomona Valley Lumber Co. as secretary.

Sacramento Chapter, American Association of Engineers, has endorsed the \$1,750,000 bond issue proposed by the capital city Board of Education to finance the erection of new schools.

The Sixth Annual Banquet of the Building Material Dealers' Association of Northern California will be held December 12 at the Whitcomb Hotel, it is announced by A. G. Rhodes, chairman of the committee in charge of arrangements.

A. P. Nielson of Seattle was elected president of the Northwest Master Painters' Association to serve for the ensuing year. Other officers, elected at the recent convention of the association in Vancouver, B. C., are W. J. Parker, Tacoma, Wash., first vice president; E. E. Peterson, Portland, Ore., second vice-president, and C. A. Brodersen, Forest Grove, Ore., secretary-treasurer. Astoria, Ore., was selected as the 1931 convention city.

At the recent convention of the California Retail Lumbermen's Association discussion of the Contractors' Registration Law revealed that sentiment was strongly in favor of it because of the protection it affords home builders against operations of unscrupulous and incompetent builders. Ten changes proposed in the law by James F. Collins, state registrar, were considered and will be given support by the association. The changes in the law as proposed by Mr. Collins have already appeared in these columns.

Proposals for the construction of the projected Carquinez salt water barrier as a highway crossing, to relieve congested traffic on the Carquinez bridge, are opposed in a report by F. J. Grumm, survey engineer for the State Highway Commission. Merging of the two projects was opposed on the ground the bridge was adequate for traffic needs for 25 years hence, and that the amounts the highway commission could apportion to the barrier project would not be sufficient to have a bearing on the financing of the latter project.

Harry L. Hess, for the past nine years on the engineering staff of the Oakland City Port Commission, first as assistant engineer and later as harbor engineer, has been appointed assistant chief engineer of the Berkeley Water Front Company which concern has started development of the entire waterfront of San Francisco Bay from the Key System pier to Richmond. Previous to going with the Oakland Port Commission, Hess was employed as designing engineer in the dredging department of the Union Construction Company of Oakland.

A booklet describing the patented, self-contained leather oil seal made by the Chicago Rawhide Mfg. Co., 1301 Elston Ave., Chicago, Ill., has been issued by that company.

Totally inclosed fancooled induction motors of the squirrel-cage type are described in leaflet 2124 of the Allis-Chalmers Mfg. Co., Willwaukee, Wis.

ENGINEERING SOCIETIES EMPLOYMENT SERVICE

Further information regarding positions listed in this column is obtainable from Mrs. R. C. Cook, Room 715, 57 Post Street, San Francisco. (Phone Sutter 1894).

R-3324-S DRAFTSMAN, 30-36 years old, technical graduate, with experience indicating executive ability, for general layout and design of refinery equipment. Apply by letter with photo. State salaries earned and reasons for leaving last two positions. Location, No. California.

R-3403-S INDUSTRIAL ENGINEER, not over 35, with experience dealing with labor and production problems as well as rate setting. Must have organizing ability, initiative, tact and energy, technical education and a liking for mathematics as applied to production costs. Apply by letter giving experience in detail, education and general qualifications, with photo. Salary open. Location, Pacific Coast States.

R-3338-S CONSTRUCTION SUPERINTENDENT, preferably with experience in Latin America and capable of taking charge of a hydro-electric construction project involving tunnels, dams, penstocks, power house, coffer dams, etc. Apply by letter with references and photo. Location, Colombia, South America. Hdqtrs., San Francisco. Salary about \$400 month and expenses.

R-3340-S CONSTRUCTION FOREMAN, experienced on high-head hydro-electric plant construction and capable of handling native labor. Must have experience with ferrum pipe installations. Salary about \$300 a month and expenses. Apply by letter. Loc., South America. Headquarters, San Francisco.

W-1873-C-S CONSULTING ENGINEER knowing garage operation, garage equipment, car repair, car utilization and manufacture of parts for repairs, to advise on equipment for service stations and repair shops schedule of operation of trucks, busses, and passenger cars and to organize maintenance and repair of trucks, busses and passenger cars of various makes. Experience in responsible charge of fleet operation and maintenance of trucks and busses desirable. Contract for one year, renewable. Salary open. One-third to one-half in paper rubles for living expenses, balance in United States money to American bank. Applications only by letter which will be forwarded to Moscow for decision. Location, Russia.

WESTINGHOUSE ISSUES NEW GENERAL CATALOG

The Westinghouse General Catalog, 1921-1932, comprised of 1352 pages presenting descriptions and illustrations of apparatus representative of myriad of products manufactured and sold by the Westinghouse Electric & Manufacturing Company, has been announced by that company. The catalog presents complete listings of distribution apparatus, switchgear apparatus (except large oil circuit-breakers and power switchboards), lighting equipment, domestic appliances, gearing apparatus, and current-collecting devices; condensed listings of industrial motors and control apparatus, industrial heating apparatus, and commercial cooking equipment; and descriptions of other products. Style numbers, assigned to pieces of standard apparatus to facilitate ordering and the classification of records, are given for the standard equipment listed.

The following products that are of

special interest to architects, general contractors, and electrical contractors are covered in the catalog: motors and control; arc-welders for steel frame construction; No.-Puz panelboards; meter service breakers; water systems, and industrial, commercial and street lighting equipment.

An interesting feature of the new catalog is the "Instant Index," which appears on a two-page spread, printed on a heavy blue stock, in the center of the book. In this index the 24 groups of equipment described in the catalog are listed in large bold type, and from the name of each group an arrow points to the index notch of the section of the book covering that equipment. Because all the groups thus listed can be noted at a glance and because two large notches at the bottom of the pages make it easy to open the book to the "Instant Index," finding the information for which one is looking is greatly facilitated. As in previous issues, a subject index and a Style Number Index also are included.

An illustrated introductory section, printed in two colors on a heavy enamel stock, presents a brief history of the Westinghouse Electric & Manufacturing Company and a description of interesting research developments.

Realty Men to Study Industrial Buildings

With a view to the prevention of the untimely demise of buildings from which industries are removing, the Industrial Property Division of the National Association of Real Estate Boards at its recent Detroit conference named a committee of realtor location experts who will study industrial buildings with the purpose of determining whether or not it is feasible to attempt to plan such structures so that they are adaptable to the manufacturing processes of a wide variety of industries.

Expansion of business may mean that a given industry needs a totally different location; transportation facilities and sources of electricity, raw products may change power and fuel location for manufacturing plant, or fashion and the ever changing wants and desires of the consumer may doom the product of the industry and cause the death of the concern. Then what of the building which has been especially built to house one particular industry?

Use Too Restricted

It is the belief of the Division that the present prevailing limited usage to which industrial buildings are restricted is, for the most part, due to the fact that the structures were planned without taking into consideration the fact that at some future time it might be advisable for them to house totally different industries. The newly appointed committee will work toward setting forth specific recommendations for the planning of industrial buildings, recommendations on size, light, space, of industrial property some guide whereby to build for the maximum utility from a structure and from which financing concerns could judge whether they are putting resources into a structure whose prosperity hangs on the particular industry it is built to house or are putting funds into a building which has a wide scope of usefulness. Members of the committee in charge of making the study are: J. C. Erleson, Chicago, chairman; Joel L. Schlesinger, Newark, New Jersey; W. K. Bates, Boston, Mass.; and James Carey Martien, Baltimore, Maryland.

Will Investigate Financing

An investigation of ways and means of supplying funds to new industries and to industries that require more

capital in order to make them profitable assets to their communities is to be launched by the Division this fall. It was announced at the Detroit meeting. Various plans for bringing additional capital to industries equipped to undertake more production but lacking the necessary funds for expansion will be analyzed. Plans developed by individual financing corporations will be examined. The special committee appointed to conduct this survey includes: J. H. Van Vliet, Chicago, chairman; W. E. G. Gallard, New York City, vice-chairman; W. G. Burchfield, Houston, Tex.; G. Harvey Porter, Baltimore, Maryland, and F. E. Ayres, Louisville, Ky.

5,500,000 GALLONS A DAY IS RENO PUMP OUTLAY

One of the largest deepwell pumps for city water supply in this country, having an output of 5,500,000 gallons a day, was recently placed in operation in Reno, Nevada. The new pump supplies domestic water to Reno and Sparks, Nevada, and was needed as a source of supply in times of water shortage in the nearby mountain streams of the eastern Sierra slope, which form the normal source of supply.

The well, located near the main highway between Reno and Sparks, was drilled by the Western Drilling Company of Carson City for the Sierra Pacific Power Company. The pump, a Western make, known as a deep-well turbine, is driven by a General Electric 4,000-volt, 400-horsepower vertical hollow shaft motor turning at 1150 r. p. m. The motor is the largest vertical hollow shaft motor yet built. It requires only a low starting current and is thrown directly on the line with the magnetic switch. A phase reversal relay prevents unscrewing the pump connections in case of power phase reversal. The top bearing is water cooled and is protected against overheating by a temperature relay which shuts down the pump if the bearing becomes overheated. As the cooling water is taken directly from the pump discharge, failure of pumping water will also shut down the pump.

To meet the demands of this pumping plant, a new outdoor substation was installed which transforms power from 22,000 to 4000-volts through a bank of three 667-kva. transformers. This substation also supplies the industrial power load in the same vicinity. It is provided with an outdoor reclosing circuit breaker equipment on the 4000-volt side to eliminate unnecessary shutdowns. This substation has all supply and load lines underground.

RUSSIAN LUMBER CONSIGNMENTS SELLING SLOWLY IN CUBA

Russian softwood, mostly spruce, amounting to some 2,000,000 board feet arrived on consignment in Havana, Cuba, during the past year and approximately 56 per cent remains unsold, says a recent communication from Acting Commercial Attaché Albert F. Nufer at Havana to the Lumber Division of the Department of Commerce.

This Russian lumber consists of spruce and pine, the bulk of the shipments being spruce. Of the 2,000,000 quantity delivered, about 3,500,000 board feet remains unsold, of which 3,700,000 board feet are spruce. The Cuban trade reports that the primary use to date of this Russian lumber has been for box manufacture.

SANTA MONICA HARBOR DEVELOPMENT PLANNED

Construction of cribs for the breakwater to be constructed at Santa Monica for the Santa Monica Harbor company will probably be started within thirty days, according to Taggart Aston, consulting engineer of Los Angeles.

These cribs will be built at Los Angeles Harbor and towed to the location of the breakwater. Construction will be on a cost plus basis, under the direction of an experienced builder formerly associated with Mr. Aston in similar work in other parts of the world.

The cribs will be of water-tight construction, each 100 ft. in length, 30 ft. wide at the bottom, sloping to a width of 23 ft. with a stadium type top surmounting the structure for spectators. The walls will be 32 ft. in height to the top of the slope, the water at this point being 25 ft. deep at mean lower low water and 30 ft. deep at mean high tide. The sides above water will rise 12 to 14 ft. finished in steps. Each crib will consist of 14 cells with reinforced walls, the walls being from 20-in. to 12-in. in thickness with center walls 10-in. thick, and 12-in. floor. Each crib will contain approx. 1000 cu. yds. of concrete and weigh 1500 tons. When filled with sand the weight will be approximately 3500 tons. The crib will be built with a cove on the outside to repel the waves. There will be a 12-in. macadam surfacing on the base, about 1 1/4 to 1 3/4 yds. to the lineal foot, laid by divers. This will prevent the water reaching the sub-base under the crib. The present construction program calls for completion of one crib every ten days. The total length of the breakwater is to be 3500 ft.

Present work includes extension of the Santa Monica municipal pier for a length of 200 ft. to a point where a steel suspension bridge will connect the pier with the breakwater. Contract for placing and bracing the pier extension, including driving of piles, etc., has been let to W. G. Murdock of Los Angeles, who will probably complete that portion of the work within two months. Construction of the bridge will be started but no attempt will be made to complete the bridge before the first unit of the breakwater, or 1500 ft., has been laid. W. G. Murdock will place the first of the steel cylinders for the bridge to a point 8 ft. above low water. Contract for the steel has not been let, but the successful bidder will probably be announced within the next few weeks.

The estimated cost of the pier extension, suspension bridge and the first 1500 ft. of the breakwater is \$410,000. The second unit of 1500 ft. of breakwater will cost about \$340,000. Construction of wharves, slips and appurtenant structures will total \$100,000.

Mr. Aston states that this type of construction has been successfully used in government works at Halifax, Montreal, the Welland Canal, connecting Lake Ontario and Lake Erie, a 26-mile project, the municipal harbor project at Barcelona. The latter projects were under Mr. Aston's personal supervision.

Designs for similar type of construction have been requested by Los Angeles Harbor, Engrin Nicholson for Fish Harbor and Cabrillo Harbor breakwaters, by Maj. Lanagan, U. S. Engineer, for a Los Angeles Harbor breakwater and for a breakwater at Monterey Harbor.

ENGINEER APPOINTED

Romeo R. Martel has been made professor of structural engineering at the California Institute of Technology,

Pasadena. Mr. Martel has been at the Institute since 1918, successively as instructor, assistant professor, associate professor and professor of civil engineering. He represented the Southern California Council on earthquake protection at the third Pan-Pacific Science Congress, Tokyo, 1926, and also attended the World Engineering Congress in Tokyo in 1929 as representative of the California Institute of Technology.

HIGHWAY BUILDING FILMS ARE AVAILABLE

A new series of road-construction films, sponsored by the Bureau of Public Roads, U. S. Department of Agriculture, has just been released. They are for the use of highway engineers, road builders, engineering students, and others interested in better roads. These films, showing the most modern methods, replace films withdrawn from circulation because improvements in road making have made the old films obsolete.

"Mixed-in-Place Bituminous Surfaces," 2 reels, compares the bituminous treatment of crushed stone and gravel surfaces (that uses light road oil and small stone with the practice of using heavier road oil and larger stone. The basic principle of the mixed-in-place bituminous surfaces is the use of bitumen instead of water as a binder. The film shows the advantages of this type of road construction together with the details of construction. Most of the scenes were taken in Arizona, California and Indiana. This film takes about thirty minutes to show.

"Hot-Mixed Bituminous Pavements," 1 reel, shows that hot mixing of properly proportioned ingredients is essential for maximum stability in bituminous pavements, and that mixing of dry materials before the addition of bitumen is vital for a uniformly stable surface. The film treats of the construction of bituminous concrete pavements, including sheet asphalt. Most of the scenes were photographed in California. It takes fifteen minutes to show this film.

"Penetration Bituminous Macadam," 1 reel, replaces the old film, "What About Macadam?" and pictures the construction of penetration bituminous macadam surfaces. The scenes were made in the New England States where this type of road has been developed to a high degree, especially in Massachusetts and Rhode Island. This film takes fifteen minutes to show.

In the hour required to show the three films, one may learn much about modern methods of constructing these types of roads. The films show different methods that may be used under varying conditions. Though of a technical nature and designed primarily for road builders, the general public may learn much by seeing the films and will better appreciate the good roads over which they ride in their automobiles.

Borrowers of these films should apply to the Office of Motion Pictures, U. S. Department of Agriculture, Washington, D. C. Like all the department's films, they are loaned free of charge, the borrower paying only transportation charges to and from Washington. Films may be borrowed for one showing; or for a series of showings provided arrangements are made sufficiently far in advance. Schools, colleges, or organizations may film practically at cost. Many institutions avail themselves of this opportunity, as the number of copies for free distribution is limited. Foreign governments and State Highway Departments have been frequent purchasers of the department's road-construction films.

OAKLAND AMENDS GAS TANK ORDINANCE

Gasoline tanks must be filled hereafter within property-lines of service stations and not from streets or sidewalks, according to an ordinance passed to print by the Oakland city council, effective when given final passage in eight days.

Commissioner George Wilhelm, who introduced the ordinance, said there have been frequent complaints because of interruption to traffic caused by heavy gasoline tank-wagons halting at curbs and piping gasoline into service station tanks. As it usually takes some time to fill a big gasoline tank, Wilhelm said that the filling should be done within the service station property lines.

The law, as amended, reads as follows:

Section 7. All storage tanks shall be placed in the spot agreed upon by the Fire Marshal and Bureau of Research; provided, however, that the opening of an intake pipe of any gasoline storage tank shall not be located within the sidewalk or street area, and must be located not less than three feet (3') inside of the property line, and the transferring of gasoline into any such storage tank shall be done inside of the property line, and no pipe, hose or other appliance used for the conveyance or passage of gasoline shall be laid over or upon any sidewalk.

All intake pipes of gasoline storage tanks heretofore installed shall be changed to conform with the provisions of this section within (10) days after the passage of this ordinance.

Section 2, Sections 7a to 7f, inclusive, are hereby added to Ordinance No. 418 N S, to read respectively as follows:

Section 7a. Where the sidewalk is not excavated for basement use, the top of the storage tanks must be at least four (4) feet below the surface; the space between the top of the tanks and the sidewalk shall be filled with earth.

Section 7b. Where the sidewalk is excavated and used as part of the basement, the tanks may be placed under the sidewalk and may rest on or under basement floor; a brick or concrete wall not less than twelve (12) inches thick shall surround said storage tanks, extending from bottom to four (4) feet above the tops of the tanks; the space between top of tanks and the top of walls shall be filled with earth, covered with at least three (3) inches of concrete.

Section 7c. Where two or more tanks are installed, they shall be separated by brick or concrete wall not less than twelve (12) inches thick.

Section 7d. No tank shall be connected to another so that gasoline can flow from one to another.

Section 7e. No storage tank shall be covered with earth until an inspection has been made by the Fire Marshal.

Section 7f. One storage tank only may, with the consent of the Marshal, be installed for a private garage on private property; said tank to be at least twenty (20) feet from any building or structure or part thereof, and covered with at least two (2) feet of earth.

Frederick H. Meyer has been appointed a member of the Board of consulting Architects for the San Francisco Civic Center project. The appointment has been confirmed by the Board of Public Works. Arthur Brown Jr., J. Bakewell and H. H. Gutterston have been appointed to serve in conjunction with Mr. Meyer in an advisory capacity. The appointments are honorary and members of the board serve without compensation.

HAZARDS ASSUMED IN BOULDER CANYON PROJECT DESCRIBED BY ENGINEER

Hazards to be assumed by the contractor relative to fluctuations in prices of equipment and supplies for the Boulder Canyon project appear to be small compared with the hazards which will be assumed by the United States under the contemplated plan for the development. In the opinion of the project's construction engineer, Walker R. Young, says the U. S. Dally.

The contractors' greatest hazard appears to be in fluctuations of the price of labor, he said in a communication just received by the Commissioner of Reclamation, Dr. Elwood Mead. Mr. Young pointed out, however, that the position of the Associated General Contractors that there should be a determination of some basis for competitive bidding on the project, and a form of contract resulting neither in excess cost to the United States nor in excess profits or risk to the contractors is well taken.

The contractors' organization passed a resolution at a board meeting recently at Rye, N. Y., asking the Secretary of the Interior, Ray Lyman Wilbur, to take up with the Comptroller General the matter of basis for competitive bidding and a contract form "to the end that this great project can most economically and successfully be performed."

The resolution, according to a copy made available at the Bureau of Reclamation, cited the large cost of the project and the number of years needed for its completion—a period "during which it will be most difficult to forecast with any degree of accuracy the cost of necessary materials and labor."

Steps Toward Reducing Hazards to Contractors

Uncertainties in estimating the cost of construction, the resolution said, necessarily require the prudent contractor to resolve all doubt in his favor in computing and submitting his bid.

The resolution, it was explained orally at the Bureau was referred to field offices for a reaction, and it now appears that the matter is one for administrative action and that it will not be necessary to refer it to the Comptroller General.

Further information from Mr. Young's communication to the Commissioner follows:

The Bureau has already taken a number of steps toward reducing to a minimum the hazards which must be assumed by the contractor. For example:

A conscientious effort has been made, at considerable expense to the Government, to secure accurate and detailed information for the prospective bidders' and contractors' benefit, as well as for the Bureau's use. The "unknowns" have been reduced as much as humanly possible.

All materials which will become a part of the finished structures will be furnished by the Government, eliminating uncertainties regarding cost of these materials.

According to the contemplated plan, the uncertainties of construction will be reduced to the absolute minimum. All hazards in connection with diverting the river will be assumed by the United States. The diversion tunnels will be of large capacity, in fact, very much larger in proportion than are usually provided in construction of dams. The diversion tunnels will be constructed according to designs furnished by the Government, and will be built under the inspection of the Government. If they fail, contrary to

ordinary procedure, the Government will stand the loss and the contractor will be paid for their reconstruction.

A mosaic map of an extensive area in the vicinity of the dam site as well as excellent topography has been secured, which gives the contractor complete information relative to the character of the country in which the work is to be performed, and provides maps from which he can accurately estimate quantities and on which he can lay out his plant.

Mosaic Maps Will Give Contractors Full Data

Hydrographic data over a period of a great many years has been assembled from which he can obtain information regarding the probable discharge of the river and, therefore, the works that will be necessary for the protection of his plant. A gaging station has been established in Grand Canyon, which serves to warn him of any impending danger from up river.

Foundation conditions have been thoroughly developed at the damsite by extensive diamond drill operations. As a result, the depth to bed rock and the character of material to be excavated are accurately known.

The Government will assume the responsibility of selecting the sand and gravel pit, thus eliminating any hazard in that direction.

A construction railroad and highway to the damsite will be furnished by the Government in advance of the beginning of operations and, in addition, the Government will supply electric energy at the damsite at specified rates, thus eliminating any uncertainties to be assumed by the contractor in the preliminary work.

Townsite facilities will be made available by the Government, including public utilities at specified rates.

The resolution set forth no constructive ideas for bettering the position of the contractors. If it is decided to do work on a cost basis, there appears to be no good reason why it should not be done by "Government force" account. A cost plus basis would be incompatible with the general principles underlying contracting work.

A reduction in the amount of bond, which is usually set at 50 per cent of the contract price, is suggested, as a contractor might have difficulty in furnishing a bond for the costly Boulder Canyon project.

It is believed that the situation could further be relieved if it were stated definitely in the contract that payment of progress estimates would be made in full after a reasonable hold back had been built up. It is provided that the work to date had been done in a satisfactory manner. A 2½ per cent holdback instead of the usual 10 per cent is suggested, to be built up by holding back 10 per cent of the progress earnings until the holdback had been built up to the total amount of \$2,500,000. The dam and power plant are estimated to cost \$100,000,000.

The contract might be drawn to provide annual adjustments in unit contract prices, in a specified ratio between an index figure for the prices of materials and labor for the year in which the contract was signed, and each succeeding year thereafter. The index figures should be furnished by a national agency—possibly the Department of Commerce and Labor.

If this plan were adopted, a differential should be established, so that any increase would be in part borne by the United States and in part by

the contractor, to prevent higher prices being paid by the contractor than were necessary in comparison with the ruling market. Likewise, in case of a reduction below the index, the United States would share in the resultant saving.

As an example, this differential might be fixed at a 75 per cent share for the United States, and a 25 per cent share for the contractor, in which case any increase in the price of the contractors' equipment, supplies and labor would be borne by the respective parties in that proportion. Likewise any decrease would accrue to the benefit of the respective parties in the same proportion. In other words, the contractor would be secured against any risk in excess of 25 per cent of the increase in these items, and would profit to the extent of 25 per cent of any corresponding decrease.

CURRENT SITUATION IN CEMENT REPORTED

Plant capacity and shipments have increased rapidly in the cement industry since 1922, according to the United States Bureau of Economic Development of Commerce. The increase in shipments became very slow about 1927, and from 1928 there was a decided decrease. While shipments are falling off, plant capacity is steadily increasing, and there is no indication of any recession in the growth of plant capacity, the Bureau reports.

Minor fluctuations occur in plant capacity from month to month, while stocks and shipments show marked seasonal fluctuations which are characteristic of the industry. Stocks of cement in 1930 were considerably higher than for the corresponding months in 1929. Shipments in 1930 show a moderate decrease from the 1929 figures. Shipments for the first 10 months of 1929 total 152,264,000 barrels and for 1930, 144,272,000 barrels.

The facts brought out most forcibly in the Bureau's survey of the situation are: (1) A rapidly increasing plant capacity with no indication of a falling off in the rate of increase; (2) a moderate falling off in shipments; (3) a moderate increase in stocks on hand; and (4) a pronounced and steady decrease in price per barrel. Future conditions that may develop as a result of this combination of circumstances demand the earnest consideration of very cement plant operator, the Bureau concludes.

The foregoing facts are brought out by supplementary tables and charts which have been made a part of the Bureau's regular monthly statement giving cement statistics for October.

EXPLORATION WORK FOR DAM UNDER WAY

Contracts have been awarded by the Los Angeles County Flood Control District for exploration work at the site of San Gabriel Dam No. 1, about two miles below the Forks, where a high dam had been planned, but was abandoned because of lack of a safe foundation.

This new dam is one of three proposed by Chief Engineer E. C. Eaton to be financed out of the \$21,000,000 left of the original \$25,000,000 bond issue.

The district has a permit from the Federal government to build a rock all flexible type dam with concrete face at the site now being explored if a suitable foundation can be secured.

Cost of the exploration work, consisting of diamond drill holes and tunnels, will be about \$14,000. Inasmuch as the supreme court once ruled

that only a high dam could be built under the bond issue, carrying out the plan to build three smaller dams is contingent upon the court giving its sanction.

Building News Section

APARTMENTS

Sub-Contracts Awarded.

APARTMENTS Cost, \$85,000
OAKLAND, Alameda Co., Cal. 62nd near College Ave.
 Three-story frame and stucco apartment with concrete basement (30 2-3- and 4-room apts.)
 Owner—A. Jensen, care architect.
 Architect—H. K. Jensen, 354 Hobart St., Oakland.

English type of architecture, composition and shingle roof, steam heating system, and all modern conveniences.

Plumbing and Steam Heating—E. O. Dryer, 1918 Lakeshore Blvd., Oakland.

Electrical Work—Fritz Elec. Co., 838 Webster St., Oakland.

As previously reported, structural steel awarded to McGrath Steel Co., 354 Hobart St., Oakland; lumber to Smith Lumber Co., foot of 18th Ave., Oakland; pans to Steelform Contracting Co., Monadnock Bldg., San Francisco.

Plans Completed.

APARTMENTS Cost, \$—
LOS ANGELES, Calif. Sunset Blvd. near Kings Road.
 Fourteen-story reinforced concrete class A apartments (168 rooms).
 Owner—Wm. I. Moffett, Pacific National Bldg., Los Angeles.
 Architect—Leland A. Bryant, 6513 Hollywood Blvd., Los Angeles.

Sub-Contracts Awarded.

APARTMENTS Cost, \$175,000
SAN FRANCISCO. Green Street near Octavia Street.
 Six-story class A steel frame and concrete apartments (112 rooms).
 Owner and Builder—F. L. Hansen, 282 Seventh Street.
 Engineer—John G. Little & Co., 251 Kearny St.
Ornamental Iron—C. J. Hillard Co., Inc., 19th and Minnesota Sts.
Structural Steel—McClintic-Marshall Co., 2050 Bryant St.

Carpentry Finish Contract Awarded.
APARTMENTS Cost, \$650,000
SAN FRANCISCO. California St. and Joice Street.

Eight-story class A steel frame and reinf. concrete apartments (300 rooms).

Owner & Builder—Marian Realty Co., 110 Sutter St.

Architect—H. C. Baumann, 251 Kearny Street.

Carpentry Finish—Louis Anderson, 3370 Army St.

Construction Indefinitely Postponed.

APARTMENTS Cost, \$115,000
BURLINGAME, San Mateo Co., Cal.
 Two-story frame and stucco apartments (two 4-room apts.)
 Owner—Edward Stack.
 Architect—Edwards and Scharly, 605 Market St., San Francisco.

Contract Awarded.

APARTMENTS Cost, \$—
LOS ANGELES, Cal. No. 1861 Cherokee Avenue.

Ten-story and basement Class A reinforced concrete apartments (86x 95 ft. (200 rooms).

Owner—Cherokee Properties, Ltd.

Architect—Marcus P. Miller, Board of Trade Bldg., Los Angeles.

Contractor—Herbert M. Baruch Corp., Ltd., Lincoln Bldg., Los Angeles

Correction in Owner's Address.

APARTMENTS Cost approx \$18,000
OAKLAND, Alameda Co., Calif. Park Boulevard.

Two-story and basement frame and stucco apartments.

Owner—H. E. Lansing, 3316 14th Ave., Oakland.

Architect—F. H. Slocombe, 62 York Drive, Piedmont.

Bids are being received by owner on a general contract and also segregated bids.

Contract Awarded.

ALTERATIONS Cost, \$12,000
SAN FRANCISCO. No. 1531 Jackson Street.

Alter three-story and basement frame flats for apartments (4 4-rm apts).
 Owner—John Davis.

Architect—Walter Falch, Hearst Bldg., San Francisco.

Contractor—George Hansel, 506 29th Ave., San Francisco.

Sub-Bids Wanted.

APARTMENTS Cost, \$45,000
OAKLAND, Alameda Co., Cal. N 34th St. E Grove St.

Three-story and basement frame and stucco apartments (42 rooms).

Owner and Builder—Edward C. Gilbert, 581 33rd St., Oakland.

Architect—F. H. Slocombe, 62 York Drive, Piedmont.

Sub-bids are being taken on tiling, concrete floors, finish hardware, carpets, window shades and gas stoves.

November 20, 1930

Date of Opening Bids Postponed Until Nov. 26th, 2:00 P. M.

ADDITION Cost, \$22,000
WATSONVILLE, Santa Cruz Co., Cal.

Three-story frame and stucco addition to apartments (4 apts).

Owner—Stewart Thompson, 19 Madison St., Watsonville.

Architect—Wolfe and Higgins, Realty Bldg., San Jose.

Garage to care for 10 cars, steam heating plant, etc.

Plans Being Completed.

APARTMENTS Cost, \$250,000
SAN MATEO, San Mateo Co., Cal. Location Withheld.

Six-story and basement Class C steel frame, brick and concrete apart-

SKILSAW Portable Electric Hand Saws (4 models).

SKILSAW Portable Electric Sander

SKILSAW Radial Arm Attachments.

SYNTRON Portable Electric Hammers (4 models, motorless).

MALL Flexible Shaft Machines (50 models).

Electric Drills, Grinders, Buffers, Routers, Lock Mortisers.

PETER H. NELSON

Labor Saving Portable Electric Tools.

1248 Mission St. Underhill
 San Francisco 7662

SALES . SERVICE . RENTALS

ments (21 2, 3, 4, 5, 6, 7 and 8-room apts.)

Owner—Withheld.

Architect—Willis Lowe, 354 Hobart St., Oakland.

Bids will be taken in one week or ten days.

CHURCHES

Preparing Preliminary Plans.

CHURCH Cost, \$—
TAFT, Kern Co., Cal.

One-story frame and stucco church (70x50 ft.) auditorium to seat 250.

Owner—First Christian Church of Taft.

Architect—Robert H. Orr, Corporation Bldg., Los Angeles

H. J. Kirschlein is chairman of the building committee.

SANTA BARBARA, Cal.—Missionary Alliance has purchased property on Arlington Ave. as site for new church to be erected soon. Cost of site was reported at \$17,000.

Plans Being Figured—Bids Close Nov. 24, 2 P. M.

CHURCH Cost, \$6500
WILLOW, Glenn Co., Cal.

One-story frame and stucco church.

Owner—First Church Christ Scientist Willows.

Architect—Otto Deichmann, 110 Sutter St., San Francisco.

Bids are being received by Mrs. R. M. Montz, Secty at Willows, from local contractors only.

Preparing Working Drawings.

CHURCH Cost, \$70,000
OAKLAND, Alameda Co., Cal. Emerson and Excelsior Aves.

Reinforced concrete church.

Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.

Architect—W. E. Schirmer, 700 21st St., Oakland.

Bids will be taken about Dec. 1.

Plans Being Prepared.

CHURCH Cost, \$25,000
NAPA, Napa Co., Cal.

Gothic Type Church, 110-ft. by 25-ft. with interior elevation of 38-ft., seating 300 persons.

Owner—St. Mary's Episcopal Church, Rev. Chas. W. Pearson, rector, Napa.

Architect—C. LeRoy Hunt, 2nd and Main Sts., Napa.

A campaign for \$10,000 is now underway. \$15,000 already having been subscribed. Members of the building committee are: Harry E. Boudier,

Hensley S. Davis, George W. Danforth, C. W. F. Merwin and Will C. Keig.

Contract Awarded.

ALTERATIONS Cost, \$22,100
OAKLAND, Alameda Co., Cal. East 17th St. and Fruitvale Ave.

Alterations and additions to church (2 vestibules, foyer, porch, etc.)

Owner—Third Church of Christ Scientist, 1642 Fruitvale Ave., Oakland.

Architect—Henry E. Guttererson, 526 Powell St., San Francisco.

Contractor—A. Cedarborg, 1455 Excelsior Blvd., Oakland.

FACTORIES AND WARE-HOUSES

Sub-Contracts Awarded.

PLANT Cost, \$10,000
FORT BRAGG, Mendocino Co., Cal.
Group of corrugated iron buildings for distributing plant.

Owner—Associated Oil Co., 79 New Montgomery St., San Francisco.
Plans by Eng. Dept. of Owner.

Contractor—Dyer Const. Co., Ray Bldg., Oakland.

Concrete—F. Tamborini, Fort Bragg.
Lumber, Mill and Electric Work—Union Lumber Co., Fort Bragg.

Plumbing—Windlinx Hardware Co., Fort Bragg.

Mill Work, Corrugated Iron and Hardware—Union Lbr. Co., Ft. Bragg.

Sub-Contracts Awarded.

PLANT Cost, \$10,000
SOUTH FORK, Humboldt Co., Cal.
Group of corrugated iron buildings for distributing plant.

Owner—Associated Oil Co., 79 New Montgomery St., San Francisco.
Plans by Eng. Dept. of Owner.

Contractor—Dyer Const. Co., Ray Bldg., Oakland.

Clearing—C. E. Taggett, South Fork.
Sheet Metal—Harris Sheet Metal Wks Eureka.

Millwork and Corrugated Iron—George McEbs Co., Eureka.

Lumber—Pacific Lumber Co., Scotia.
Gravel Filling, Etc.—W. Kern, Weott.

Contract Awarded.

ADDITION Cost, \$25,000
EMERYVILLE, Alameda Co., Calif.
Peladeau and Powell Sts.
One-story brick and steel addition to present factory.

Owner—Westinghouse Electric Co. premises.

Contractor—Cahill Bros., 206 Sansome Street.

Plans by Eng. Dept. of Owner.

Bids Being Held Under Advertisement.
SERVICE BLDGS. Cost, \$45,000
REDWOOD CITY, San Mateo Co., Cal.
Group of service bldgs. (wood frame and tile walls).

Owner—Pacific Gas & Electric Co., 245 Market St., San Francisco.

Plans by Eng. Dep. of Owner.

Group includes warehouse, garage, service departments, superintendent's offices, etc.

STOCKTON, San Joaquin Co., Cal.
—Liquid Sugar Corp., Ltd., has purchased the Union Mill of the Sperry Flour Co. at Stockton and will remodel the plant and install new equipment. The Liquid Sugar Company is a subsidiary of the International Sugar Company and is financed principally by that organization. Pierre d'A. Philippe, nationally-known sugar authority, is president of both organizations and R. C. Melvin of San Francisco, vice-president.

Additional Sub-Contracts Awarded.

ASSEMBLY PLANT Cost, \$3,500,000
RICHMOND, Contra Costa Co., Cal.
Group of steel frame and brick buildings (1story assembly plant, 300,000 sq. ft. 2- or 3-story wharf building and receiving building).

Owner—Ford Motor Car Co., Detroit.
Architect & Engineers—Albert Kahn, Inc., Marquette Bldg., Detroit.

Chief Engineer—(Ford Motor Car Co.) R. B. Brown, Detroit.

Contractor—Clinton Const. Co., 923 Folsom St., San Francisco.

Glass and Glazing—Tyre Bros., 666 Townsend St., San Francisco.

Rolling Steel Doors—D. A. Pancoast Co., 665 Market St., San Francisco.

Steel Lift Doors—Bally Iron Works, Springfield, Ohio.

Terrazzo Floor—Henry Gervais Co., 1727 Mission St., San Francisco.

Rubber Tile, and Quarry Tile Floors—Malott and Peterson, 3221 20th St., San Francisco.

Folding Doors and Automatic Operators—R. V. Harry Co., San Francisco.

Gunitie Work—Cement Gun Const. Co., 58 Sutter St., San Francisco.

Lathing and Plastering—T. D. Sexton, San Francisco.

Other awards reported Sept. 29, 1930.

Plans Being Figured.

WAREHOUSE Cost approx. \$150,000
SAN FRANCISCO, Sansome and Vallejo Streets.

Three-story reinforced concrete warehouse.

Owner—Poultry Producers of Central California, 700 Front St.

Architect—H. C. Baumann, 251 Kearny Street.

BISHOP, Inyo Co., Cal.—State Highway Commission rejects bids to construct truck shed in connection with maintenance station at Bishop and the work will be done by commission forces on the day labor basis.

Bids To Be Taken In About Two Weeks.

HANGAR, ETC. Cost, \$100,000
ALAMEDA, Alameda So., Cal. Webster Street.

All-steel hangar and administration building (120x440-ft.).

Owner—Alameda Bay Airdrome (R. U. St. John, field manager).

Architect—Not Given.

The structure will be 120 by 440 ft. and will house shops and offices, in addition to providing plane storage space for 70 small planes or 15 trimotored transports.

November 15, 1930

Preparing Working Drawings.

SERVICE BLDGS. Cost, \$6,000
SAN MATEO, San Mateo Co., Cal.

Group of service buildings (concrete construction).

Owner—Pacific Gas & Electric Co., 245 Market St., San Francisco.

Plans by Eng. Dept. of Owner.

Complete Bid Listing.

CREAMERY Cost, price, \$115,560
SAN FRANCISCO, 15th and York Sts. (137x200-ft.).

Two-story and basement class E concrete creamery (foundation bid for two additional stories to be added later).

Owner—Challenge Creamery and Butter Assn., 307 Montgomery St.

Architect—Dodge Riedy, Pacific Bldg.

Low Bidder—Monson Bros., 475 Sixth Street.

Following is a complete list of bids:

Monson Brothers	\$115,560
J. Harold Johnson	115,597
K. E. Parker	121,300
G. P. W. Jensen	121,470
J. L. McLaughlin	122,518
MacDonald & Kahn	122,727
Sorensen & Haggmark	122,978
Barrett & Hill	124,821
F. J. Rellig	127,714
F. J. Selgrist Co.	128,000
F. Mueller	129,935
W. R. Nielsen	133,185
Chas. H. Nielsen	135,000
Ira Coburn	157,792

Bids held under advisement.

RENO, Nev.—Stoddard Moulding Mill suffered a \$75,000 fire loss Nov. 13. Preparations will be made to rebuild at once.

Construction Postponed Until April 1

MFG. PLANT Cost, \$75,000
WATSONVILLE, Santa Cruz Co., Cal.

One-story brick vitamin manufacturing plant.

Owner—Lettisvine Vitamin Co., Inc., Watsonville.

Plans by Mr. Brositt, Eng. Dept.

Chas. Dickens and Staff, 4 Key Route Arcade, Oakland.

Incorporators are: Dr. Chas. Dickens of Oakland; H. F. Boyer, James T. Mann, Harry L. Sears, Ned B. Strong and James H. Cutler of Watsonville.

Bids Opened.

TRUCK SHED Cost, \$—
GARBERVILLE, Humboldt Co., Cal.

Maintenance station truck shed.

Owner—State of California.
Plans by State Department of Public Works, Division of Highways, State Office Bldg., Sacramento.

Following is a complete list of bids received, all being referred to the Sacramento offices of the State Highway Commission for action:

McCarthy & Johanns	741 14th St., San Francisco	\$4,488
Mercer-Fraser Co., Eureka		5,466
Oliver S. Almie, 709 N. Fifth St., Grants Pass, Ore.		5,983

Contract Awarded.

DISTRIBUTING PLANT Cost, \$—
SAN FRANCISCO, 18th and Caroline Streets.

Distributing plant (concrete gravel bunkers, bins, etc.; 1st unit).

Owner—Kaiser Paving Co., 74 New Montgomery St.

Engineer—L. H. Nishkian, 525 Market Street.

Lessee—Readymix Concrete Co., 575 Berry Street.

Contractor—L. J. Cohn, 1 De Haro St.

Following is a complete list of bids:

L. J. Cohn, San Francisco	\$13,728
Monson Brothers	14,116
Barrett & Hill	15,665
Spivock & Spivock	16,360
Sorensen & Haggmark	16,900
MacDonald & Kahn	17,430
J. A. Bryant	18,000
S. Rasori	18,239
Clinton Stephenson Co.	18,376
H. L. Petersen	19,716
J. L. McLaughlin Co.	19,786
Villadsen Brothers	20,500

GARAGES AND SERVICE STATIONS

Wrecking Under Way.

SERVICE STATION Cost, \$—
SAN FRANCISCO, 8th Ave. and Fulton Sts.

Service Station.

Owner—Weisheim Bros. & Co., 582 Market St.

Architect—Withheld.

Wrecking—Symon Bros. Wrecking Co., 1435 Market St.

Present building on site is now being wrecked. More information will be given shortly.

Wrecking Under Way.

SERVICE STATION Cost, \$—
SAN FRANCISCO, Pacific and Larkin Sts.

Service Station.

Owner—Allen & Co., 168 Sutter St.

Architect—Withheld.

Wrecking—Symon Bros. Wrecking Co., 1435 Market St.

Contract Awarded.

GARAGE Cost, \$11,000
PALO ALTO, Santa Clara Co., Cal.

College Terrace.

Reinforced concrete garage.

Owner—F. and A. Casaurang, 313 Emerson St., Palo Alto.

Architect—None.

Contractor—George B. Moore, 531 Stanford Ave., Palo Alto.

Sub-Bids Wanted By Owner

SERVICE STATION Cost, \$6000
SAN FRANCISCO, SW Powell St. and Pacific Ave.

One-story Class C brick service station.

Owner and Builder—E. F. Driscoll, 166 Beaver St., San Francisco.

Plans by D. E. Jaeckle, Cal Bldg., San Francisco.

Owner Taking Sub-Bids.

GARAGE Cost, \$—
MORGAN HILL, Santa Clara Co., Cal.
 One-story tile garage.
 Owner—R. H. Hencken, Morgan Hill.
 Architect—A. W. Story, Pajaro Valley
 Bank Bldg., Watsonville.

Bids Opened.

GARAGE Cost, Approx. \$30,000
BERKELEY, Alameda Co., Cal., Oxford Street.

Class C concrete garage and service station.

Owner—Recents of University of California, Berkeley.
 Architect—W. H. Ratcliff, Jr., Chamber of Commerce Bldg., Berkeley
 Lessee—Richfield Oil Company.

Following is a complete list of bids received:

Barrett & Hilp, 918 Harrison	St., San Francisco.....	\$26,792
Connor & Connor, Oakland.....		26,900
David Nordstrom, Oakland.....		26,946
Wm. C. Keating, Oakland.....		26,999
Chas. McCullough, Oakland.....		27,142
A. Cedarburg, Oakland.....		27,350
Niles W. Place, Oakland.....		27,380
Sullivan & Sullivan, Oakland.....		27,390
C. Dudley De Velbis, S. F.....		27,560
Fred J. Westlund, Oakland.....		27,670
E. T. Lesure, Berkeley.....		27,760
N. H. Sjoberg & Sons, S. F.....		27,777
Herbert Henderson, Oakland.....		28,050
F. C. Stolte, Oakland.....		28,100
F. D. Vezev & Sons, Oakland.....		28,158
Walter Sorensen, Oakland.....		28,195
Melrose Steel Co., Oakland.....		28,948

Bids held under advisement.

GOVERNMENT WORK AND SUPPLIES

HAWAII.—Requests by territorial departments of Hawaii for public improvements to be included in the 1931 Loan Fund Bill, now before Governor Lawrence M. Judd for consideration, total \$2,910,000. The major items for which requests for appropriation have been made are as follows:

New buildings for the University of Hawaii, \$550,000.

Improvements to Nawiliwili harbor \$625,000.

Development of airports, \$300,500.

Board of agriculture and forestry buildings and equipment for the bureau of plant inspection and new site, \$70,000.

Department of public works, new tax office, being an addition to the territorial building, \$105,000.

Kapuaia building, including completion of the basement and new morgue, \$17,500.

Board of industrial schools, two new cottages for the Maunawili training school for girls, \$128,000 or \$64,000 for each cottage.

Board of health, for two wings on wards for violent patients, territorial hospital, Kaneohe, \$34,000.

Two wards for convalescent patients, \$70,000.

Three new wards to replace wards of frame construction, built for emergency purposes, \$90,000.

Department of public instruction, territorial normal and training school, administration auditorium, \$200,000.

Science and vocational arts building, \$100,000.

Elementary training school, \$100,000.

BOARD OF HARBOR COMMISSIONERS

Repairs and reconstruction of Pier No. 7, Honolulu, \$180,000.

Reconstruction of Pier No. 6, Honolulu, \$60,000.

Shed on Pier No. 2, Honolulu, \$50,000.

Extensions to Honuapo wharf, Hawaii, \$75,000.

Conveyer system on Pier No. 1, Kahului, \$40,000.

Breakwater at Kalaupapa, \$15,000.

Dredging entrance to Kewalo basin, Honolulu, \$50,000.
 Retaining wall, Kewalo, \$20,000.

SOLANO COUNTY, Cal.—Until Dec. 8, 3 F. M., under Circular Proposal No. 31-148, Specifications 2529, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, to raise existing levee along east and south boundaries of the Liberty Farms Project No. 2, located southerly of Yolanda Station on the Sacramento Northern Railroad, involving approximately 380,000 cu. yds. Further information obtainable from above.

HOOVER DAM—See "Reservoirs & Dams" this issue. Specifications for Boulder Dam to be available to contractors early next month.

QUARRY HEIGHTS, C. Z.—Until Nov. 29, new bids will be received by the Department Quartermaster, Panama Canal Dept., Quarry Heights, C. Z., for constructing four field officers' quarters, 32 company officers' quarters, 27 duplex noncommissioned officers' quarters (54 sets of quarters) and 1 bachelor officers' quarters (16 apts.), two 110-men air corps barracks and two 200-men air corps barracks, including town site grading involving earth and rock excavation, and the roads, walks, water lines, sewers, duct lines, drainage, etc., in connection with the buildings at Albrook Field, C. Z. Bids previously received on this project, published in our issue of November 5, page 5, were rejected. Plans obtainable from above on deposit of \$50, returnable.

CORVALLIS, Ore.—Following is a partial list of prospective bidders to erect postoffice at Corvallis, bids for which will be opened by the Supervising Architect, Treasury Department, Washington, D. C., Dec. 12:

W. M. Lundberg, Railway Exchange, St. Louis.

Wm. MacDonald Const. Co., Syndicate Trust Bldg., St. Louis.

Field-Martin Const. Co., 720 S 6th St., Minneapolis, Minn.

Chas. Weltz's Sons, 713 Mulberry St., Des Moines, Iowa.

W. D. Lovell, 1415 8th St. S. E., Minneapolis, Minn.

Walter Petersen, Omaha, Neb.

Ring Const. Co., Wesley Temple Bldg., Minneapolis, Minn.

Jas. Devault, Massillon Rd., Canton, Ohio.

Hallbauer-La Bahn, Inc., 844 Rush St., Chicago.

G. F. Campbell Bldg. Co., California Bank Bldg., San Diego, Calif.

Hansen and Rowland, Washington Bldg., Tacoma, Wash.

A. F. Mowat, McDowell Bldg., Seattle, Wash.

Baker Const. Co., Multnomah Hotel, Portland, Ore.

Roy O. Powers, 334 Worcester Bldg., Portland, Ore.

J. A. Moraw & Owens Co., Chicago.

Quinn Const. Co., Box 1107 Klamath Falls, Ore.

Phelps-Drake Co., Inc., Minneapolis, Minn.

Bartleson & Ness, 6824 17th St., N. E., Seattle, Wash.

L. W. Hancock, Louisville, Ky. (general contract)

English Const. Co., Washington.

Ward & Ward, Peoples Exchange Bank Bldg., Charleston, W. Va.

Ralph S. Herzog, 10 S 18th Street, Philadelphia.

SEATTLE, Wash.—Following is a partial list of prospective bidders to erect boiler plant at Seattle, bids for which will be opened by the Bureau of Yards and Docks, Navy Department, Washington, D. C., Nov. 3, under Specification No. 6297:

Wm. Bayley Co., 1027 I St. N. W., Washington.

Detroit Steel Products Co., 712 Barr Bldg., Washington.

W. P. Thurston Co., Inc., P. O. Box 2085, Richmond, Va.

Truscon Steel Co., Washington.

Newport Contracting & Engineering Co., Lee Hall, Va.

Plans Being Completed.

CHAPEL \$40,000 Appropriated

SAN FRANCISCO. Presidio Reservation.

One-story reinforced concrete or hollow tile chapel, 70x47 ft., seating 200; Mission style, tile roof.)

Owner—United States Government.

Architect—Constructing Quartermaster, Fort Mason, San Francisco.

Bids will be taken in one week or ten days.

Contract Awarded.

GARAGE Cont. price, \$4018

LIVERMORE, Alameda Co., Cal. U. S. Veterans' Hospital Grounds.

Construct six 2-car garages and one 1-car garage (hollow tile construction).

Owner—United States Government.

Architect—Supervising Superintendent of Construction, U. S. Veterans' Hospital, Palo Alto.

This work consists of excavating, concrete floor, wall construction consisting of either 8-in. reinforced concrete, 8-in. concrete blocks, or 6-in. hollow tile, carpentry, millwork, hardware, built-up roofing, flashing, painting, glazing, stuccoing and finished grading.

Contractor—A. Frederick Anderson, 1093 Longridge Road, Oakland.

HAWTHORNE, Nev.—As previously reported, bids will be asked shortly by Bureau of Yards and Docks, Navy Department, Washington, D. C., under Spec. No. 6125, in connection with mine filling plant for the Naval Ammunition Depot at Hawthorne, Nev.

SAN FRANCISCO.—Until Nov. 24, 11 A. M., bids will be received by Constructing Quartermaster, Ft. Mason, to furnish and install window shades in Wards Nos. 5, 22 and 24 at Letterman General Hospital. Specifications obtainable from above.

See call for bids under official program.

SAN FERNANDO, Cal.—Following is a complete list of the bids received by Supervising Superintendent of Construction, U. S. Veterans' Hospital, Palo Alto, for installing quarry tile floors and base in Buildings Nos. 1, 2, 5 and 6 at U. S. Veterans' Hospital at San Fernando. This project involves removal of cement floor topping and base, equipment, etc., and prepare floors and walls to receive new quarry tile floors and base in kitchens, preparation rooms, store rooms, etc.

Alt. No. 1, deduct for omitting certain tile.

California Marble & Tile Co., 3806 Beverly Blvd., Los Angeles, \$6400; (1) \$1180.

Art Tile & Mantel Co., San Francisco, \$6880; (1) \$378.

Musto-Keenan Co., Los Angeles, \$7661; (1) \$1312.

Los Angeles Tile & Marble Co., Los Angeles, \$7861; (1) \$1226.

L. F. Haskins Co., Los Angeles, \$7899; (1) \$1246; (Italian) \$8215; (1) \$1300.

Continental Marble & Tile Co., Los Angeles, \$8147; (1) \$1467; (Italian) \$8852; (1) \$1542.

Dolmage Tile Co., Los Angeles, \$8700; (1) \$1300.

Berger Eldridge Co., Los Angeles, \$8321; (1) \$1532.

L. A. Rose Co., Los Angeles, \$11,764; (1) \$964.

Bids referred to Washington for award.

HAWTHORNE, Nevada.—Bureau of Yards and Docks, Navy Department, under Specification No. 6319, rejects bids to erect greenhouses at Naval Ammunition Depot and the construction will probably be done by force account. Bids received follow:

Item 1, work complete; 2, ded. per sq.

Schuler & McDonald, Inc. 1723 Webster St., Oakland, Calif., Item 1, \$8,-34; 2, \$4.

Thos. Haverly Co., 316 E 8th St., Los Angeles, Calif., Item 1, \$8,530; 2, \$4.

Dayton Greenhouse Mfg. Co., Dayton, Ohio, Item 1, \$8,985; 2, \$1,375.

English Const. Co., Washington, Item 1, \$9,900; 2, \$2.

Mitty Bros. Const. Co., Los Angeles, Calif. Item 1, \$9,975; 2, \$4.30.

R. L. Bowman, 4552 Beverly Blvd., Los Angeles, Calif., Item 1, \$10,975; 2, \$150.

The work will involve furnishing and erecting a structure, 18 by 75 ft. and includes concrete foundations, plant and work benches, plumbing, heating and lighting.

PALO ALTO, Santa Clara Co., Cal.—Geo. B. Moore, 531 Stanford Ave., Palo Alto, at \$824, awarded contract by Supervising Superintendent of Construction, U. S. Veterans' Hospital, Palo Alto, to construct and finish complete rest room addition to Laundry Building No. 219 at Veterans' Hospital, Palo Alto.

SAN FRANCISCO—Constructing Quartermaster, Fort Mason, is completing plans for electric feeder line at Letterman General Hospital. Bids will be asked shortly.

SACRAMENTO, Cal.—Until Nov. 28 3 P. M., bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, to furnish and deliver under Order No. 2652, 1,500 tons rip-rap stone for windmills. Further information obtainable from above.

WASHINGTON, D. C.—Bids are being received by Bureau of Supplies & Accounts, Navy Department, Washington, D. C., to furnish and deliver as noted in the following schedules, further information being available from the Navy Department Office, Bids Open Dec. 2.

Puget Sound, 4 electric driven winches and spares, sch. 4494.

San Francisco, 2co 2 transfer units, electrically operated, sch. 4507.

Mare Island, 167 aluminum chairs, sch. 4506.

Mare Island and Puget Sound, telegraph and tell-tale transmitters, indicators and spare parts, sch. 4473.

Mare Island and Puget Sound, steel forgings, sch. 4505.

All yards, carpets and rugs, sch. 4518.

San Diego, 6 tractors, sch. 4529.

San Diego, 1 motor-driven steel forming press, sch. 4530.

Puget Sound, 34,000 red cedar shingles, sch. 4538.

Mare Island, 1940 ft. cast iron soil pipe and Puget Sound, 450 ft. do, sch. 4539.

Western yards, insulating tape, sch. 4540.

Western yards, portable electric drills and grinders, sch. 4542.

Mare Island, 164 pressure lubricating guns, sch. 4544.

San Diego, 24 metal propeller hubs, sch. 4568.

Mare Island, 1150 lbs. boat facings, sch. 4547.

San Diego, and Mare Island, 800 yds. cocoa matting, sch. 4535.

San Francisco, 1 electrical testing bench machine, lathe and mica under cutter, sch. 4533.

Mare Island, beech, birch and maple,

boat knees, poplar, ligum vitae, temple wood, sch. 4531.

Plans Being Approved.

GATES, ETC. \$17,000 Available
SAN FRANCISCO. Presidio (National Cemetery).

Granite and bronze gates, urns, etc., at entrance to National Cemetery.

Owner—United States Government.

Architect—Constructing Quartermaster, Fort Mason, San Francisco.

Plans have been sent to Washington for approval. Bids will probably be called for granite construction and Indiana limestone.

HALLS AND SOCIETY BUILDINGS

Plans Being Prepared.

MEMORIAL HALL. Cost, \$10,000
LINCOLN, Placer Co., Cal.

American Legion Memorial Hall.

Owner—County of Placer.

Architect—Starks & Flanders, Forum Bldg., Sacramento.

Sub-Contracts Awarded.

BUILDING. Cont. Price \$24,943
SAN JOSE, Santa Clara Co. Cal. W. Santa Clara Street.

One and one-half-story steel frame and brick recreation building.

Owner—C. H. Kamm.

Architect—W. H. Weeks, 111 Sutter St., San Francisco; 1736 Franklin St., Oakland, and Bank of Italy Bldg., San Jose.

Lessee—O. J. Forman, San Jose.

Contractor—C. N. Swensen, 355 Stockton Ave., San Jose.

Excavating—Earl Heple, 494 Delmas St., San Jose.

Electrical Work—Guilbert Bros., 236 W. Santa Clara St., San Jose.

Plumbing—H. J. Pasco, 208 W. Santa Clara St., San Jose.

Roofing—W. J. Porter, 473 West San Carlos St., San Jose.

Glass and Glazing—Cobbledick-Kibbe Glass Co., 666 Howard St., San Francisco.

Painting—Bud Gallichotte, 117 S-3rd St., San Jose.

Plastering—San Caccamo, 757 W. San Carlos St., San Jose.

Reinforcing Steel and Steel Sash—Truscon Steel Co., Call Bldg., San Francisco.

Miscellaneous and Ornamental Iron—R. Hellwig Iron Works, 407 Vine St., San Jose.

Masonry—J. T. Baker, 1795 Lexington St., Santa Clara.

Plans Being Figured—Bids Close Nov. 24, 3 P. M.

STORES. Cost, \$—
SAN JOSE, Santa Clara Co., Cal.

Seventh and Julian Sts.

Two-story reinforced concrete stores and lodge building.

Owner—Modern Order of Bucks (Colored Organization).

Architect—Chas. McKenzie, Twohy Bldg., San Jose.

Preparing Plans.

CLUB. Cost, \$300,000
LONG BEACH, Los Angeles Co., Cal.

Cedar Ave. near Ocean Blvd.

Three-story and basement reinforced concrete club (80x150 ft.)

Owner—Long Beach B. P. O. Elks, No. 888.

Architect—W. Horace Austin, Pacific Southwest Bank Bldg., L. A.

Contract Awarded.

MEMORIAL BLDG. Cost, \$60,000
LIVERMORE, Alameda Co., Cal. SE Fifth and L Sts.

One-story reinforced concrete Veterans' Memorial Building (Spanish type).

Owner—County of Alameda.

Architect—H. H. Meyers, Kohl Bldg., San Francisco.

Contractor—N. H. Sjoberg & Son, Call Bldg., San Francisco.

Following is a complete list of bids:

N. H. Sjoberg & Son, S. F. \$50,885

J. J. Groden & Co., Alameda 51,990

N. W. Place, Oakland 51,550

The Milton Co., Mt. View 52,053

E. T. Letter & Son, Oakland 52,837

E. T. Lesure, Oakland 53,020

David Nordstrom, Oakland 53,183

F. Pothwell, Oakland 53,483

C. A. Bruce, San Francisco 54,386

F. J. Westlund, Oakland 56,740

All alternates were accepted.

Preparing Working Drawings.

MEMORIAL BLDG. Cost, \$65,000
HAYWARD, Alameda Co., Cal (Kolze Property) Main Street.

One-story reinforced concrete Veteran's Memorial Building. (Spanish Type).

Owner—County of Alameda.

Architect—Henry H. Meyers, Kohl Bldg., San Francisco.

HOSPITALS

Preparing Working Drawings.

HOSPITAL. Cost, \$50,000
YUBA CITY, Sutter Co., Cal. NE Plumas and Alturas Sts.

One-story brick and stucco hospital (12 to 30 bed capacity).

Owner—A. A. King, Sacramento.

Architect—Homer B. A. Pratt, 4648 T St., Sacramento.

Construction will be handled by owners who will take sub-bids within a few weeks.

Plans To Be Prepared.

HOSPITAL. Cost, \$—
SAN FRANCISCO. California and Maple Sts.

Class A fireproof hospital (100 beds).

Owner—Homeopathic Foundation of California, 391 Sutter St. (Hahnenman Hospital).

Architect—Not Selected.

More definite information will be given shortly.

Sub-Contracts Awarded.

HOME. Cost, price, \$34,100
SAN LUIS OBISPO, San Luis Obispo Co., Cal. Johnson Avenue.

Erick Detention Home (frontage 132 ft. with central section forward, 28 ft. with rear wing 36x36 ft.; tile on sloping roofs, asbestos shingles on flat roofs; and one-story frame health cottage (ten rooms, separate dining room).

Owner—County of San Luis Obispo.

Architect—William Mosser Company, Monadnock Bldg., San Francisco.

Contractor—H. H. Larsen, 64 South Park, San Francisco.

Sheet Metal—E. M. Payne, \$40 Montecito, San Luis Obispo.

Steel Sash—U. S. Metal Products Co., 330 10th St., San Francisco.

Grading—Sandercock Company, San Luis Obispo.

Rock, Sand, Gravel and Cement—Pacific Coast Coal Co., San Luis Obispo.

San Francisco.—Joseph F. Hotter, 1540 Fillmore St., San Francisco, at \$245, under Proposal No. 630, awarded contract by City Purchasing Agent to furnish and install window shades (Linotex brand) in Ward Bldg. at Laguna Honda Home.

San Francisco.—Board of Supervisors has appropriated \$7500 to finance purchase of a site at Onondaga and Alameda avenues on which will be erected an emergency hospital.

Plans Completed.
ADDITIONS Cost, \$160,000.
SAN FRANCISCO. Potrero Ave., bet. 29th and 23rd Sts (San Francisco Hospital).
 (Class A additions on roof of four ward buildings (brick walls, tile roof).
Owner—City and County of San Francisco.
Architect—Alfred I. Coffey and Martin J. Rist, associated, Phelan Bldg., San Francisco.

SAN FRANCISCO—Until December 3, 2:30 P. M., bids will be received by Sid J. Hester, secretary, Board of Public Works for tile work in the Infirmary Kitchen at the Laguna Honda Home. Estimated cost \$2,000. Plans obtainable from Bureau of Architecture, 2nd floor, City Hall, on deposit of \$5, refundable.

Preparing Preliminary Plans.
INSTITUTE BLDG. Cost, \$400,000
SAN FRANCISCO.
 Class A reinforced concrete psychopathic institute building.
Owner—City and County of San Francisco.
Architect—Alfred I. Coffey, Phelan Bldg., San Francisco.

Preparing Preliminary Plans.
INSTITUTE BLDG. Cost, \$400,000
SAN FRANCISCO. Potrero Ave. and Twenty-first St.
 Class A concrete Cancer Institute building.
Owner—City and County of San Francisco.
Architect—Alfred I. Coffey, Phelan Bldg., San Francisco.

Plans Being Figured—Bids Close December 16, 2 P. M.
HOSPITAL Cost, \$114,000
STOCKTON. San Joaquin Co., Cal.
 State Hospital Grounds.
 Two-story and part basement reinforced concrete hospital and two-story reinforced concrete industrial building.
Owner—State of California.
Architect—State Department of Public Works, Division of Architecture, Geo. B. McDougall, State Architect, Public Works Bldg., Sacramento.

Hospital building will be of reinforced concrete with tile and solid plaster partitions, wood roof construction and tile roof and a total floor area of 14,500 square feet.

The industrial building will be of concrete construction, wood and concrete second floor construction, steel roof construction and a total floor area of approximately 6150 sq. ft.

Bids are being taken for a general contract with separate bids for mechanical work, including plumbing, heating and electrical work. Separate bids will be received for electrical work and for plumbing and heating. Combined bids will also be received for all three branches of the work.
 See call for bids under official proposal section in this issue.

HOTELS

Plans Being Prepared.
REMODELING Cost approx. \$75,000
DEL MONTE. Monterey Co., Cal. Hotel Del Monte.
 Remodel interior of hotel (refurnishing redecorating, new fireplaces, add porch, etc.; 1st floor).
Owner—Del Monte Properties Co. (S. F. B. Morse, president).
Architect—Lewis P. Hobart, Crocker Bldg., San Francisco.
Contractor—Dowsett - Ruhl Co., Russ Bldg., San Francisco.
Interior Decorator—Mrs. Francis McComas, Andalusia Road, Pebble Beach.

Preliminary Plans Being Prepared.
HOTEL Cost, \$—
CAPITOLA. Santa Cruz Co., Cal.
 Six-story hotel (80 rooms) (type of construction not determined).
Owner—C. E. Blanchard, Capitola.
Architect—A. W. Story, Pajaro Valley Bank Bldg., Watsonville.
 General Contract Awarded.
APARTMENTS Cost, \$35,000
SAN FRANCISCO. 660 Bush Street.
 After apartments for hotel.
Owner—Progressive Trading Co., Matson Building.
Engineer—John G. Little & Co., 251 Kearny St.
Contractor—Anderson & Ringrose, 320 Market Street.

Segregated Bids Being Taken.
REMODEL Cost approx. \$25,000
SAN JOSE. Santa Clara Co., Cal.
 First and San Antonio Sts.
 Remodel 4-story and basement concrete hotel (interior remodeling and furnishings and exterior painting).
Owner—Montgomery Hotel.
 Plans by individual contractors.
Mgr. of Constr.—J. Horowitz, Montgomery Hotel, San Jose.
 Each sub-contractor will plan his own work with J. Horowitz acting as manager of construction.

Preparing Working Drawings.
HOTEL Cost, \$—
SALINAS. Monterey Co., Cal.
 Three-story steel frame and concrete Class A hotel (38 rooms).
Owner—Withheld.
Engineer—James Smith, 251 Kearny St., San Francisco.
 Plans will be ready for bids in about three weeks.

Completing Plans.
HOTEL Cost, \$100,000
CALEXICO. Imperial Co., Cal.
 Three-story and basement frame and stucco hotel with tile roof (80 rooms).
Owner—Will Conway.
Architect—Merrill & Wilson, Petroleum Security Bldg., Los Angeles.

Sub-Bids Wanted.
HOTEL Cost, \$—
SANTA MONICA. Los Angeles Co., Cal. Ocean Avenue.
 Eight-story and basement reinforced concrete hotel (60x100 ft.)
Owner—Windemere Hotels Corp., Ltd.

Architect—M. Eugene Durfee, Bay Cities Guaranty Bldg., Santa Monica.
Contractor—Barnett Shapiro Constr. Co., Signal Oil Bldg., L. A.

Plans To Be Prepared.
STORE & HOTEL Approx. \$25,000
BAY POINT. Contra Costa Co., Cal. Main Street.
 Three-story brick store and hotel.
Owner—W. S. Van Winkle, 880 Bay View, Bay Point.
Architect Not Selected.
 Architect will not be selected before January 1.

POWER PLANTS

OAKLAND. Cal. — Following bids taken under advisement by city council to furnish and install conduit for traffic signal cable:
 A. C. Rice, Oakland, 1½-inch, \$.38; 2-in., \$.97.
 Butte Electric & Mfg. Co., San Francisco, 1½-in., \$.80; 2-in., \$.833
 City Improvement Co., Oakland, 1½-in., \$1.10; 2-in., \$1.14.
 R. Flatland, San Francisco, 1½-in., \$.84; 2-in., \$.70.

SANTA CRUZ. Santa Cruz Co., Cal. — Coast Counties Gas and Electric Co. plans expenditure of \$500,000 in the construction of new transmission lines, erection of substations and installation of equipment.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

SAN FRANCISCO—Board of Supervisors has appropriated \$5000 to finance purchase of 500 opera chairs for Municipal (Exposition) Auditorium.

Plans Being Figured—Bids Close Dec. 8, 10 A. M.
NEW CELLS Cost, \$80,000
SANTA BARBARA. Santa Barbara Co., Cal. Santa Barbara County Jail.
 Installation of 28 new cells.
Owner—County of Santa Barbara.
Architect—Wm. Mooser, Jr., Nevada Bank Bldg., San Francisco.
 Each cell will accommodate four prisoners.

CALIFORNIA—Budget requests for the coming two years for the San Quentin and Folsom State prisons will run in the neighborhood of \$6,000,000.
 San Quentin Prison is seeking a total of \$4,334,179 for the next biennium.

ORNAMENTAL WIRE AND IRON WORK

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Of this amount, \$2,816,170 is for support and \$1,518,090 for permanent improvements, itemized as follows: Purchase of additional land, \$125,000; new cell blocks, \$300,000; guards' cottages, \$50,000; industrial building, \$270,000; warehouse, \$40,000; jute mill building, \$275,000; new prison wall, \$58,000; equipment of laundry building, \$51,000; solitary confinement building, \$50,000; and minor construction and improvements, \$200,000.

Folsom Prison's request is for \$1,736,000 for the present biennium. Support it charged at \$1,236,000 and permanent improvements, \$500,000. The improvements will include guards' cottages, \$25,000; additional 400-cell block \$200,000; kitchen, commissary and cold storage, \$100,000; cannery and equipment, \$15,000; recreation hall for guards outside of walls, \$10,000; remodeling old building outside of walls, formerly designed for criminal insane, into a farm service building, \$50,000; minor construction and improvements \$100,000.

Plans Being Figured—Bids Close Nov. 25, 7:45 P. M.

WIRING & FIXTURES Cost, \$—
EUREKA, Humboldt Co., Cal. Seventh and F Streets.

Construct revised electric wiring system and furnish and install electric lighting fixtures in library.
Owner—City of Eureka (Eureka Free Library).

Architect—Franklin T. Georgeson, 537 G St., Eureka.

Specifications obtainable from the architect. Bids will be received on the above date by Walter J. Crane, clerk, Board of Trustees, Eureka Free Library.

OROVILLE, Butte Co., Calif.—City council rejects bids to furnish site and erect firehouse building. Bids were: Wm. J. Shalz, Chico, \$46,680; J. L. Fry, Oroville, \$14,355; W. L. Chatterton, Sacramento, \$14,741.

SAN MATEO, San Mateo Co., Cal.—City Clerk E. W. Foster will ask bids at once to paint exterior front of city hall in B St., an iron fence along El Camino Real and one building at the Corporation Yard in East San Mateo. The cost is estimated at \$400.

RIVERSIDE, Cal.—Riverside County Supervisors rejected all bids received November 2nd for furnishing and installing jail equipment and new bids will be received until 10:00 A. M., Dec. 8th. Provisions will be made for 120 prisoners. G. Stanley Wilson, architect, 3646 W. Ninth St., Riverside.

RESIDENCES

Construction Postponed Indefinitely.
RESIDENCES Cost, \$25,000 each
SAN FRANCISCO. Seaclyff near 26th Avenue.

Two two-story and basement frame and stucco residences

Owner—Allen & Co., 168 Sutter St., San Francisco.

Architect—Hyman & Appleton, 68 Post St., San Francisco.

Sub-Contracts Awarded.

RESIDENCE Cost, \$25,000
SAN FRANCISCO. Camino Del Mar and Lake St.

Two-story and basement frame and stucco residence (10 rooms and 5 baths).

Owner—Charles J. Carter, 531 Hyde St., San Francisco.

Architect—Ed. Musson Sharpe, 525 Market St., San Francisco.

Agent—Allen & Co., 163 Sutter St., San Francisco

Concrete—D. Seghieri & Co., 35 Cook St., San Francisco.

Lumber—Sudden Lumber Co., Evans and Quint Sts., San Francisco.

Segregated bids are being taken on other portions of the work.

Preparing Plans.

RESIDENCE Cost, \$20,000
SANTA BARBARA, Santa Barbara Co., Cal.

Two-story and basement frame and stucco residence (11 rooms).

Owner—Lloyd Aspenwall.

Architect—Wm. McCay, Braley Bldg., Pasadena.

Construction Postponed Indefinitely.

RESIDENCE Cost, \$28,000
SAN JOSE, Santa Clara Co., Cal. The Alameda.

Two-story and basement frame and stucco residence (11 rooms).

Owner—Richard Bressanl, Bank of Italy Bldg., San Jose.

Architect—Herman Krause, P. O. Box 733, San Jose.

Bids Opened.

RESIDENCE Cost, \$18,000
PIEDMONT, Alameda Co., Cal. Requa Highlands.

Two-story and basement frame and stucco residence (12 rooms and 3 baths).

Owner—R. W. Breuner, 4 Craig Ave., Piedmont.

Architect—Miller and Warnecke, Financial Center Bldg., Oakland.

Following is a complete list of bids:

T. D. Courtright, 5098 Manila, Oakland	\$12,776
Ben Kopf, Oakland	13,389
B. F. Woodley, Oakland	13,473
Jensen & Pedersen, Oakland	13,495
Thomas Furlong, Oakland	14,400
G. H. Marchant, Oakland	14,875
Chas. Bardwell, Oakland	16,572

Bids held under advisement.

Owner Taking Sub-Bids

RESIDENCE Cost, \$13,000
MORGAN HILL, Santa Clara Co., Cal. Two-story and basement frame and stucco residence (8 rooms).

Owner—R. H. Henoken, Morgan Hill. Architect—A. W. Story, Pajaro Valley Bank Bldg., Watsonville.

Contracts Awarded.

RESIDENCE Cost approx. \$25,000
SAN FRANCISCO. Junipero Serra Blvd. and Mercedes St.

Two-story and basement frame and stucco residence (10 rooms and 3 baths; tile roof).

Owner—Howard E. Mohr, 116 9th St. Architect—Martin Sheldon, Monadnock Building.

Plumbing—H. Williamson, 1738 Howard Street.

Sheet Metal—New Mission Sheet Metal Works, 3401 Mission St.

Lumber—Christensen Lumber Co., 6th and Hooper Sts.

Electric Wiring—Eureka Electric Co., 3469 Mission St.

Tile—Progressive Tile Co., 1216 Powell Street

Bids are wanted by owner on roofing tile.

Sub-Bids Being Taken.

RESIDENCES Cost \$10,000-\$11,000
SAN FRANCISCO. San Aliso St. S. Harlan Way.

Two two-story and basement frame and stucco residences (7 rooms ea)

Owner and Builder, A. J. Herzog, 1945 Ocean Ave., San Francisco.

Plans by D. E. Jaekle, Call Bldg., San Francisco.

Contract Awarded.

RESIDENCE Cost, \$26,000
ST. HELENA, Napa Co., Cal.

Two-story and basement frame and stucco residence (11 rooms and 4 baths).

Owner—Albert Carpe, St. Helena.

Architect—John Bauer, 251 Kearny St., San Francisco

Contractor—James Bitcon, 628 Louisiana St., Vallejo.

Plans Being Figured—Bids Close Nov. 25, 5 P. M.

RESIDENCE Cost, \$40,000
HILLSBOROUGH, San Mateo Co., Cal. Two-story and basement frame and brick veneer residence (14 rooms, 5 baths).

Owner—Charles Cherry, 111 Sutter St., San Francisco.

Architect—J. K. Ballantine, Jr., 137 Harlan, San Francisco.

Following contractors will figure the plans:

D. B. Gladstone, 557 Market Street, San Francisco.

George Arthur, 16 W Street Inez St., San Mateo.

Taylor & Jackson, 291 Tehama St., San Francisco.

A. H. Feasey, 212 Clara St., San Francisco.

Henry B. Post, 1330 Webster Street Palo Alto.

Bids are being taken from the selected list named above.

Sub-Bids Being Taken.

RESIDENCE Cost, \$—
HILLSBOROUGH, San Mateo Co., Cal.)

Two-story frame and stucco residence Owner—Major A. J. Watson, 165 Warren Road, San Mateo.

Architect—E. M. Sharpe, 525 Market St., San Francisco.

Contractor—Oscar L. Cavanaugh, 432 Occidental Ave., San Mateo.

Contract awarded on cost plus basis.

Plans Being Figured.

RESIDENCE Cost, \$60,000
PALM SPRINGS, Riverside Co., Cal.

Two-story and basement frame and stucco residence with tile roof.

Owner—Mr. Helgoh.

Architect—W. C. Tanner, 407 N. Orange Drive, Los Angeles.

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Contract Awarded.

RESIDENCE Cost, \$11,300
PALO ALTO, Santa Clara Co., Cal.
South Court.

Two-story and basement frame and stucco residence.

Owner—Mrs. Louise Baker Short.
Architect—Chas. K. Sumner, 57 Post St., San Francisco.

Contractor—E. J. Schmalling, 863 Melville Ave., Palo Alto.

Contract Awarded.

RESIDENCE Cont. price, \$4975
NEAR SARATOGA, Santa Clara Co., Cal. Quito Road.

One-story and basement frame and stucco residence (5 rooms).

Owner—L. H. Prosetti.
Architect—Wolfe and Higgins, Realty Bldg., San Jose.

Contractor—C. F. Keesling, 798 Coe St., San Jose.

Segregated Bids Being Taken.

RESIDENCE Cost, \$10,000
SAN FRANCISCO Forest Hill.

Two-story and basement frame and stucco residence (6 rooms and 2 baths).

Owner—John Gould.
Architect—Crim, Resing & McGuinness, 525 Market St., San Francisco.

Contract Awarded.

RESIDENCE Cost, \$16,500
SAN FRANCISCO St. Francis Wood.

Two-story and basement frame and stucco residence (12 rooms, three baths).

Owner—T. Trevorrow (Allen and Co.) 168 Sutter St.

Plans by D. E. Jackle, Cal Bldg.
Contractor—A. J. Herzog, 1945 Ocean Avenue.

Oil burning system, full tile roof, all colored tile kitchens and bath rooms oak floors throughout, hardwood trim, electric refrigeration, sweep chutes, etc.

Preparing Working Drawings.

RESIDENCE Cost, \$300,000
GOLETA, Santa Barbara Co., Cal.

Reinforced concrete residence.

Owner—Mrs. S. M. Spaulding, Tecolote Calif.

Architect—William Mooser Company, 681 Market St., San Francisco.

Concrete work will be started very shortly by day's work.

Preliminary Plans Being Prepared.

RESIDENCES Cost each \$15,000
SAN FRANCISCO Monterey Blvd. bet. San Alejo and Westgate.

Two 2-story and basement frame and stucco residences (3 rooms each).

Owner and Builder—Stoneson Bros. & Thorinson, 279 Yerba Buena Ave.
Architect—Chas. Strothoff, 2274 15th Street.

Contract Awarded.

RESIDENCE Cost, \$—
WATSONVILLE, Santa Cruz Co., Cal.

Two-story and basement frame and stone veneer residence (12 rooms and 4 baths).

Owner—H. S. Fletcher, 322 Union St., Watsonville.

Plans by Mr. Bigland.
Contractor—Frederick Bigland, 8th & Mt. View Ave., Carmel.

Contract Awarded.

RESIDENCE Cost, \$—
SAN FRANCISCO St. Francis Wood.

Two-story frame and stucco residence

Owner—W. O. Granecher, 60 Ventura Ave., San Francisco.

Architect—Masten & Hurd, 210 Post St., San Francisco.

Contractor—Henry Papenhausen, 595 Victoria St., San Francisco.

To Be Done By Day's Work By Owner

RESIDENCE Cost, \$10,000
BERKELEY Alameda Co., Cal. No. 815 San Diego Road.

One-story and basement frame and stucco residence (7 rooms).

Owner and Builder—Ray H. Norheim, 1207 Bonita Ave., Berkeley.

Plans by Owner.

Contract Awarded.

RESIDENCE Cont. Price, \$12,776
PIEDMONT, Alameda Co., Cal. Requa Highlands.

Two-story and basement frame and stucco residence (12 rooms and 3 baths).

Owner—R. W. Breuner, 4 Craig Ave., Piedmont.

Architect—Miller & Warnecke, Financial Center Bldg., Oakland.

Contractor—T. D. Courtwright, 509 S. Manila Ave., Oakland.

Contract Awarded.

RESIDENCE Cost, \$12,000
OAKLAND, Alameda Co., Calif. 906 Paramount Road.

Two-story and basement frame and stucco residence (8 rooms).

Owner—A. R. Lapham, 947 Hillcroft Circle, Oakland.

Architect—None.
Contractor—Theo. H. Lapham, 546 Kenmore Ave., Oakland.

Sub-Bids Being Taken.

RESIDENCES Cost, \$9000 each
SAN FRANCISCO San Aliso St. S. Darien Way.

Two one-story and basement frame and stucco residences (6 rooms and social hall, 15x30 feet).

Owner and Builder—A. J. Herzog, 1945 Ocean Ave., San Francisco.

Plans by D. E. Jackle, Cal Bldg., San Francisco.

SCHOOLS

Plans Being Figured—Bids Close Nov. 26, 10 A. M.

ADDITION Cost, \$25,000
RICHMOND, Contra Costa Co., Cal. 41st St. bet. Roosevelt and Clinton Ave.

Six-room addition to Woodrow Wilson School (brick construction, slate roof).

Owner—Richmond School District, W. T. Helms, clerk.

Architect—J. T. Narbett, 466 31st St., Richmond.

Mechanical Engineers—Leland & Haley, 58 Sutter St., San Francisco.

Certified check 10% payable to W. T. Helms, clerk, Richmond School District, required with bid. Plans obtainable from the architect on deposit of \$25, for general plans and \$5 for heating and ventilating plans obtainable from the mechanical engineers.

Contract Awarded — Sub-Bids Being Taken

CONVENT Cost Approx. \$70,000
SAN FRANCISCO Ashbury Street near Waller Street.

Four-story concrete convent and 2-story addition to present school.

Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.

Architect—H. A. Minton, 525 Market St., San Francisco.

Contractor—David Paganini, 519 California St., San Francisco.

Rev. John Butler is the pastor.

Plans Being Completed.

SCHOOL Cost approx. \$400,000
OAKLAND, Alameda Co., Cal. 45th Ave. and Foothill Blvd. (Fremont High School Site).

Steel frame and concrete high school with tile roof.

Owner—City of Oakland School Dist. Architect—Charles W. McCall, 1404 Franklin St., Oakland.

Bids will be taken in one or two weeks.

Contract Awarded.

HEATING SYSTEM Cont. price, \$8147
ROSEVILLE, Placer Co., Cal.
Heating System.

Owner—Roseville Union High School District, E. C. Bedell, clerk.

Engineer—Albert A. Coddington, 22 Kearny St., San Francisco.

Contractor—D. P. Mulligan, Roseville

Plans Being Figured—Bids Close Nov. 28.

GYMNASIUM Cost, \$—
LOS ANGELES, Cal. Ninety-second and Hoover Streets.

Two-story class E brick and concrete school gymnasium.

Owner—Los Angeles City School Dist. Architect—J. P. Krempel and W. E. Erkes, Los Angeles.

Preparing Working Drawings.

SCHOOL Cost, \$250,000
ALTADENA, Los Angeles Co., Cal. Yake Ave. bet. Mendocino and Boston Sts.

Brick and reinforced concrete junior high school.

Owner—Pasadena City School District Architect—Marston & Maybury, 25 S. Euclid Ave., Pasadena.

Bonds Voted To Finance—Plans To Be Prepared.

SCHOOL Cost, \$100,000
SANTA MARIA, Santa Barbara Co., Cal. W-El Camino Real, bet. Lincoln and Thornburg Sts.

One-story brick or concrete school.

Owner—Santa Maria School District. Architect—Louis N. Crawford, Gibson-Drexler Bldg., Santa Maria.

Bonds were recently voted to finance this work which will comprise two structures, a main classroom and administration building containing 12 units. A domestic science building containing manual training shops, cooking rooms, etc., will be of frame and stucco.

Contract Awarded.

ADDITION Cost approx. \$7500
DAVIS, Col. Co., Cal.

Locker room addition to high school gymnasium.

Owner—Davis Union High School District, E. S. McFride, clerk, Davis.

Architect—Starks and Flanders, 714 Forum Bldg., Sacramento.

Contractor—E. M. McGuire, Davis.

Plans Being Completed.

SCHOOL Cost, \$650,000
SANTA BARBARA, Cal.

Two-story reinforced concrete school buildings (terra cotta, tile roof).

Owner—Santa Barbara Union High School District.

Architect—W. H. Weeks, 111 Sutter St., San Francisco.

Bids will be taken in two or three weeks.

There will be an administration and classroom building, gymnasium and a shop building; reinforced concrete construction with terra cotta tile roofing.

Commissioned To Prepare Plans.

EDUCATIONAL UNIT Cost, \$—
PORTERVILLE, Tulare Co., Cal. Educational unit, etc.

Owner—Porterville Methodist Church. Architect—Rollin S. Tuttle, Box C. Los Gatos.

Work comprises new educational unit in connection with the church plant in addition to remodeling the church proper. The educational unit is to contain 18 classrooms for junior and senior departments with facilities for about 750 pupils. Construction will be of brick, reinforced concrete or frame, depending upon the cost. Clark Standiford, 212 E Putnam Ave., Porterville, is chairman of the Building and Finance Committee.

Contract Awarded.

COLLEGE Cost, \$—
SANTA ROSA, Sonoma Co., Cal.
One-story brick academic building (9 classrooms, assembly hall and office).
Owner—Santa Rosa Junior College District.

Architect—W. H. Weeks, 111 Sutter St., San Francisco.
Landscape Architect—Howard Gilkey, Howden Bldg., Oakland.

Contractor—Louis Halvorsen, 128 Dutton Ave., Santa Rosa.

Following is a complete list of bids:
Louis Halvorsen, Santa Rosa.....\$37,839
Gaubert Bros., Oakland.....38,740
F. J. Gredem & Co., Alameda.....38,900
F. R. Siegrist Co., S. F.....40,470
The Minton Co., Mt. View.....40,604
W. L. Proctor, Santa Rosa.....41,051
N. H. Sjoberg & Son, S. F.....41,764
Petaluma Const. Co., Petaluma.....42,600
C. W. Shatto, Sebastopol.....42,925
E. T. Lesure, Oakland.....43,364
A. M. Hildebrand, Santa Rosa.....43,525
J. W. Cobby & Son, S. F.....43,974
Wallace Snelgrove, Richmond.....44,217
J. H. Johnson, San Francisco.....45,736
Albert Staton, Petaluma.....47,950

Prop. 1A and 3A were accepted. All heating bids were rejected. The lowest bid was submitted by the Ukiah Heating Co., Ukiah, at \$5,219.35. Plans will be revised and new bids advertised for shortly.

Bids Opened.

FIXTURES Cost, \$—
BERKELEY, Alameda Co., Cal. Ward St. Bld., California and Sacramento Streets.

Finish hardware and electric fixtures for Longfellow School.

Owner—Berkeley School Dist., Clara F. Andrews, secretary, Board of Education.

Architect—James W. Plachek, Merritt Bank Bldg., Berkeley.

Following is a complete list of bids:

Finish Hardware
Sunset Hardware Co., 2104 Shattuck Ave., Berkeley.....\$2,187
Associated Hardware Co., Oakland.....2,217
Berkeley Hardware Co., Berkeley.....2,358

Electric Fixtures
T. L. Rosenberg, 411 Webster St., Oakland.....\$1,145
Roberts Mfg. Co., Oakland.....2,025
Maxwell Hdwe. Co., Oakland.....2,225
Kofeld Mfg. Co., Oakland.....2,950
Chas. Duchmann, Oakland.....4,150
Bids held under advisement.

Plans Being Figured.

EQUIPMENT Cost, \$—
BERKELEY, Alameda County, Calif. Franklin School.

Furnish and install equipment for heating plant.

Owner—Berkeley Board of Education, Engineer—Frank Thomas, Supt. Bldg. & Grounds, Berkeley Public School District, Berkeley.

Contract Awarded.

SCHOOL Cost, \$—
LOWELL, Arizona.
Class B reinforced concrete and masonry grammar school (auditorium to seat 1000).

Owner—Lowell Grammar School District (C. E. Wittig, Clerk).
Architect—Lescher & Mahoney, First National Bank of Arizona Bldg., Phoenix.

Contractor—Robert E. McKee, El Paso Texas, & Los Angeles, at \$132,912.
Electric Work—New State Elec. Co., Phoenix, at \$355.

Painting—William Miller, Phoenix, at \$5131.

Plumbing, Heating and Ventilating—J. Knox Corbett Co., Tucson, at \$9500.

Plans Being Completed.

GYMNASIUM, ETC. Cost, \$—
MONTEREY, Monterey Co., Cal.

One-story reinforced concrete academic building and one-story reinforced concrete gymnasium with tile roof.

Owner—Monterey Union High School District.

Architect—Swartz & Ryland, Spaulzer Bldg., Monterey.

Bids Opened.

ENTRANCE Cost, \$—
SAN FRANCISCO.

Construct iron and glass entrance at west side of Grant school.

Owner—City and County of San Francisco, S. J. Hester, secretary, Bd. of Public Works.

Architect—Bureau of Architecture (C. H. Sawyer, chief), 2nd floor, City Hall.

Following bids received:

D. H. Clancy.....\$1,154
A. S. Gough.....1,320
F. C. Amoroso.....1,700

BANKS, STORES & OFFICES

Owner Taking Bids.

LUNCH ROOMS Cost, \$5000
OAKLAND, Alameda Co., Cal. 20th St. and San Pablo Ave.

Two one-story concrete and wood lunch rooms.

Owner—Kem Bemis, 1962 San Pablo Ave., Oakland.

Architect—Hardman & Russ, Berkeley Bank Bldg., Berkeley.

A group of similar buildings will be constructed at a later date.

Contracts Awarded.

REMODELING Cost, \$—
OAKLAND, Alameda Co., Cal. No. 3712 Broadway.

Remodel interior of store.

Owner—Mercantile Bldg. & Loan Association, 1447 Franklin St., Oakland.

Architect—W. W. Wurster, 260 California St., San Francisco.

Painting—W. Y. Bell, 4156 Greenwood St., Oakland.

Counter Work—Mullen Mfg. Co., 64 Raush St., San Francisco.

Inside Woodwork—W. C. Cone, 1744 Broadway, Oakland.

Plans Being Completed.

ADDITION Cost, \$25,000
SAN FRANCISCO. No. 468 Turk St.
One-story concrete addition to building.

Owner—Bell Bros., Mills Bldg., San Francisco.

Architect—O'Brien Bros. and W. D. Feugh, 315 Montgomery St., San Francisco.

Lessee—Hoover Sweeper Co., 626 Golden Gate Ave., San Francisco.

Contract Awarded.

STORE Cost, \$10,600
SALINAS, Monterey Co., Cal. N West Galban St. bet. Main and Lincoln Streets.

One-story reinforced concrete store.
Owner—Serafino Pla, 112 Main St., Salinas.

Architect—W. E. Huson, Monterey.
Contractor—H. D. Coon, Dolores and Alta Sts., Carmel.

Plans Completed.

STORES Cost, \$—
SANTA BARBARA, Santa Barbara Co., Cal. State St. (4 corners).

Four two-story Class C stores.

Owner—Fox West Coast Theatres.

Architect—Edwards & Plunkett, 20 E. Figueroa St., Santa Barbara.

Bids will be taken shortly.

Plans Being Completed.

ALTERATIONS Cost, \$25,000
SACRAMENTO, Sacramento Co., Cal. Ninth St. near K St.

Alterations and additions to one-story and basement brick store & bank.

Owner—Peoples Finance & Thrift Co., 1005 8th St., Sacramento.

Architect—Charles Dean, California State Life Bldg., Sacramento.

Bids will be taken in one week.

Wrecking Started.

BANK Cost, \$—
OAKLAND, Alameda Co., Cal. NE 14th and Fruitvale Ave.
One-story concrete bank (100x90-ft.).
Owner and Builder—Floyd Steel, 57 Sutter St., San Francisco.

Architect—George de Colmesnil, Nevada Bank Bldg., San Francisco.

Lessee—Bank of Italy.

Wrecking of concrete has been started by Ariss-Knapp Co., 41st St., Oakland. Owner will let other contracts shortly.

Specifications Being Written.

OFFICES Cost, \$60,000
WATSONVILLE, Santa Cruz Co., Cal. Main St. N Fifth St.

One- and two-story offices with tile roof (reinforced concrete construction with cement plaster; 91x236-ft.).

Owner—Coast Counties Gas & Electric Co., N. E. Paulsen, manager, Watsonville.

Architect—Albert F. Roller, First National Bank Bldg., San Francisco.

Bids will be taken in about 2 weeks.

Sub-Bids Being Taken.

BANK Cost, \$15,000
SAN FRANCISCO. Divisadero St. and Hayes St.

One-story and basement reinforced concrete bank.

Owner—Bank of Italy.

Architect—H. A. Minton, Bank of Italy Bldg., Eddy and Powell Sts.

Contractor—Jacks and Irvine, 74 New Montgomery St.

Plans Being Completed.

BANK PLDG. Cost, \$100,000
CHICO, Butte Co., Cal. Broadway and Second Sts. (95x51-ft.).

One-story reinforced concrete bank (steel trusses, marble work, etc.).

Owner—Bank of Italy.

Architect—H. A. Minton, Bank of Italy Bldg., San Francisco.

Bids will be taken in one week.

There will be a space of 21 ft. between the ceiling and the floor and the general interior will be of marble and acoustical plaster, with low type screens of bronze. The general construction will be of concrete, with steel trusses instead of pillars to support the roof.

Construction Postponed Until June, 1931.

ALTERATIONS Cost, \$100,000
SAN FRANCISCO. St. Francis Hotel (Powell, Geary and Post Sts.).

Alter mural room for restaurant and sweet shop.

Owner—St. Francis Hotel.

Architect—W. B. Saville, Crocker 1st National Bank Bldg.

Lessee—Pig's Whistle Corp.

Contractor—Jacks & Irvine, 74 New Montgomery St.

Plans Being Prepared.

ALTERATIONS Cost, \$—
SAN JOSE, Santa Clara Co., Cal. No. 140 S-First Street.

Alterations and additions to present two-story frame stores.

Owner—F. & W. Grand Stores.

Architect—Blender & Curtis, 35 W-San Carlos St., San Jose.

The structure is now occupied by Hale Bros.

Bids will not be taken before Feb. 1, 1931, at which time Hale Bros. will move to their new building.

Grading Contract Awarded.
 CAFE Cost, \$60,000.
 SAN FRANCISCO. N Columbus Ave.
 from Chestnut St. to Houston.
 Frame and concrete cafe.
 Owner—Frank Martinelli, 3743 Scott
 Street.

Architect—Miller & Pflueger, 550 Mar-
 ket Street.
 Contractor—J. Martinelli, 1355 Fran-
 cisco Street.

Grading—Peter Montague Co., Inc.,
 666 Mission St.

Will contain dining room, 60x120 ft.,
 large lobby, ladies' lounge, men's
 smoking room, private dining rooms,
 special illuminating features on in-
 terior and exterior. The exterior is to
 be faced with glazed tile with an en-
 trance of illuminated glass.

Sub-bids are wanted on all portions
 of the work.

Planned.
 OFFICES Cost, \$—
 LOS ANGELES, Cal. NW Seventh &
 Flower Sts.
 Thirteen-story class A office building
 (119x62-ft.)
 Owner—Finance Corp. of America, 811
 W 7th St., Los Angeles.
 Architect—Not Selected.

To Be Done By Day's Work.
 ALTERATIONS Cost, \$15,000
 SAN FRANCISCO. SE Fulton and
 Webster Sts.

Alterations and additions to building.
 Owner—Cereal Products Refining Cor-
 poration, 762 Fulton St.
 Engineer—J. A. Wright, 331 Bush St.

Plans Being Completed.
 STORES Cost approx. \$75,000
 OAKLAND, Alameda Co., Cal. SW
 19th and Broadway.

Group of one-story steel frame and
 terra cotta shops and stores.
 Owner—Twentieth & Broadway Realty
 Co., Oakland.

Architect—A. J. Evers, 525 Market
 St., San Francisco.

Bids will be called for in about one
 week.

Being Done By Day's Work By Owner
 ALTERATIONS Cost, \$25,000
 MODESTO, Stanislaus Co., Cal. Tenth
 and I Streets.

Alterations to two-story Class C con-
 crete building for stores.

Owner—Bank of America.
 Architect—H. A. Minton, Bank of Italy
 Bldg., Eddy and Powell Sts., San
 Francisco.

Sub-bids will be taken at a later
 date.

Plans Completed.
 STORE, ETC. Cost, \$100,000
 LOS ANGELES, Cal. No. 801-803 S.
 Flower Street.

Five-story Class A reinforced con-
 crete store and lofts (45x152 ft.)

Owner—Owl Realty Co., Metropolitan
 Bldg., Los Angeles.

Architect—Edwin Bergstrom, Citizens
 National Bank Bldg., Los Angeles.

Sub-Contracts Awarded.
 BANK Cost Approx. \$20,000
 CASTROVILLE, Monterey Co., Cal.
 One-story brick bank.

Owner—Monterey County Trust &
 Savings Bank, Salinas.

Architect—H. H. Winner Co., 550
 Market St., San Francisco.

Contractor—Hugh Comstock, El Paseo
 Bldg., Carmel.

Masonry—J. A. Chappell, Carmel.

Electrical Wiring—Carroll & Searle,
 Monterey.

Glass and Glazing—Cobbledick, Kibbe
 Co., 666 Howard St., S. F.

Finish Hardware—Lee Hardware Co.,
 151 New Montgomery St., S. F.

Iron Work, Reinf.—W. J. Wetenhall
 Co., 17th and Wisconsin Sts., San
 Francisco.

Ornamental Ironwork—Robt Peter-
 son, Monterey.

Lumber and Millwork—M. J. Murphy,
 Inc., Carmel.

Painting—Krudwig & Meyering, Mon-
 terey.

Plumbing—Anderson & Dougherty,
 Salinas.

Tile Coping—Tynan Lumber Co., Mon-
 terey.

Sheet Metal—Vosmer Sheet Metal
 Works, Monterey.

Tile Encasement—Lewis, Monterey.

Flag Pole—Holander & Sons, 945 Bry-
 ant St., San Francisco.

Steel Sash—Michel & Pfeffer, Harri-
 son and Tenth Sts., S. F.

Reinforcing Steel—W. S. Wetenhall
 Co., 17th and Wisconsin Sts., San
 Francisco.

Plastering—George Frick, 336 Fulton
 St., San Francisco.

Completing Plans—Contract Awarded.
 ALTERATIONS Cost, \$—
 OAKLAND, Alameda Co., Cal. 1801
 Franklin Street.

Alterations to two-story and mezza-
 nine floor concrete building.

Owner—California Mutual Bldg. and
 Loan Assn., 1706 Franklin Street,
 Oakland.

Architect—Blaine & Olson, 1755 Broad-
 way, Oakland.

Contractor—Ed. Larmer, 90 Fairview
 Ave., Oakland.

The Northern Life Insurance Com-
 pany will occupy the mezzanine and
 second floor. Work will be started
 about Dec. 1.

Plans Being Completed.
 STORE Cost, \$100,000
 OAKLAND, Alameda Co., Cal. 1717
 Broadway.

Two-story and basement reinforced
 concrete store (75x110-ft.)

Owner—Mrs. Phillip E. Bowles, Russ
 Bldg., San Francisco.

Architect—Douglas Stone, 1706 Broad-
 way, Oakland.

Bids will be taken in ten days.

Contract Awarded.
 ALTERATIONS Cost, \$15,000
 SAN FRANCISCO. SE Fulton and
 Webster Sts.

Alterations and additions to building.
 Owner—Cereal Products Refining Cor-
 poration, 762 Fulton St.

Engineer—J. A. Wright, 331 Bush St.

Contractor—Richard Forbes, Monad-
 nock Bldg.

Contract Awarded—Sub-Bids Being
 Taken.
 STORES Cost, \$6500
 PALO ALTO, Santa Clara Co., Cal. S
 California Avenue.

One-story concrete stores (3 stores).

Owner—Bartley & Stenbit, 450 Cal-
 fornia Ave., Palo Alto.

Plans by Owner.

Contractor—Young & Horstmeier, 461
 Market St., San Francisco.

Plans Being Prepared.
 OFFICES Cost, \$60,000
 WATSONVILLE, Santa Cruz Co., Cal.
 Main St. N 5th St.

One- and two-story offices with tile
 roof (91x236-ft.)

Owner—Count Counties Gas & Elec-
 tric Co., N. E. Paulsen, manager,
 Watsonville.

Architect—Albert P. Roller, First Na-
 tional Bank Bldg., San Francisco.

Completing Plans.
 STORE Cost, \$—
 LOS ANGELES, Cal. No. 541 S
 Broadway.

Six-story and basement Class A steel
 and concrete store (60x165 feet),
 (terra cotta front).

Owner—F. & W. Grand Co.

Architect—Walker & Elsen, Western
 Pacific Bldg., Los Angeles.

Sub-Contracts Awarded.
 STORE Cost, \$12,000
 OAKLAND, Alameda Co., Cal. N
 E-Fourteenth St. W 35th Ave.

One-story brick store.

Owner—E. M. Berger.

Architect—None.

Contractor—J. B. Peterson, 4021 Agua
 Vista Ave., Oakland.

Plumbing—C. W. Wolken, 2059 38th
 Ave., Oakland.

Electric Wiring—Hancock Townsend,
 2510 Fruitvale Ave., Oakland.

Glass and Glazing—Cobbledick Kibbe
 Glass Co., 666 Howard St., S. F.

Sheet Metal—City Corncor Co., 3119
 San Pablo Ave., Oakland.

Mill Work—Eureka Mill & Lumber
 Co., 3615 E-14th St., Oakland.

Plans Being Prepared.
 OFFICES Cost, \$650,000
 PORTLAND, Ore. Fourth and Mor-
 rison Sts.

Twelve-story and basement steel
 frame and concrete offices and (9)
 stores (brick and terra cotta ex-
 terior).

Owner—Mortgage Inv. Co., Guardian
 Bldg., Portland.

Architect—Clausen and Clausen,
 Guardian Bldg., Portland.

The first two stories will cover the
 entire 100 by 100 foot land area while
 the upper 10 stories will be L-shaped
 with a 48-foot square light court at
 the rear. There will be 9100 square
 feet of rentable store space on the
 ground floor, 8545 square feet on the
 second floor, and the upper ten stories
 will provide 60,450 square feet of rent-
 able office space.

Plans Being Prepared.
 ADDITION Cost, \$—
 SAN FRANCISCO. 468 Turk St.

One-story concrete addition to build-
 ing.

Owner—Bell Bros., Mills Bldg.

Architect—Withheld.

Lessee—Hoover & Sweeper Co., 626
 Golden Gate Ave.

THEATRES

Structural Steel Bids Wanted.
 THEATRE Cost, \$500,000
 ALAMEDA, Alameda Co., Cal. North
 Central Ave. W Park St.

Structural steel frame and reinforced
 concrete theatre (to seat 3000).

Owner—Alameda Amusement Co.

Architect—Miller & Pflueger, 550 Mar-
 ket St., San Francisco.

Bids are now being received for
 structural steel and erection of same.

Contract Awarded.
 ALTERATIONS Cont. price, \$24,332
 OAKLAND, Alameda Co., Calif. 5631
 College Avenue.

Alterations to two-story class C brick
 theatre.

Owner—Up Town Theatre, premises.

Architect—A. A. Cantin, 544 Market
 St., San Francisco.

Contractor—Alfred J. Hopper, 1769
 Pleasant Valley Road, Piedmont.

Preparing Plans.
 THEATRE Cost, \$150,000
 SANTA ANA, Orange Co., Cal. Broad-
 way.

Two-story Class C brick theatre (50x
 150 feet) to seat 900.

Owner—United Artists.

Architect—Balch & Stanbery, Film
 Exchange Bldg., Los Angeles.

Plans Being Completed.
 ALTERATIONS Cost, \$60,000
 RICHMOND, Contra Costa Co., Cal.

Alterations to class C steel frame and
 brick theatre (change balcony,
 etc.)

Owner—Fox West Coast Theatres Inc.

Architect—Clausen and Clausen, 5
 Hearst Bldg., San Francisco.

Bids will be taken Nov. 22, from a
 selected list of contractors.

WHARVES AND DOCKS

OAKLAND, Alameda Co., Cal.—All bids received by City Port Commission for laying track materials to serve 348 ft. extension at Outer Harbor Terminal, were rejected. Lowest bids were submitted by Warden and Forsythe, Oakland, at \$2,030. New bids will be called for shortly.

MISCELLANEOUS CONSTRUCTION

Planned.
DEPOT Cost, \$200,000
LAS VEGAS, Nevada.
Class A depot.
Owner—Union Pacific Railway Co.
Architect—G. Stanley Underwood,
California Reserve Bldg., L. A.

Construction Postponed Until Jan. 1937.

UNDERTAKING PORLORS \$40,000
SAN FRANCISCO. Sacramento St. bet. Van Ness Ave and Polk St.
Three-story frame and stucco undertaking establishment and apartments.

Owner—Joseph Hagan, 1708 Sacramento St., San Francisco.
Architect—Henry C. Smith and A. R. Williams, Humboldt Bank Bldg., San Francisco.

Plans Being Prepared.
ALTERATIONS Cost, \$25,000
OAKLAND, Alameda Co., Cal. Telegraph Ave. near 29th St.
Alterations and additions to two-story and basement brick veneer residence for mortuary and chapel.
Owner—Grant D. Miller, 2363 E 14th St., Oakland.
Architect—Miller and Warneke, Financial Center Bldg., Oakland.
Bids will be taken in about 30 days.

SAN FRANCISCO—Until December 3, 2:30 p. m., bids will be received by Board of Public Works to construct reinforced concrete trestle to support 41-inch pipe line of municipal water department at Alemany Blvd.; estimated cost \$7000. Project will involve:
4,000 lin. ft. timber piling;
110 cu. yds. reinforced concrete piers, slab and girders (Class A);
30 cu. yds. plain concrete piers (Class B);
18,500 lbs reinforcing steel in place.
Certified check 10 per cent payable to clerk of the Board of Supervisors required with bid. Plans obtainable from bureau of engineering, Municipal Water Department, Room 701, 425 Mason St., on deposit of \$10, returnable.

Sub-Contracts Awarded.
KITCHEN Cost, \$20,000
SAN FRANCISCO. Clara and Ritch Streets.
One-story reinforced concrete kitchen building with steel trusses.
Owner—H. G. Clifford, 918 Harrison.
Architect—E. A. Eames, 353 Sacramento Street.
Contractor—Barrett & Hilp, 918 Harrison Street.
Lumber—Christensen Lumber Co., 5th and Hooper Sts.
Concrete—Redmix Concrete Co., 573 Berry St.
Electrical Work—Victor Lemoge, 281 Natoma St.
Steel Sash—Michel & Pfeffer Iron Works, Harrison and 10th Sts.
Structural Steel—Dyer Prothers Iron Works, 17th and Kansas Sts.

EUREKA, Humboldt Co., Cal.—Until December 2, 5 P. M., bids will be received by A. Walter Kildale, city clerk, to furnish and deliver 1000 cubic

yards, more or less, screened gravel. Further information obtainable from Clerk.

STOCKTON, San Joaquin Co., Cal.—Edw. R. Janison, Box 853, Sacramento, awarded contract by county supervisors at \$1845 to construct 5.5 miles of fence on the north line of the J. R. Russell Road in Road Dist. No. 3, involving 2420 redwood posts (split), 42 redwood posts (6 in. x 8 in. x 8 ft.), 6380 rods of barbed wire, 16 gates. Other total bids received follow: Nelson Bros., Escalon, \$1871; F. E. Fitzsimmons, Lodi, \$1935; C. E. Totten, Stockton, \$1991; Pereira and Reed, Tracy, \$2072.

Contract Awarded.
STORE Cost, \$7000
PALO ALTO, Santa Clara Co., Calif. Baron Avenue.
One-story frame and stucco store.
Owner—Louis Goldstein, 350 California, Palo Alto.
Plans by Owner.
Contractor—Mr. Van Schlack, care owner.

Plans To Be Prepared.
STATION Cost, \$10,000
TURLOCK, Stanislaus Co., Cal. Mission type freight and passenger station.
Owner—Tidewater Southern Railroad (controlled by Western Pacific R. R.), Mills Bldg., San Francisco.
Architect—Eng. Dept. of Owner.

REDWOOD CITY, San Mateo Co., Cal.—W. O. Tyson, 42 Jefferson St., Redwood City, at \$683.40 submitted lowest bid to city clerk to construct reinforced concrete retaining wall along the bank of a branch of Redwood Creek and joining with concrete bridge in Lathrop St. between Elm and Maple Sts.

Following is a complete list of bids:
W. O. Tyson, Redwood City..... \$683
Falcon Sciarro & Hughes Sneed, 347
Carl Frank Company..... 874
Bids held under advisement.

OAKLAND, Cal. — San Leandro Rock Co., 1273 Foothill Blvd., San Leandro, at \$.90 cu. yd. submitted low bid to City Port Commission to furnish 5000 tons quarry waste crushed rock for drainage structures. Central Construction Co., Oakland, only other bidder at \$1.04 cu. yd. Taken under advisement.

SAN FRANCISCO—Board of Supervisors has voted to call a special election in January to vote bonds of \$2,500,000 to finance a construction program to relieve unemployed. The improvements will consist of street repairs, developments in municipal parks, playground improvements, etc.

SAN FRANCISCO—Robert A. Farish, 125 De Montford St., at \$5,300 awarded contract by Playground Commission for grading playground site at junction of Ocean Avenue and Antos Avenue, adjoining Appas school now in course of construction.

MISCELLANEOUS SUPPLIES AND MATERIALS

LOS ANGELES, Cal.—Until 11 A. M., Nov. 28, bids will be received by the city purchasing agent, Thomas Oughton, for radio transmitting and receiving sets, Spec. No. 2234, as follows:

(1) Furnishing and installing medium high frequency radio telephone, remote controlled transmitting plant.
(2) Furnishing and installing complete medium high frequency radio sets as follows:

(a) 22 radio receiving sets in police

headquarters (1) alternating current, (2) 6-volt direct current.

(b) 45 radio receiving sets to be installed in police department automobiles.

PHOENIX, Ariz.—Until 10 A. M., Dec. 17, bids will be received by the Phoenix city manager for 221 button type reflector stop signs or rubber stop signs. All bids will be accompanied by a full sized sample. George H. Todd, city manager.

EUREKA, Humboldt Co., Cal.—Until Dec 2, 8 P. M., separate bids will be received by A. Walter Kildale, city clerk, to furnish and deliver for the year 1937:

- (a) Lubricating oil and grease;
- (b) Fuel Oil;
- (c) Gasoline.

Further information obtainable from

BUSINESS OPPORTUNITIES

SAN FRANCISCO.—Names and addresses of the individuals or firms concerned in the following opportunities will be furnished on request to the Business Opportunity Department of Daily Pacific Builder, 545-547 Mission Street. Phone GARfield 8744:

20596—Wrought Steel T and Strap Hinges, Jambes-Namen, Belgium. Exporters of extra heavy T and strap hinges to the United States are desirous of contacting local importers of these commodities.

20595—Oriental Rugs and Carpets. Mirzapur, U. P. India. Manufacturers of Oriental rugs and carpets, made of pure fine wool, desire to extend their market to the United States.

20599—Veneered Wood. San Francisco, Calif. French firm seeks an agent interested in imported veneered wood.

20604—Mineral Paints. Lohwald, Germany. Manufacturers of (Keim) mineral paints desire to contact California importers of this commodity.

20606—Representation, Passaic, N. J. Party, 52 years of age, is anxious to represent manufacturers of exporters abroad.

20611—Representation. San Francisco. An electrical engineer with long selling experience is desirous of having direct representation or establishing sole agency in the territories of Mexico or China in machinery, electrical appliances, telephone equipment, structural materials of any description, radio sets and parts.

20612—Marble Chips. New York. Firm is interested in obtaining a list of importers or dealers in this city, handling marble chips, such as used by tile setters, flooring concerns, etc.

20614—Black Micantite Tapes. Tokio, Japan. Japanese exporters wish to contact electric goods merchants in this city interested in importing black micantite tapes.

20645—Representation. New York City. Export and import shipping agent with 18 years' experience is desirous of contacting large exporting or importing houses in California in need of representation in the East to look after all details, as to shipping, handling, etc.

20646—Glass. Charleroy, Belgium. Suppliers of Belgium flat drawn window glass seek a local market.

20647—Electric Drills. San Francisco. French manufacturer of electric drills seeks an agent in San Francisco.

C.T. Kraft, (Pioneer Brass, Bronze and Aluminum Foundry), 153 14th St., San Francisco, desires to contract with party or firm to act as a sales representative for California new brass broom rack, preferably one in a position to sell direct to the customer.

Russett Co. (Mr. W. A. Fays), 2008 E 22nd St., Los Angeles, manufactures of rust proof liquid, desires to contract firm which would be interested in manufacturing and sales distribution of same.

Engineering News Section

BRIDGES

SAN LUIS OBISPO COUNTY, Cal.—San Atlas Constr. Co., Andrews Bldg., San Luis Obispo, awarded contract by State Highway Commission at \$9483.25 for constructing in San Luis Obispo County a timber bridge across San Carpelo Creek, about 11 miles north of San Simeon (V-SLO-56-A) to be repaired by constructing a timber truss span 75 ft. 10 in. long on concrete piers to replace some of the existing bents. Unit bid follows: 350 cu. yds. struc. excav., \$1.75; 110 cu. yds. class A conc. (struc.), \$19; 85 cu. yds. class A conc. (placed by tremie), \$16; 3800 lbs. reinf. steel, 5.5c; 24,500 lbs. struc. metal, 12c; 12 M. B. M. redwood timber (dense select all-heart struc.), \$180; 25 cu. yds. conc. to be moved, \$4.75.

LOS ANGELES COUNTY, Cal.—Robert E. McKee, 515 Hewitt Street, Los Angeles, at \$29,785 awarded contract by State Highway Commission to construct reinforced concrete girder bridge over The Atchison, Topeka & Santa Fe Railway at Manhattan Beach, consisting of one 42-ft. span, two 31-ft. spans, and one 30-ft. 10-in. span and one 30-ft. 2-in. span on concrete bents.

MERCED, Merced Co., Cal.—As previously reported, E. K. Angle, Dos Palos, at \$8200 awarded contract by county supervisors to construct timber pile bridge in Road District No. 4. Following is a complete list of bids received:

E. K. Angle, Dos Palos.....	\$ 8,200
J. E. Fitzsimmons, Lodi.....	8,990
Ralph Hunter, Sacramento.....	9,000
Roy Krueger, Gustine.....	10,350
M. A. Jenkins, Sacramento.....	10,737
C. D. DeVellis, Oakland.....	10,887
E. Fritz.....	11,773
R. T. Bush.....	12,418
M. B. McGowan, San Francisco	13,986

VANCOUVER, B. C.—Hodgson, King Marble, Dawson & Wade Co., Ltd., Vancouver, B. C., submitted the low bid to the city of Vancouver at \$1,677,047 for the construction of the Burrard St. bridge. Shea-Pacific Co. submitted the next lowest bid at \$1,727,232. The items are: 3,200 tons of struc. steel; 50,000 cu. yds. concrete; 2,000 tons of reinforcing steel; 18,000 sq. yds. paving. Bridge is to be 2817 ft. long and 80 ft. wide. J. R. Grant, Vancouver, B. C., is consulting engineer.

SANTA BARBARA, Cal.—Until 10 A. M., Dec. 1, bids will be received by the county supervisors for the construction of a reinforced concrete bridge across San Jose Creek. Plans obtainable from county surveyor, O. H. O'Neill. Eng. estimate \$6000.

SANTA ROSA, Sonoma Co., Cal.—Bids will be asked shortly by Joint Highway District No. 16 to construct bridge over the Russian River at Jenner; estimated cost \$190,000. War Department has granted permit to district to construct the bridge. J. B. Platt, engineer, Daugherty-Shea Bldg., Santa Rosa. Details of construction will be published shortly.

MERCED, Merced Co., Cal.—As previously reported, T. A. Wayne, Atwater, at \$5567 awarded contract by county supervisors to construct six concrete bridges in Road District No. 3 over various Canals. Following is a complete list of bids received: (a) for bridges 218-219-220; (b) for bridges 221-222-223:

	(A)	(B)
T. A. Wayne.....	\$3100	\$2467
United Concrete Pipe Co. 3300	2645	
John Groom.....	3301	2650
R. T. Bush.....	3338	2758
T. E. Clark.....	3351	
H. Sneed.....	3480	2760
C. C. Disney.....	3850	3100
Liner & Allen.....	4402	3167

SAN MATEO COUNTY, Cal.—Bodenhauer Construction Co., San Diego, at \$36,756 awarded contract by State Highway Commission to construct reinforced concrete girder bridge over Redwood Slough near Redwood City, consisting of three 35-ft. spans and one 22-ft. span on concrete pile bents. Unit bids on this project previously published.

CLOVERDALE, Sonoma Co., Cal.—J. E. Bentley, Cloverdale, at \$1657.98 awarded contract by city trustees to construct culverts in various sections of the city.

MODESTO, Stanislaus Co., Cal.—County Surveyor J. H. Hoskins will submit revised plans to the War Department seeking authorization to construct bridge over the San Joaquin river at Patterson. The revised plans will allow for an 11-foot greater clearance between the high water mark and the lower span of the proposed \$175,000 bridge, as was recommended by war department engineers. A dirt fill-in on the western bank will more than compensate for the added cost in increasing the height of the bridge, Hoskins says. The \$175,000 figure is for a fixed span type, which is from \$25,000 to \$45,000 less than a drawbridge, according to the county surveyor.

BAKERSFIELD, Kern Co., Cal.—Currie & Dulgair, Bakersfield, at \$8952 awarded contract by county supervisors to construct reinforced concrete three-compartment box culvert in the Bakersfield-Taft Highway, involving: 600 cu. yds. excavation; 1100 cu. yds. embank. in place; 1600 ft. b.m. sheet-piling; 313 cu. yds. concrete; 36,700 lbs. reinf. steel; shoring of present bridge.

BAKERSFIELD, Kern Co., Cal.—F. A. Greenough, Bakersfield, at \$2318 awarded contract by county supervisors to construct timber bridge on Shafter-Lerdo Highway, involving: 150 cu. yds. excavation; 180 cu. yds. embank. in place; 30,900 ft. b.m. timber.

BAKERSFIELD, Kern Co., Cal.—Currie & Dulgair, Bakersfield, at \$1765 awarded contract by county supervisors to construct reinforced concrete box culvert on Kern River Park Highway, involving 60 cu. yds. excavation; 88.78 cu. yds. concrete; 6422 lbs. reinforcing steel.

BUTTE COUNTY, Cal.—R. B. McKenzie, Red Bluff, at \$32,370 submitted low bid to State Highway Commission Nov. 19 to construct substructure of a bridge over North Fork of the Feather River at Pulga, consisting of two reinforced concrete abutments, two reinforced concrete piers, six concrete footings and four erection anchors. Complete list of bids follows:

R. B. McKenzie, Red Bluff.....	\$32,370
Gist & Fell, Arcadia.....	34,246
Gutleben Bros., Oakland.....	34,332
M. H. Slocombe, Los Angeles.....	34,901
B. B. Boyd, San Diego.....	36,146
Peter McHugh, San Francisco.....	36,954
Lord & Bishop, Sacramento.....	37,087
Rocca & Coletti, San Rafael.....	37,271
Ward Eng. Co., San Francisco.....	38,333
M. White, Santa Monica.....	43,103
F. J. Maurer & Son, Eureka.....	44,536

Bids held under advisement.

BERKELEY, Alameda Co., Calif.—Lee J. Immel, 1031 Evelyn St., Berkeley, awarded contract by city council to construct culvert extension west of Euclid Ave., at Cordornices Creek, involving: (a) 90 ft. 36-in. corr. metal pipe, \$5.65 ft.; (b) 90 ft. reinforced concrete centrifugal pipe, \$6.55 ft.; (c) no bid; (d) 30x30-in. Monolithic conc. box culvert, \$12.

Geo. F. McMullen (a) \$6.45; (b) \$6.60; (c) \$6.85; (d) \$9.35.

DREDGING, HARBOR WORKS & EXCAVATIONS

SOLANO COUNTY, Cal.—Until Dec. 8, 3 P. M., under Circular Proposal No. 31-148, Specifications 2529, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, to raise existing levee along east and south boundaries of the Liberty Farms Project No. 2, located southerly of Yolanda Station on the Sacramento Northern Railroad, involving approximately 380,000 cu. yds. Further information obtainable from above.

RICHMOND, Contra Costa Co., Cal.—American Dredging Co., 255 California St., San Francisco, at \$31 cu. yd. submitted low bid to U. S. Engineer Office, San Francisco, to furnish sand for making fill in Richmond Harbor, involving 195,000 cubic yards. Pacific Coast Aggregates at \$39 only other bidder. Taken under advisement.

RICHMOND, Contra Costa Co., Cal.—Olympia Dredging Co., 249 1st St., San Francisco, at \$697 cu. yd. submitted only bid to U. S. Engineer Office, San Francisco, for dredging in Richmond Harbor, involving 94,340 cu. yds. Taken under advisement.

SACRAMENTO, Cal.—Until November 20, 3 P. M., under Circular Proposal No. 31-144, Specifications No. 2636, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish, deliver and place rip-rap stone along the Sacramento river in the vicinity of Ryde, involving 1000 tons. Specifications and further information obtainable from above.

STOCKTON, San Joaquin Co., Cal.—Paris Bros., Berkeley, submitted low bid and will be awarded the contract by the U. S. Engineer Office, Sacramento, under Circular Proposal No. 31-113, Specifications No. 2310-1670 for constructing certain levees or embankments along the San Joaquin River, the closest item of work being located about 10 miles, and the most remote item being located about 20 miles below the City of Stockton, in connection with the construction of the 26-ft. channel project in the San Joaquin and Stockton Channel. Complete list of bids follows:

- Paris Bros., Berkeley, (a) Item 24, involving 7700 cu. yds., \$104; (b) Item 31, involving 34,900 cu. yds., \$694; (c) Item 32, involving 31,200 cu. yds., \$694.
Delta Dredging Co., Pittsburg (a) \$11; (b) \$11; (c) \$11.
E. T. Fisher, Stockton (a) \$15; (b) \$15; (c) \$15.

SACRAMENTO, Cal.—Until Nov. 28, 3 P. M., bids will be received by U. S. Engineer Office, California Fruit Levee, Sacramento, to furnish and deliver under Order No. 2653, 1,500 tons rip-rap stone for winddams. Further information obtainable from above.

IRRIGATION PROJECTS

MERCED, Merced Co., Cal.—El Nido Irrigation District votes bonds of \$135,000 to finance construction of irrigation works, involving:

- (1) 12 miles of main canal, involving 150,000 cu. yds. canal excavation, 65,000 sq. ft. 2-in. concrete lining;
- (2) 15 miles of lateral canals, involving 120,000 cu. yds. canal excavation.
- (3) Construction of 24-in. to 48-in. siphons with headwalls, bridges, drops stop-gates and side-gates, etc.

A. Blakesley of the Merced Irrigation District is engineer for the district and W. A. Wright, secretary.

STREET LIGHTING SYSTEMS

RED BLUFF, Tehama Co., Cal.—Until December 1, 7:30 P. M., bids will be received by Enville C. Spaulding, city clerk, (1911-D) to install ornamental street lighting standards together with underground system in Walnut St., etc. Standards of Union Metal Mfg. Co. Design No. 792, 1-light. 1911 Act. Certified check 10% payable to city required with bid. Plans on file in office of clerk.

VISALIA, Tulare Co., Cal.—Bids received Nov. 17 by Ida Markham, city clerk (127-C) to install ornamental electrolier system with 52 two-light standards, together with underground system in portions of North and South Locust St.; North and South Court St., etc. Standards of Union Metal Mfg. Co. Design No. 2281. 1911 Act. Bond Act 1915. New bids have been ordered received, to be opened Dec. 1, 7:30 P. M. Cert. check 10% payable to city required with bid. Plans on file in office of clerk.

An unofficial listing of bids received November 17, follows:
A. C. Rice, Oakland.....\$19,869
R. A. Walker, Los Angeles.....20,061
Walker-Martin Corp., L. A.....20,167
Sam Fingerhut, Bakersfield.....20,506
Butte Elec. & Mfg. Co., S. F.....20,994

MACHINERY AND EQUIPMENT

VALLEJO, Solano Co., Cal.—Until November 24, 10 A. M., bids will be received by Alf. E. Edgcombe, city clerk, to furnish and deliver one automobile of the roadster type. Cert. check 10% payable to city required.

with bid. Specifications obtainable from clerk.

HANFORD, Kings Co., Cal.—Until November 24, 8 P. M., bids will be received by D. C. Williams, city clerk, to furnish and deliver one Caterpillar Tractor with canopy top and one Killefer Scraper; bids to be f. o. b. Hanford.

DANFORTH, Tulare Co., Cal.—Until November 28, 7:30 P. M., bids will be received by W. J. Minville, city clerk, (pro tem), to furnish and deliver roadster type automobile; cost not to exceed \$700 fully equipped; allowance to be made on Ford Model T touring car. Certified check 10% required with bid.

SAN MATEO, San Mateo Co., Cal.—Until December 1, 10 A. M., bids will be received by E. C. Lydon, clerk, San Mateo School District, to furnish and deliver one automobile school bus; capacity of from 38 to 40 pupils; equipped with motor at least 25-h. P., S.A.E., and of at least 6 cylinders. Separate bids will be considered for chassis and for body.

MADERA, Madera Co., Cal.—Until December 2, 10 A. M., bids will be received by L. W. Cooper, county clerk, to furnish one new Moreland Truck Chassis, not less than 5300 pounds capacity. Specifications on file in office of clerk.

SACRAMENTO, Cal.—Until November 28, 2 P. M., bids will be received by D. H. Greeley, superintendent of equipment, State Highway Commission, Shop No. 3, 1852 34th St., Sacramento, for the purchase of the following equipment no longer required:

- CHC 1296 Standard 3½-ton truck chassis and cab only.
- CHC 1580 Liberty Oil Distributor.
- CHC 293 Austin Giant 8' Leaning Wheel Grader.
- 1 only Fairbanks-Morse 6 H.P. Gas Engine.

Bidders may make offers for one or more items but must state price offered for each item. No lump sum bids will be considered.

All equipment may be inspected at the Division of Highways yards at 1852 34th St., Sacramento, from 8:30 A. M. to 4:30 P. M. on any working day.

HUMBOLDT COUNTY, Cal.—Until November 28, 2 P. M., bids will be received by W. H. Pierce, superintendent of equipment, Shop No. 1, State Highway Commission, Eureka, for the purchase of the following equipment, no longer required:

- CHC 2498 Chevrolet Truck Chassis
- CHC 2493 Ford Express
- CHC 1278 Standard Truck Chassis
- CHC 1236 Standard Truck Chassis

Bidders may make offers for one or more items but must state price offered for each item. No lump sum bid will be considered.

All equipment may be inspected at the Division of Highways yards at Eureka, from 8:30 A. M. to 4:30 P. M. on any working day.

FRESNO, Fresno Co., Calif.—Until November 28, 2 P. M., bids will be received by R. J. Carlisle, superintendent of equipment, Shop No. 6, State Highway Commission, 645 West Olive St., Fresno, for the purchase of the following equipment, no longer required:

- 1 Sullivan Drill Sharpener CHC No. 1.
- 1 Solar Blue Print Frame complete with plate glass 29x42 inches and felts.

- 1 Ford Tudor Sedan, Model "A", CHC 2862.
- 1 two-ton Caterpillar, CHC 235.
- 1 two-ton Caterpillar, CHC 237.
- 1 Itx 7x6 Compressor with Continental Model N Gas Engine mounted on skids, CHC No. 36.

Bidders may make offer for one or more items but must state price offered for each. No lump sum bids will be considered.

All equipment may be inspected at the Division of Highways' yards at 645 West Olive Ave., Fresno, from 8:30 A. M. to 4:30 P. M. on any working day.

SAN LUIS OBISPO COUNTY, Cal.—Until November 28, 2 P. M., bids will be received by R. P. Hamlin, superintendent of equipment, Shop No. 5, State Highway Commission, for the purchase of the following equipment, no longer required:

- CHC 1 x120" cylindrical gravel screen, 36" x120" with 3" openings.
- CHC 1225 Standard 3½-ton power dump truck.
- CHC 1334 Standard 3½-ton power dump truck.
- CHC 110 Office Wagon.
- CHC 111 Office Wagon.
- CHC 2196 Chevrolet 1-ton hand dump truck.
- CHC 3 Steam Engine 7½" Vert Single Cyl. 12 HP F. M.
- CHC 47 Concrete Mixer, Foote No. 16-E with 10 HP Novo Engine.
- 3 Only 2-wheel Scrapers.

Conical Sand Screen with cast base and driving gears, length 6', diameter 5'x1' 5-15" holes

- 1 Only 1-yd. Drag Line Bucket Sauer-man.
- 2 Only 1-yd. Car Unloaders.
- CHC 167 Office Wagon.
- CHC 25 Gas Engine, Doak 30 HP.
- CHC 232 4-wheel 1½-ton Trailmobile

Bidders may make offers for one or more items but must state price offered for each item. No lump sum bids will be considered.

All equipment may be inspected at the Division of Highways yards at San Luis Obispo, from 8:30 A. M. to 4:30 P. M., on any working day, except Gas Engine CHC 23. Doak 30 HP which may be inspected at the Highway yards at Paso Robles and Standard Trucks, CHC 1225 and CHC 1334 which are located at the Little Sur Prison Camp and may be inspected by arrangement with the superintendent.

FIRE ALARM SYSTEMS

SALINAS, Monterey Co., Cal.—Until December 1, 7:30 P. M., bids will be received by M. R. Keef, city clerk, to furnish and install 460 feet of 1½-inch galvanized conduit starting at present firehouse and terminating in service meter box located in alley west of Main St. and on Gablian St., and including the hooking up of the same to the present traffic signals and installing control switch in firehouse. Specifications on file in office of clerk.

OAKLAND, Cal.—Eagle Signal Sales Corp., 939 Market St., San Francisco, at \$1476 awarded contract by city council to furnish and install traffic signals and signal timers. Bid covered furnishing and delivering 20 signal timers, \$676; furnish and deliver 5 traffic signal secondary timers, \$800.

OAKLAND, Cal.—Globe Elec. Works (R. F. Flatland), 1899 Mission Street, San Francisco, awarded contract by city council to furnish and install signal cable in connection with traffic system, involving 1½-inch cable conduit, 8.84 lin. ft.; 2-in. cable conduit, 8.70 lin. ft.

RESERVOIRS AND DAMS

HOOVER DAM.—The Interior Department announces that advance copies of specifications covering construction of Boulder Dam will be available to contractors early next month. The first contract to be let will include the 727-ft. dam, the four 50-ft. dia. diversion tunnels, the coffer dams and the power plant and, according to the statement, it is planned to open bids for all this work early in February.

Principal items and approximate quantities of materials involved as follows:

1,800,000 cu. yds. all classes of open-cut excavation; 1,900,000 cu. yds. of tunnel and shaft excavation; 1,200,000 cu. yds. of earth and rock fill in coffer dams and river-channel protection; 4,400,000 cu. yds. of concrete; 228,000 cu. ft. of grout, placing 5,500,000 lbs. of reinforcement bars, drilling 150,000 lin. ft. of grout and drainage holes, installing 1,800,000 lbs. of small metal pipe and fittings, installing 32,500,000 lbs. of large metal conduits, installing 10,600,000 lbs. of structural steel and installing 20,000,000 lbs. of gates, hoists and other metal work.

SANTA BARBARA, Cal.—The Santa Barbara water commission has retained Hugh E. Martin as consulting engineer to survey the Mono and Gibraltar dam sites to determine the best location for a second Gibraltar dam.

PIPE LINES, WELLS, ETC.

OAKLAND, Cal.—Steel Tank & Pipe Co., 1100 Fourth St., Berkeley, at \$37,142 (\$3.79 ft.) awarded contract by East Bay Municipal Utility District to furnish 8900 lineal feet of ¾-inch thickness, 24-inch diameter electric welded sheet steel pipe for distributing system.

COALINGA, Fresno Co., Cal.—Until December 1, 7:30 P. M., bids will be received by E. J. McCroskey, city clerk, to furnish and deliver 5000 ft. 3-inch lap-weld pipe line (7.70). Certified check 10% required with bid.

SEWERS AND SEWAGE DISPOSAL PLANTS

REDWOOD CITY, San Mateo Co., Cal.—County supervisors declare intention (19) to construct sewer system in Daly City and Colma Sections. Estimated cost \$146,000. Work under 1911 Act and County Improvement Act 1921. Hearing December 1. Project involves:

Vit. Clay Pipe Sewer

66,000 lin. ft. 6-in.
1,600 lin. ft. 8-in.
4,600 lin. ft. 10-in.
2,900 lin. ft. 12-in.
5,400 lin. ft. 15-in.

Cast Iron Pipe Sewer

2,100 lin. ft. 8-in.
200 lin. ft. 14-in.

Vit. Clay Wye Branches

1,740 6x4-in.
20 8x4-in.
70 10x4-in.
100 12x4-in.
50 15x4-in.
330 manholes;

- 1 concrete sedimentation tank;
- 1 gravel sludge bed with concrete floor;
- 2 brick pump sumps;
- 2 400-gal. p. m. pumps;
- 2 500-gal. p. m. pumps;
- 1 140-gal. p. m. pump;
- 2 concrete pumphouses;
- 1 corrugated iron pumphouse.

R. A. Klassen, Redwood City, is engineer on the project. Elizabeth M. Kneese, county clerk

SAN FRANCISCO.—E. J. Treacy, Call Bldg., at \$2303 submitted low bid to Board of Public Works to improve Brussels St., between Ward and Mansell Sts., including crossings of Ward, Ordway and Mansell Sts., involving construction of vitrified clay pipe sewers, manholes and wye branches. Complete list of bids follows:

E. J. Treacy	\$2,303
M. J. Lynch	2,741
J. Verano	2,075
A. G. Ralsch	3,238
C. B. Eaton	3,515
Pay Improvement Co.	3,666

WATER WORKS

ANTIOCH, Contra Costa Co., Cal.—P. L. Burr, 320 Market St., San Francisco, at \$3049.15 awarded contract by city council to install 10-in. c. i. water mains, laterals and fire hydrants in B street, between Sixth and Tenth Sts.

PHOENIX, Ariz.—Construction of the Verde Intake pipe line, for which bids will be received by the city manager, Geo. H. Todd, at 10 A. M., Dec. 2 (previously noted) includes construction of a main supply line, 31.5 miles in length, a distribution system 8 miles in length, one 20,000,000-gallon reservoir and one detritor. According to C. C. Kennedy, consulting engineer, San Francisco, bids will be taken on alternative routes for the main supply line, one route to have 20,000 lin. ft. of 5½ by 7 ft. tunnel and the alternate route to have tunnels 2000 and 2500 ft. long. Alternative bids will be taken on cast iron pipe; welded steel pipe; and reinforced concrete pipe in sizes of 54-in., 48-in. and 45-in. The pipe line from the reservoir to the city will be 6½ miles in length, of 48-in., 45-in. and 36-in. cast iron pipe, or welded steel pipe, or lock joint pipe, or Hume centrifugally cast reinforced concrete pipe, or steel pipe centrifugally lined with concrete and gunite coating on outside. Work will also include a sand removal apparatus, \$2,200,000. Bonds have been sold for the above improvements.

MODESTO, Stanislaus Co., Cal.—H. E. Gragg, city clerk, ask bids shortly to furnish and deliver a quantity of pipe for water system extensions. Frank Rossi, city engineer.

SAN FRANCISCO.—Until Dec. 1, 3 P. M., under Proposal No. 661, bids will be received by Leonard S. Leavy, City Purchasing Agent, 270 City Hall, to furnish and deliver cast iron pipe, tar coated (made in the U. S. A.), for San Francisco Water Department, as follows:

30,000-ft. size 6-inch.
30,000-ft. size 8-inch.

Specifications obtainable from above.

SAN FRANCISCO.—Bids will be asked shortly by S. J. Hester, secretary, Board of Public Works, to furnish and install electrically driven centrifugally pump with appurtenances at the Mills Field Municipal Airport.

REDWOOD CITY, San Mateo Co., Cal.—City Engineer C. L. Dimmitt is making surveys for pipe line to connect with the well on the Howard Canine property east of Chestnut St., in connection with the municipal water system; estimated cost \$17,500.

STREETS AND HIGHWAYS

FRESNO, Fresno Co., Cal.—Valley Paving & Construction Co., Visalia, submitted low bid to county supervisors to pave Mount Whitney Ave. in Riverdale Road District No. 14, involving 2500 lin. ft. of 3-in. Permatite asphaltic concrete surface, 45 ft. wide, and 5000 lin. ft. of curbs and gutters. Johnson & Sons, only other bidder. Taken under advisement until Nov. 25.

KERN COUNTY, Cal.—Valley Paving & Construction Co., Visalia, at \$22,819 awarded contract by State Highway Commission to grade and pave with cement concrete, 0.3 mile near Wasco.

HILLSBOROUGH, San Mateo Co., Cal.—Town trustees declare intention (30-2) to improve portions of the Arden Road and San Raymundo Road, etc., involving grading; 4-in. asphalt, conc. base pave with 2-in. asphalt, conc. surface, etc.; hyd. cem. conc. gutters; hyd. cem. conc. steel reinf. retaining walls; 4-in. clay tile pipe drains; conc. storm water sewers; catchbasins. City will pay \$2500 of cost from Treasury. 1915 Bond Act. Hearing Dec. 2. John A. Hoey, town clerk.

SAN FRANCISCO.—Federal Construction Co., Call Bldg., at \$5421 awarded contract by Board of Public Works for paving at Mills Field Municipal Airport involving, 52,000 sq. ft. 2-in. asphalt, conc. wearing surface; 35,200 sq. ft. ¾-in. emulsified asphalt wearing surface; 15 tons asphaltic concrete repairs; 2600 sq. ft. concrete sidewalks; 165 lin. ft. armored concrete curb and gutter; 1 concrete inlet; miscellaneous work; manhole readjustment; gate relocation; water pipe installation.

MONTEREY, Monterey Co., Cal.—J. L. Connor, P. O. Box 542, Monterey awarded contract by city council (3020) to construct 4-inch cement concrete sidewalks in Lighthouse Ave., between north line of U. S. Military Reservation and common boundary

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line between the city of Pacific Grove and the city of Monterey.

VALEJO, Solano Co., Cal.—City council has authorized Southern Pacific R. R. to construct proposed crossing over Fourth St., a link in the southern extension of Sonoma St., over the tidelands to South Vallejo. The cost is estimated at \$3500 and will be borne by the city. T. D. Kilkeny is city engineer.

SAN JOSE, Santa Clara Co., Cal.—City council declares intention (5238) to improve Morse and Chapman Sts., between Fremont and Singletary Aves., involving grading; 1½-in. asph. conc. surface pavement on 2½-in. asph. conc. base; cem. conc. sidewalks, curbs, vit. pipe lateral house sewers. 1911 Act. Hearing Dec. 1. John J. Lynch, city clerk. Wm. Popp, city engineer.

SAN JOSE, Santa Clara Co., Cal.—Until November 24, 8 P. M., bids will be received by John J. Lynch, city clerk, (5216) to improve portions of Morlan Ave., bet. Santa Clara and 13th Sts., involving grading; 1½-in. asph. conc. surface pavement on 2½-in. asph. conc. base; cem. concrete walks and curbs. 1911 Act. Certified check 10% payable to city required with bid. Plans on file in office of clerk. Wm. Popp, city engineer.

SAN JOSE, Santa Clara Co., Cal.—Until November 24, 8 P. M., bids will be received by John J. Lynch, city clerk, (5218) to improve Vermont St., bet. Myrtle and Elm Sts., involving grading; 1½-in. asph. conc. surface pavement on 2½-in. asph. conc. base; 4-in. vitrified house lateral sewers; cem. conc. walks and gutters. 1911 Act. Certified check 10% payable to city required with bid. Plans on file in office of clerk. Wm. Popp, city engineer.

BURLINGAME, San Mateo Co., Cal.—Union Paving Co., Calif. Bldg., San Francisco, at approx. \$8000 awarded contract by Southern Pacific R. R. to pave portions of R. R. Ave., bet. 5th and 9th Aves., in rear of freight depot.

EUREKA, Humboldt Co., Cal.—Until December 2, 5 P. M., bids will be received by A. Walter Kildale, city clerk, to furnish and deliver 1000 cubic yards, more or less, screened gravel. Further information obtainable from Clerk.

OAKLAND, Cal.—Until December 4 12 noon, bids will be received by F. C. Merritt, city clerk, to improve portions of Hopkins Street Place and Portions of Hopkins Street and Coolidge Avenue, involving grading, curbs, pavement, walks, storm water inlets, sewer with manholes, lampholes and wye branches, vit. pipe side sewers. 1911 Act. City will pay 22½% of total cost from Treasury. Certified check 10%, payable to city required with bid. Plans on file in office of clerk. Walter N. Frickstad, city engineer.

OAKLAND, Cal.—Until December 4 12 noon, bids will be received by F. C. Merritt, city clerk, to improve portion of 92nd Ave., involving grading, pave, sewer, manholes, wye branches, storm water inlets and conduits. 1911 Act. Certified check 10% payable to city required with bid. Plans on file in office of clerk. Walter N. Frickstad, city engineer.

SANTA BARBARA, Cal.—Hunter & Richardson, 525 E. Haley St., awarded contract by the city at \$39,224 to improve Padre St., between State St. and Hollister Ave., and portions of

Los Olivos St., Pueblo St., Junipero St. and Wellington Ave., involving: 1733.18 cu. yds. embank.; 5753.66 cu. yds. excav.; 112,868.5 sq. ft. 7-5-7-in. concr. paving, including grading; 2559.2 ft. combined concr curb and 3-ft gutter; 382.3 ft. curb; 10,281.3 sq. ft. gutter; 66.6 ft. stone curb to be reset; 29 house sewer connections; 30 ft. 6-in. vit. main sewer; one 5-ft. manhole; 1.6 cu. yds. 4-in. concr. apron; 23,861.7 sq. ft. cement sidewalk; 16 ft. 24-in. reinf. concr. pipe; 42 ft. 36-in. reinf. concr. pipe; 66 ft. 42-in. reinf. concr. pipe; 166 ft. 12-in. concrete pipe; 15 ft. 8-in. corr. iron pipe; 2 2-ft. corr. iron catchbasins; one 7-ft. by 7-in. slot catchbasin.

SUTTER COUNTY, Calif.—As previously reported, N. M. Ball, Porterville, at \$8860 submitted low bid to State Highway Commission to grade and pave with Portland cement concrete 0.3 mile near the Sutter county hospital. Project involves: 7 sta. clear and grub, \$30; 1,350 cu. yds. roadway excavation without classification, \$70; 110 sta. yds. overhaul, \$65; 40 cu. yds. structure excavation, \$1; 2,150 sq. yds. subgrade for pavement, \$10; 450 cu. yds. class "A" P. C. C. pavement, \$11.75; 9,500 lbs. bar reinf. steel (pavement), \$406; 250 tons untreated crushed gravel or stone, \$3,500; 190 cu. yds. saly. surface (detour), \$125; 142 lin. ft. 12-in. corr. metal pipe, \$1; 160 cu. yds. remove and dispose of conc. in existing pavement, \$3; move and reset two monuments, \$250; 14 sta. yds. finish roadway, \$10. Taken under advisement.

OAKLAND, Calif.—City council has started proceedings to improve East Tenth and Russet Sts. bet. High St. and 54th Ave., involving 7-in. conc. pave. in center with 9-in. at edges; estimated cost, \$46,608 of which the city will pay \$17,072. W. N. Frickstad, city engineer.

STOCKTON, San Joaquin Co., Cal.—George French, Jr., P. O. Box 675, Stockton, at \$14,967 submitted low bid to county supervisors to improve road in Ripon District adjoining the Burham Ferry Road. Complete list of bids follows:

G. French, Jr.	\$14,967
Pieriera and Reed	15,191
Lilly, Willard & Biasotti	15,890
Louis Moreling	16,241
Larsen Brothers	17,025
H. Sykes	17,057
R. H. Downer	17,474

Taken under advisement.

OAKLAND, Cal.—San Leandro Rock Co., 1273 Foothill Blvd., San Leandro, at \$90 cu. yd. submitted low bid to City Port Commission to furnish 5000 tons quarry waste crushed rock for drainage structures. Central Construction Co., Oakland, only other bidder at \$1.04 cu. yd. Taken under advisement.

OAKLAND, Cal.—City council declares intention to improve E 10th St. bet. High St. and 50th Ave., Russet St. bet. 50th and 54th Aves., etc., involving grading, curbs, paving, conduits, corr. iron and concrete culverts. 1911 Act. City will pay 25% of cost from Treasury. Hearing Dec. 11. Walter N. Frickstad, city engineer.

SOUTH SAN FRANCISCO, San Mateo Co., Cal.—City council abandons proceedings under Resolution of Intention No. 72 to improve Industrial Way and portions of the Butler Road; estimated cost \$225,000.

MONTEREY, Monterey Co., Cal.—J. L. Connor, P. O. Box 542, Monterey awarded contract by city council (3023) to construct cement concrete sidewalks in portions of Pacific St. between Martin and Decatur Sts.

BAKERSFIELD, Kern Co., Cal.—W. K. McMillan, 2088 Howard St., San Francisco, at \$41,485.18 awarded contract by county supervisors to construct McKittick-Beiridge Road, involving:

1700 cu. yds. excav. for drainage structures; 2500 cu. yds. excav. drain ditches, etc.; 50,600 cu. yds. roadway excav.; 8.75 miles roadway grading; 645 cu. yds. concrete; 12,000 lbs. reinf. steel; placing culverts (culverts furnished by county).

SAN FRANCISCO—H. V. Tucker, 300 Vermont St., at \$38,731 submitted low bid to Board of Public Works to construct Section A of the Alemany Blvd., involving:

100,000 cu. yds. excavation;
2 brick manholes;
100 lin. ft. 12-in. V.C.P. sewer;
170 lin. ft. 18-in. do;
70 cu. yds. class B conc. in 18-inch sewer encasement, piers and tunnel bulkheads;
7,000 lbs. bar reinforcing steel;
600 lin. ft. 18-in. corr. pipe;
1 redwood intake.

Complete list of bids follows:

H. Tucker	\$38,731
Meyer Rosenberg	42,730
Sibley Grading Co.	43,668
Healy-Tibbetts Co.	47,564
Grandfield, Farrar & Carlin	50,577
Macdonald & Kahn	53,070
L. J. Cohn	63,135
C. B. Eaton	64,935

PALO ALTO, Santa Clara Co., Cal.—City council declares intention (938) to improve High St. between Lytton Ave. and Addison St., involving vit. san. sewers, cem. conc. gutters, drive-ways, curbs and walks, catchbasins, conc. storm sewer pipe, electrolier system, resurface roadway with asphalt concrete. 1911 Act. Hearing December 8. E. L. Beach, city clerk. J. F. Baybee, city engineer.

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ROSS, Marlin Co., Cal.—City council declares intention (7) to improve portions of Chestnut Ave. and Bridge Rd. Involving grading, Bitumuls pavement, gutters, 1 concrete catchbasin, extend 12-in. vit. pipe culvert. 1911 Act. Bond Act 1915. Hearing Dec. 11. C. J. Bradley, town clerk.

SAN FRANCISCO.—Until Dec. 3, 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to improve portions of Lawton St. from 12th to 17th Aves., portions of 16th Ave., 11th Ave., etc., in Golden Gate Heights District; estimated cost, \$56,000. Project involves: 163,000 sq. ft. asphalt pavement, consisting of 6-inch waterbound macadam base and 2-inch asphalt conc. wearing surface; 150,000 sq. ft. emulsified asphalt pavement, consisting of a 6-inch waterbound macadam base and 2-inch emulsified wearing surf. 19,000 lin. ft. armored conc. curb; 38 brick catchbasins; 1 catchbasin; 900 lin. ft. 10-in. V.C.P. culverts; 5,000 lin. ft. 6-in. V.C.P. side sewers. Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall.

SAN FRANCISCO.—E. J. Tracey, Call Bldg., at \$2,648 submitted low bid to Board of Public Works to improve crossing of Kansas and 22nd Sts., involving grading; armored conc. curbs; sidewalks; brick catchbasins; 2-in. asphalt conc. surface pave on 6-in. Class F conc. base and improve 22nd St., bet. Kansas and Rhode Island Sts., (where not), involving armored conc. curbs; side sewer; 6-in. Class E conc. pavement. Pay Improvement Co., only other bidder at \$2,751.

MILL VALLEY, Marin Co., Cal.—Until December 3, 8 P. M., bids will be received by Will Falley, town clerk, to improve portions of Blithdale, Park and other Sts., involving sidewalks, curbing and some paving. Estimated cost \$9330. Plans on file in office of clerk. E. K. Hussey, town engineer.

MARIN COUNTY, Calif.—Granfield, Farrar & Carlin, 67 Hoff Street, San Francisco, at \$189,633 submitted low bid to State Highway Commission November 19 to grade and surface with bituminous macadam, 3 miles between Alito and Waldo. Complete list of bids follows:

Granfield, Farrar & Carlin, San Francisco	\$189,633
Peninsula Paving Co., S. F.	189,725
E. C. Coates, Sacramento	194,092
M. J. Bevanda, Stockton	198,086
H. W. Rohl Co., Los Angeles	198,411
Frederickson & Watson and Frederickson Bros., Oakland	201,686
Lewis Const. Co., Los Angeles	204,012
Healy-Thibbitts Const. Co., San Francisco	208,850
R. G. Letourneau, Stockton	217,988
Geo. Pollock Co., Sacramento	224,767
J. F. Knapp, Oakland	225,257
O. A. Lindberg, Stockton	236,825
Hemstreet & Bell, Marysville	239,635
G. F. Atkinson Co., S. F.	253,202
Skeels & Graham, Roseville	259,128
W. H. Hauser, Oakland	262,724
Utah Const. Co., San Francisco	277,032
Finnell Co., Sacramento	293,662
D. McDonald, Sacramento	319,975

Bids held under advisement.

PALO ALTO, Santa Clara Co., Cal.—City council declares intention (936) to improve Palo Alto Ave., Hale St., Pope St., Dana St., Forest Court, Addison and Harker Aves., Pine and Webster Sts., Embarcadero Rd., Lane "B" East, Santa Rita Ave., Sherman Ave., Princeton St., Oberlin St. and

Harbard St., involving construction of vit. san. sewer mains and connections, brick manholes, c. i. water mains, galvanized iron water pipe connections, valves, hydrants, gas mains, concrete storm sewer pipe, cement concrete paving, sidewalks, etc. 1911 Act. Hearing Dec. 8. E. L. Beach, city clerk. J. F. Eyxbee, Jr., city engineer.

OAKLAND, Cal.—Until December 4, 12 noon, bids will be received by Frank C. Merritt, city clerk, to construct cement concrete sidewalks in portions of Allendale Ave., Birdsall Ave. and 57th Ave. 1911 Act. Certified check 10% payable to city required with bid. Plans on file in office of clerk. Walter N. Frickstad, city engineer.

SANTA BARBARA CO., Cal.—Macco Const. Co., Clearwater, at \$22,518 submitted low bid Nov. 19 to State Highway Commission to grade and pave with Portland cement concrete, 0.3 mile at Nojoqui Creek. Complete list of bids follows:

Macco Const. Co., Clearwater	\$22,518
Santa Maria Const. Co., Santa Maria	25,273
W. A. Dontanville, Salinas	28,349
Corwall Const. Co., Santa Barbara	31,006

Bids held under advisement.

Although awarded judgment of \$17,004 last year in San Francisco from the Raich Improvement Company, the Globe & Rutgers Fire Insurance Company has been unable to collect the judgment as the improvement company is no longer in existence.

Such are the allegations made by the insurance company in an action against A. J. Raich, contractor, filed in the superior court at San Jose last Friday to collect the amount of the San Francisco judgment and interest since 1923.

The improvement company, in conjunction with the Clinton Construction Company, were laying an asphalt street in pier 40 in San Francisco in October, 1925, when the fire heating of the asphalt got out of control and damaged the pier to the extent of \$44,476, according to the complaint.

The Clinton Company was insured for \$25,000 with the Globe Insurance Company and were held liable for \$13,898 damage to the pier, which was the amount of insurance paid them. The Clinton Company in turn assigned to the insurance company their claim against the Raich Company.

In February, 1929, the insurance company won judgment of \$17,004 from the Raich Improvement Company in the San Francisco superior court. But when the sheriff attempted to levy the property of the improvement company he learned they had ceased doing business in that name and that A. J. Raich was conducting it under his own and other names, according to the complaint.

The insurance company alleges a Raich is the owner of the entire stock of the Raich Improvement Company and therefore responsible for the judgment. The law firm of Miller & Thornton of San Francisco represent the insurance company.

The proposal to control the architecture of buildings erected on property contiguous to the Los Angeles civic center has been passed up to the Board of City Planning Commissioners and the city planning committee of the city council. This movement is favored by the Los Angeles Chamber of Commerce, which, according to President John C. Austin, has agreed that a reasonable attempt to control the architectural design of buildings facing the civic center should be made.

M. H. SLOCUM LOW ON FOUR TIMBER BRIDGES IN KERN CO.

KERN COUNTY, Cal.—As previously reported, M. H. Slocum, 2055 Veteran Avenue, Los Angeles, submitted the low bid to the State Highway Commission November 12 to construct four timber bridges in Kern County from 17 to 21 miles west of Easco, one composed of twelve 19-ft. spans, one composed of four 19-ft. spans and two composed of two 19-ft. spans each, all on framed bents with concrete footings. Following is a complete list of the unit bids received:

(1) 620 cu. yds. struc. excav.	dense select all - heart struc. grade;
(2) 3000 cu. yds. imported borrow;	(10) 70 M. ft. b.m. redwood timber, select all-heart struc. grade;
(3) 200 ton ssand (detour surfacing);	(11) 170 cu. yds. class A Portland cement concrete;
(4) 280 tons crusher run base (detour surf.);	(12) 84 cu. yds. class B Portland cement concrete;
(5) 93 bbls. heavy fuel oil;	(13) 19,600 lbs. reinf. steel;
(6) 138 lin. ft. 18-in. corr. metal pipe	(14) 1 lot misc. items of work;
(7) existing timber bridges to be removed;	The state will furnish corrugated metal pipe.
(8) 60 cu. yds. existing pavement to be removed;	
(9) 80 M. ft. b.m. redwood timber.	

The total bids were:

(A) M. H. Slocum, \$25,118.	(E) Ulrich Const. Co., \$26,714.
(B) G. A. Graham, \$25,682.	(F) Gist & Bell, \$29,735.
(C) V. R. Dennis Const. Co., \$25,728.	(G) J. S. Metzger, \$30,458.
(D) R. B. McKenzie, \$25,870.	(H) Finnel Co., \$31,872.

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
(1)	1.00	1.25	1.00	1.50	1.00	1.50	2.50	1.90
(2)	.45	.60	.50	.45	.445	.75	.75	1.25
(3)	1.60	2.00	1.25	1.75	1.00	4.50	5.00	4.00
(4)	4.50	5.00	4.25	4.60	4.75	5.00	8.00	6.50
(5)	1.90	2.00	3.00	2.10	2.50	2.00	10.00	5.00
(6)	.75	1.00	1.00	1.00	.75	1.00	1.00	1.00
(7)	900.00	600.00	1500.00	1235.00	1600.00	1600.00	2060.00	2000.00
(8)	2.50	4.00	3.00	5.00	4.50	3.00	7.00	3.00
(9)	97.75	101.26	105.00	100.00	108.00	100.00	100.00	108.00
(10)	89.75	95.71	92.00	90.00	94.00	105.00	93.00	99.00
(11)	17.75	15.25	13.50	17.00	16.60	18.50	16.00	16.75
(12)	19.50	17.50	15.00	21.00	16.50	20.00	15.00	14.00
(13)	.05	.05	.05	.05	.055	.06	.05	.055
(14)	500.00	300.00	500.00	150.00	550.00	800.00	400.00	400.00

Contracts Awarded

Liens, Acceptances, Etc.

BUILDING PERMITS

San Francisco County

No.	Owner	Contractor	Amt.
1479	Associated	Owner	1500
1480	Bott	Mooney	1400
1481	Cereal	Owner	12000
1482	Standard	Owner	4903
1483	Balliet	Owner	4000
1484	Mohr	Owner	10000
1485	Plumel	Sharman	10000
1486	Terlip	Owner	3000
1488	Delucchi	Dalton	3700
1487	Eposti	Siggs	2000
1489	Horgan	Owner	5500
1490	Storheim	Owner	30000
1491	Hobbs	Owner	3800
1492	Perasso	Owner	4000
1493	Granicher	Papenhausen	11000
1494	Meyer	Owner	8000
1495	Meyer	Owner	4000
1496	Stelling	Philippis	1500
1497	Meyer	Owner	12000
1498	Meyer	Owner	5000
1499	Heyman	Owner	7000
1500	Ealliet	Owner	3500
1501	Challenge	Owner	110000
1502	Clinton	American	2375
1503	Hill	Owner	3800
1504	Kamibe	Owner	4200
1505	Meyer	Owner	5000
1506	Reiche	Lindgren	1000
1507	Stranton	Malloch	4000

SERVICE STATION

(1479) NE MASONIC AVENUE and Turk St.; one-story class C service station.
Owner—Associated Oil Co., 79 New Montgomery St.
Architect—None. \$1500

REPAIRS

(1480) 1834 LYON ST.; repair fire damage.
Owner—C. Eott, 1834 Lyon St.
Architect—None.
Contractor—W. J. Mooney, 68 Belcher Street. \$1400

ALTERATIONS

(1481) SE FULTON and Webster; alterations to building for additional floor and roof.
Owner—Cereal Products Refining Corporation, 762 Fulton St.
Engineer—J. A. Wright, 381 Rush St. \$12,000

DWELLING

(1482) W 17th AVE. 175 N Ulloa; 1-story and basement frame dwelling.
Owner—Standard Bldg. Co., 218 Casteneda.
Architect—None. \$4000

DWELLING

(1483) W 33rd AVE. 275 S Ulloa; 1-story and basement frame dwelling.
Owner—F. F. Balliet, 810 47th Ave.
Architect—None. \$4000

RESIDENCE

(1484) S CERRITOS, Junipero Serra Blvd and Lunado Way; two-story and basement frame residence.
Owner—H. E. Mohr, 140 San Leandro Way.
Architect—M. A. Sheldon, Monadnock Bldg. \$10,000

DWELLINGS

(1485) N REVERE 125 W Lane; two one-story and basement frame dwellings.

Owner—J. Plumel, care bluilder.

Plans by Mr. Sharman.

Contractor—T. R. Sharman, 1514 Irving Street. each \$5000

DWELLING

(1486) E MADISON and Silver Ave.; one-story and basement frame dwelling.

Owner and Builder—L. B. Terlip, 707-A San Jose Ave.

Architect—None. \$3000

DWELLING

(1488) W SCHWERIN 293 S Sunnydale; 1-story and basement frame dwelling.

Owner—D. Delucchi, 625 Brussels.

Architect—None.

Contractor—A. J. Dalton, 5498 Mission Street. \$3700

ALTERATIONS

(1487) 715 BUSH ST.; alterations to hotel.

Owner—Primo Eposti, 191 Kenwood Way.

Plans by J. P. Wagenet, 1597 Fernwood Drive.

Contractor—A. R. Siggs, 2314 19th Avenue. \$2000

DWELLING

(1489) SW NAGLEE and Huron; 1-story and basement frame dwelling.

Owner—P. Horgan, 915 Pierce St.

Plans by B. K. Dobkowitz, 425 Monterey Blvd. \$5500

APARTMENTS

(1490) SE 45th AVE. and Geary St.; three-story and basement frame (12) apartments.

Owner—M. P. Storheim, 86 Euclid Avenue.

Architect—Irvine & Ebbets, Call Bldg. \$30,000

DWELLING

(1491) E 27th AVE. 225 S Moraga; one-story and basement frame dwelling.

Owner—R. P. Hobbs, 818 Shrader St.

Architect—None. \$3300

DWELLING

(1492) W MOSCOW 98 N Amazon; one-story and basement frame dwelling.

Owner—J. Perasso, 811 Athens.

Architect—None. \$4000

RESIDENCE

(1493) E SAN FERNANDO 55 S St. Francis Blvd.; 2-story and basement frame residence.

Owners—Mr. and Mrs. I. H. Granicher 675 40th Ave.

Architect—Masten & Hurd, 210 Post Street.

Contractor—H. Papenhausen, 595 Victoria St. \$11,000

DWELLINGS

(1494) S JUANITA 329 W Del Sur; two 1-story and basement frame dwellings.

Owner and Builder—Meyer Bros., 727 Portola Drive.

Plans by D. T. Burks, 727 Portola Dr. \$8000

DWELLING

(1495) E ROCKDALE 32 N Omar; 1-story and basement frame dwelling.

Owner and Builder—Meyer Bros., 727 Portola Drive.

Plans by D. T. Burks, 727 Portola Dr. \$4000

ALTERATIONS

(1496) 730 ERYING ST.; alterations and additions to restaurant and store.

Owner—Martin Stelling Jr., 155 Montgomery St.

Architect—Bertz, Winter and Maury, 210 Post St.

Contractor—V. Philippis, 666 Mission Street. \$1500

DWELLINGS

(1497) E TERESITA 86 S Marietta; three 1-story and basement frame

Owner and Builder—Meyer Bros., 727 Portola Drive.

Plans by D. T. Burks, 727 Portola Dr. dwellings. \$12000

DWELLING

(1498) N ROCKDALE 167 W Del Sur; 1-story and basement frame dwelling.

Owner and Builder—Meyer Bros., 727 Portola Drive.

Plans by D. T. Burks, 727 Portola Dr. \$5000

DWELLINGS

(1499) E DARTMOUTH 382 N Silver; two 1-story and basement frame dwellings.

Owner and Builder—Heyman Bros., 742 Market St.

Architect—None. \$7000

DWELLING

(1500) N GILMAN 100 E Hawes; 1-story and basement frame dwelling.

Owner—F. F. Balliet, 810 47th Ave.

Architect—None. \$3500

WAREHOUSE

(1501) NE 18th and YORK STS.; 2-story and basement class B warehouse.

Owner—Challenge Cream and Butter Assn., 807 Montgomery St.

Architect—D. A. Riedy, 821 Market. \$110,000

ALTERATIONS

(1502) 32 O'FARRELL ST.; alterations to store.

Owner—Clifton Co., 1061 Market St.

Architect—None.

Contractor—American Woodworking Co., 2800 20th St. \$2975

DWELLING

(1503) E 22nd AVE. 175 N Santiago; one-story and basement frame dwelling.

Owner—E. M. Hill, 379 4th Ave.

Architect—None. \$3800

CAPITAL CITY TILE COMPANY

J. C. PALEN

Manager

914 Seventh Street

Sacramento - - - California

DWELLING

(1504) W HOLE 250 N Boylton; 1-story and basement frame dwelling.
Owner and Builder—J. Kambic, 500 San Bruno Ave.
Architect—None. \$4200

DWELLING

(1505) N ROCKDALE 270 W Del Sur; 1-story and basement frame dwelling.
Owner—Meyer Bros., 727 Portola Dr. Plans by D. T. Burks, 727 Portola Dr. \$5000

ALTERATIONS

(1506) 72 RONDELL ST.; alterations and additions to dwelling.
Owner—L. Reiche, 72 Rondell Place. Architect—None.
Contractor—Lindgren Bros., 64 Ramon Avenue. \$1000

ALTERATIONS

(1507) 119 SACRAMENTO ST.; alterations to store.
Owner—A. A. Stranton, 119 Sacramento St.
Architect—None.
Contractor—J. S. Malloch, 666 Mission Street. \$4000

BUILDING CONTRACTS

San Francisco County

No.	Owner	Contractor	Amt.
231	Vayssie	Ponsero	2195
232	Franceschi	Pollotti	11150
233	Kaiser	Cohn	13728
234	Stelling	Filippis	19000

ALTERATIONS

(231) 408 ELLIS ST.; alterations to bathroom in building.
Owner—F. A. and A. Vayssie, 3190 Franklin St.
Architect—Fabre and Hildebrand, 110 Sutter St.
Contractor—V. Ponsero, 3 Stark St. Filed Nov. 15, '30. Dated Nov. 14, '30. Rough coat plastered.....\$1000
Completed and accepted.....645
Usual 35 days.....559
TOTAL COST, \$2195
Limit, 60 days. Plans and Spec. filed.

BUILDING

(232) S VALLEJO 68-9 E Mason E 34-9 x S 137-6 50v hlk 157; all work except shades and chandeliers on 5-story and basement frame bldg.
Owner—E. Franceschi, 66 Rico St.
Architect—J. A. Porporato, 619 Washington St.
Contractor—R. Folliotti, 949 Filbert St. Filed Nov. 17, '30. Dated Nov. 10, '30. Rough frame up.....\$2500
Brown coated.....2800
Completed and accepted.....2850
Usual 35 days.....3000
TOTAL COST, \$11,150
Bond, \$6000. Sureties, Valentino Califano and Adolph Nestori. Limit, 90 days. Plans and Spec. filed.

DISTRIBUTING PLANT

(233) 18th and CAROLINA STS.; all work for gravel distributing plant.
Owner—Kaiser Paving Co., 74 New Montgomery St.
Consulting Engineer—L. H. Nishkian, 525 Market St.
Contractor—L. J. Cohn, 1 De Haro St. Filed and Dated Nov. 19, 1930. 1st and 15th of each month.....75%
Usual 35 days.....25%
TOTAL COST, \$13,728
Bond, \$13,728. Sureties, American Bonding Co. of Baltimore. Forfeit, \$50 per day. Limit, 40 days. Plans and Spec. filed.

ALTERATIONS

(234) 730 IRVING ST.; alterations to building.
Owner—Martin Stelling Jr., 155 Montgomery St.

Architect—Bertz, Winter and Maury, 210 Post St.
Contractor—V. Filippis, 269 24th Ave. Filed Nov. 19, '30. Dated Nov. 18, '30. 5th of each month.....75%
Usual 35 days.....25%
TOTAL COST, \$1900
Bond, \$950. Sureties, National Surety Co. Limit, 20 days after Nov. 20, '30. Plans and Spec. filed.

ARCHITECT'S CERTIFICATE

SAN FRANCISCO COUNTY

Nov. 18, 1930—John Davis Wagenet has filed his certificate of architecture for San Francisco County.

COMPLETION NOTICES

San Francisco County

Recorded Accepted
Nov 12, 1930—230 and 240 UPLAND Drive bet Westgate Drive and Manor Drive. Thomas J Sullivan.. to whom it may concern.....November 14, 1930
Nov 14, 1930—S EDDY ST and W 137-6 x S 137-6. Thos F and J J Bell to whom it may concern.....November 14, 1930
Nov 14, 1930—LOT 18 BLK 6803 map of Castle Manor. A K Westendunk Jr to whom it may concern.....November 12, 1930
Nov 14, 1930—2949 LAKE ST. Mrs Geo L Bond to W C Parker.....November 6, 1930
Nov 14, 1930—E RETIRO WAY 50 N Beach. D S Kavanagh to whom it may concern.....November 7, 1930
Nov 14, 1930—NW NAPLES 150 NE Brazil Ave 25 x 100 Blk 47 Excl Hd Assn. Maria Travi to whom it may concern.....November 7, 1930
Nov 13, 1930—LOTS 25 and 26 BLK 2818 Forest Hill Court. Chas F and E G Eulotti to J Proout.....November 10, 1930
Nov 13, 1930—S JEFFERSON ST 192-6 E Broderick St 55x137-6. J and J Fenech to Standard Bldg Co.....November 13, 1930
Nov 13, 1930—E 48th AVE 150 S Santiago S 50 x E 120 OIL 1149. Jean Tignard to whom it may concern.....November 12, 1930
Nov 13, 1930—N BROADWAY 37-6 W Octavia W 35 N 100 W 65 N 25 E 137-6 S 25 W 37-6 S 100 WA 192. Wm B Bosley to Elling Ellingson.....November 10, 1930
Nov 12, 1930—W 17th AVE bet Ulloa and Vicente. The Roman Catholic Archbishop of San Francisco to S Rasori.....Nov 12, 1930
Nov 12, 1930—W NOE 105 S 24th. Myrtle A C Fisher to A R Larson.....Nov 6, 1930
Nov 17, 1930—SW PAGE and Cole 30x106-3. A H Stein and Philip King to whom it may concern.....November 15, 1930
Nov 17, 1930—W DE HARO 191 S 20th S 25 x W 100. J Rudometkin to whom it may concern.....November 17, 1930
Nov 17, 1930—E 29th AVE 100 N Lawton N 25 x E 120. O J Ohlson to whom it may concern.....November 15, 1930
Nov 17, 1930—W 28th AVE 150 N Judah N 25 x W 120. M Heglin to whom it may concern.....November 17, 1930
Nov 17, 1930—LOT 13 BLK 2891 map Laguna Honda Park Addn. J V Campbell to whom it may concern.....November 15, 1930
Nov 17, 1930—BET THIRD and San Bruno Ave and bet Keith and 3rd Sts. Southern Pacific Co to Municipal Const Co.....November 8, 1930
Nov 17, 1930—W 33rd AVE 175 S Ulloa S 50 x W 120 lot 1 blk 2985 map sub No 2 Miraloma Park. Meyer Bros to whom it may concern.....November 13, 1930

Nov. 15, 1930—LOTS 18 AND 20 BLK 4096/4135. California Synodical Society of Home Missions to A B Allen.....Nov. 25, 1930
Nov 15, 1930—NW MAJESTIC AVE 200 NE Lakeview Ave. A R Peterson to whom it may concern.....Nov. 15, 1930
Nov 18, 1930—E PRESIDIO AVE, 72-8 1/2 S Pacific Ave 55 E 110-11 N 55 W 110-11. H H Greenberg to Young & Horstmeyer.....November 17, 1930
Nov 18, 1930—N FRANCE AVE 75 and 100 E Athens 25x100. Gus G Johnson to whom it may concern (two completions).....November 17, 1930
Nov. 18, 1930—E CAROLINA 200 N Twenty-second N 50x100. Russian Association of Spiritual Christians of Regular Molokans in San Francisco, Corp. to whom it may concern.....Nov. 18, 1930
Nov. 18, 1930—E POLK 55 N Filbert 27-6x70. J L A. H A and G Scheper to P Fetz; Levy Elec Constr Co and K Koerber.....November 14, 1930
Nov. 18, 1930—SE MARKET and NE Ecker NE 100xSE 155. Crocker Estate Co to whom it may concern.....Nov. 17, 1930
Nov. 18, 1930—S BAY 70 E Jones P 50xS 99. Commercial Centre Realty Co to R McLeran & Co.....November 17, 1930
Nov 18, 1930—S BEACH 100 N 80' 54' E 176.690 from pt formed by int S Beach if produced W with NE Cervantes Blvd if produced NW N 80' 54' E 30 S 9' 6' E 81.969 Ptn Marina Gardens. Emma and James W McCabe to whom it may concern.....Nov. 15, 1930
Nov. 18, 1930—NW HARKNESS & Brussels. Constantinos Moustakopoulos to P Fetz.....Nov. 18, 1930
Nov. 18, 1930—LOT 5 BLK 3273 Map Biks 3260, 3263, 3273 and 3274. Monterey Heights. George W and Josephine Stanley to whom it may concern.....Nov. 17, 1930
Nov. 18, 1930—COAL 175 S VICENTE and 127-6 E 15th Ave S 50xSE 127-6. Dennis Carlin to P J Phelan.....November 14, 1930

LIENS FILED

San Francisco County

Recorded	Amount
Nov 14, 1930—N 21st ST 200 East Church E 30 x N 114. M Berman vs H Tillman and A R Larson.....	\$540.50
Nov 14, 1930—E FILLMORE ST 87-6 N Fulton ST N 50 x E 112-6. C D Lieb as Eagle Electric Co vs Sol Schwartz and R Royster.....	\$83.56
Nov 14, 1930—E NINTH AVE 125 N Noriega ST N 25 x E 120. Inlaid Floor Co vs W C Jewett, H S Klingspor and P Loeweralt.....	\$129.71
Nov 13, 1930—NW TURK and Fillmore N 85 x W 130-9. Malott & Peterson vs B Davidson.....	\$38
Nov. 15, 1930—NE SAN BRUNO AVE 375 NW Thornton Ave NW 50xNE 100. H M. A W and N Schwab vs G Anderson.....	\$600
Nov. 15, 1930—E NINTH AVE 125 N Noriega N 25x120. Sudden Lumber Co vs H S Klingspor.....	\$108.98
Nov. 18, 1930—E NINTH AVE 125 N Noriega Ave N 25x120. M G Peck vs H S and E Klingspor.....	\$400

RELEASE OF LIENS

San Francisco County

Recorded	Amount
Nov 12, 1930—W BAKER 112-6 N Hayes N 25 x W 121-10 1/2. E K Nelson to Alois Schneider.....	

Nov 13, 1930—SW GREENWICH & Leavenworth Sts W 100 x S 100. F Santina to H C Tibbetts.
 Nov 14, 1930—E 14th AVE 150 N Vicente N 37-6 E 90-907 S 40-397 W 75-833; E 18th AVE 39-2 S Quintara S 30 x E 120; S Vicente 52-6 W 14th AVE W 25 x S 100; S Vicente 27-6 W 14th AVE W 25 x S 100; SW Vicente and 14th AVE W 27-6 x S 100. P Ceragioli to G J Elkington, G J Elkington, Jr, & J Elkington & Sons.
 Nov 17, 1930—W HAMPSHIRE ST 262-6 S Mariposa St N 100 x W 200. R H Harms to whom it may concern.
 Nov. 18, 1930—SE VESTA AVE 125 SW Thornton Ave — 50 SE 180 NE 52-05 N9 192. M Ferrando to A L Stahl and M A Amaya.
 Nov 18, 1930—E THIRD AVE 75 S Cornwall S 25 x E 82-6. H Epstein & Son to F E and E L Thompson

BUILDING PERMITS

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
1415	Dooley	Owner	3000
1416	Johanson	Owner	2000
1417	White	Owner	2000
1418	Lazenby	Owner	2500
1419	Kaleski	Hopper	30000
1420	Standard	Owner	4000
1421	McCabe	Owner	2750
1422	Walker	Owner	4900
1423	Smith	Converse	5000
1424	Norhelm	Owner	8500
1425	Fleming	Owner	3000
1426	Panos	Sommarmstrom	2000
1427	Biggi	Nunes	4000
1428	Lapham	Lapham	10000
1429	Pestana	Harwood	2000
1430	Raab	Owner	1800
1431	Sorensen	Owner	2000
1432	Smith	Owner	1500

DWELLING

(1415) W GUIDO ST. 200 N 35th AVE. OAKLAND; 1-story 5-room dwelling.
 Owner and Builder—Fred T. Dooley, 3936 Vale Ave., Oakland.
 Architect—None. \$3000

ALTERATIONS

(1416) 9232 CHERRY St., OAKLAND; alterations and addition.
 Owner and Builder—K. A. Johanson, 2832 76th Ave., Oakland.
 Architect—None. \$2200

ALTERATIONS

(1417) SE COR. 12th and Franklin Sts., OAKLAND; store front alterations.
 Owner—White Cabin Lunch Co., 12th and Franklin Sts., Oakland.
 Architect—Hardman & Russ, Bank of America Bldg., Berkeley. \$3000

DWELLING

(1418) S MORSE DRIVE 95 W 61st AVE. OAKLAND; two-story four-room dwelling.
 Owner and Builder—S. B. Lazenby, 2733 61st Ave., Oakland.
 Architect—None. \$2500

ALTERATIONS

(1419) 5631 COLLEGE AVE., OAKLAND; alterations.
 Owner—Kalisli & Harband.
 Architect—A. A. Cantin, 544 Market St., San Francisco.
 Contractor—A. J. Hopper, 1769 Pleasant Valley Ave., Oakland. \$30,000

SERVICE STATIONS

(1420) NE COR. LAKESHIRE AVE. and E 12th St., OAKLAND; two one-story brick service stations.
 Owner—Standard Oil Co., 1916 Broadway, Oakland.
 Architect—None. each \$2000

DWELLING

(1421) E MORCOM AVE., 140 South Camden St., OAKLAND; 1-story 5-room dwelling.
 Owner and Builder—J. D. McCabe, 3457 Mountain Blvd., Oakland.
 Architect—None. \$2750

RESIDENCE

(1422) NO. 611 EUCLID AVE., BERKELEY. One-story 5-room 1-family frame residence and garage.
 Owner—J. M. Walker, 1709 Grove St., Berkeley.
 Architect—None. \$4900

RESIDENCE

(1423) NO. 2380 MARIN AVE., BERKELEY. One-story 6-room one-family frame residence.
 Owner—J. Smith, 1580 Trestle Glen Road, Berkeley.
 Architect—None.
 Contractor—E. R. Converse, 1088 53rd St., Oakland. \$5000

RESIDENCE

(1424) 815 SAN DIEGO RD., BERKELEY. One-story seven-room and stucco residence.
 Owner and Builder—Ray H. Norhelm, 1207 Bonita Ave., Berkeley.
 Plans by Owner. \$8500

DWELLING

(1425) N PENNIMAN AVE. 200 W 38th Ave., OAKLAND; one-story 6-room dwelling and 1-story garage.
 Owner and Builder—John Fleming, 4261 Suter St., Oakland.
 Architect—None. \$3600

ALTERATIONS

(1426) 1209 FIFTH AVE., OAKLAND alterations.
 Owner—Louis and Gust Panos.
 Architect—None.
 Contractor—Sommarmstrom Bros. Co., 2924 San Pablo Ave., Oakland. \$2000

ADDITION

(1427) 5525 TELEGRAPH AVENUE, OAKLAND; addition.
 Owner—J. Biggi, 5535 Telegraph Ave., Oakland.
 Architect—None.
 Contractor—Geo. W. Nunes, 5430 Dover St., Oakland. \$4000

DWELLING

(1428) 906 PARAMOUNT RD., OAKLAND; two-story 8-room dwelling.
 Owner—A. R. Lapham, 947 Hillcroft Circle, Oakland.
 Architect—None.
 Contractor—Theo. H. Lapham, 546 Kenmore Ave., Oakland. \$10,000

SERVICE STATION

(1429) NE COR. 33rd AVE. and E 12th St., OAKLAND; one-story brick service station and 1-story comfort station.
 Owner—John Pestana, 1232 35th Ave., Oakland.
 Architect—None.
 Contractor—W. P. Harwood, 3514 Lyon Ave., Oakland. \$2000

DWELLING

(1430) SE COR. 35th AVE. and Harper St., OAKLAND; one-story 4-room dwelling.
 Owner and Builder—Geo. Raab, 624 Hobart St., Oakland.
 Architect—None. \$1800

DWELLING

(1431) 1015 62nd ST. (rear), OAKLAND; one-story 3-room dwelling.
 Owner and Builder—Carl A. Sorensen, 1015 62nd St., Oakland.
 Architect—None. \$2000

SHED

(1432) FOOT of 18th AVE., OAKLAND; one-story shed.
 Owner and Builder—Smith Lbr. Co., foot of 18th Ave., Oakland.
 Architect—Noe. \$1500

BUILDING CONTRACTS

No.	Owner	Contractor	Amt.
136	Kalisli	Hopper	24382
137	Washington	Price	1530
138	Same	Moening	8700
139	Scientist	Cedarburg	22100
140	Breuner	Courtright	12990

ALTERATIONS

(136) 5831 COLLEGE AVE., Oakland; alterations and additions, including electrical work and decorating theatre building.
 Owner—Kalisli-Harband Theatre Co., Oakland.
 Architect—A. A. Cantin, 544 Market St., San Francisco.
 Contractor—Alfred J. Hopper, 1769 Pleasant Road, Piedmont.
 Filed Nov. 14, '30. Dated Nov. 12, '30.
 1st and 15th of each month. 75%
 Usual 35 days. Balance
 TOTAL COST, \$24,332
 Bond, \$24,332. Sureties, Fidelity and Casualty Co. of N. Y. Limit, Dec. 31. Plans and Spec. filed.

SHOWERS, ETC.

(137) WASHINGTON UNION HIGH School, Centerville. All work for furnishing and installing steel shower stalls, etc., in gymnasium building.

Owner—Washington Union High School District of Alameda County
 Architect—Birge M. Clark, 310 University Ave., Palo Alto.
 Contractor—L. H. Price (as Price Bldg. Specialists Co., 683 Howard St., San Francisco.
 Filed Nov. 15, '30. Dated Aug. 7, '30.
 1st of each month. 75%
 Usual 35 days. Balance
 Bonds, performance, \$765; labor and materials, \$765. Surety, Great American Indemnity Co. Limit, Aug. 25, 1930. Forfeit, none. Plans and specifications, none.

(138) ALL WORK FOR EXTENSION and addition to heating plant on above.

Contractor—M. G. Moening, 994 S First St., San Jose.
 Filed Nov. 15, '30. Dated Aug. 7, '30.
 Payments same as above.

TOTAL COST, \$3700
 Bonds, performance, \$4350; labor and materials, \$4350. Surety, American Surety Co. of N. Y. Limit, forfeit, plans and specifications, none.

ALTERATIONS

(139) EAST 17th STREET and Fruitvale Ave., Oakland; construction of two vestibules and connecting foyer, new and remodeled check rooms and attic store room with stairway and new Sunday School porch for church building.
 Owner—Third Church of Christ Scientist, 1642 Fruitvale Ave., Oakland.

Architect—Henry E. Guttererson, 526 Powell St., San Francisco.
 Contractor—A. Cedarburg, 1455 Excelsior Blvd., Oakland.

Filed Nov. 17, '30. Dated Nov. 17, '30.
 15th of each month. 75%
 Usual 35 days. Balance
 TOTAL COST, \$22,100
 Limit, 90 days. Plans and Spec. filed.

DWELLING

(140) LOT 16, Requa Highlands, Piedmont; general construction on 2-story frame and stucco dwelling.

Owner—R. W. Breuner, 4 Craig Ave., Piedmont.
 Architect—Miller & Warnecke, Financial Center Bldg., Oakland.
 Contractor—T. D. Courtright, 5098 Manilla Ave., Oakland.
 Filled and Dated Nov. 19, 1930.
 When 2nd floor joists are placed.....\$3247.50
 When brown coated.....\$247.50
 When completed.....\$247.50
 Usual 35 days.....\$247.50
TOTAL COST, \$12,990
 Bond, \$12,990. Sureties, National Casualty Co. Limit, 100 days. Plans and Spec. filed.

COMPLETION NOTICES

Alameda County

Recorded	Accepted
Nov 17, 1930—SW CLEVELAND & Ahol Ave, Oakland. A H Gage to W E Lyons.....November 14, 1930	
Nov 17, 1930—LOT 19 BLK B, Estudillo Estates, San Leandro. J J Power to whom it may concern.....November 15, 1930	
Nov 15, 1930—LOT 26 BLK 1, Thousand Oaks Heights, Berkeley. Dorothy G Hooper to John R Porter.....November 14, 1930	
Nov 15, 1930—LOT 50 BLK 6, Thousand Oaks Heights, Berkeley. Helen and Fuller Weston to Earl M Converse.....November 10, 1930	
Nov 15, 1930—WASHINGTON Union High School Grounds, Centerville. Board of Trustees of Washington Union High School Dist of Alameda County to Price Building Specialties Co, M G Moenning (2 completions).....November 12, 1930	
Nov 14, 1930—S PROSPECT 100 ft E of Kenwyn Road, Oakland. Wm Painter Jr to whom it may concern.....October 29, 1930	
Nov 14, 1930—LOTS 30, 31 and 32 Blk 8, Allendale Tract, Oakland. George A and Lillian Tyler to E D Isakson.....November 10, 1930	
Nov 14, 1930—2112 EUNICE Street, Berkeley. De Loss W and Esther Lee to R C McBride Jr.....November 12, 1930	
Nov 14, 1930—PTN LOTS 21, 22, 23 and 24 Blk 45, Higley's map of Clinton, Oakland. P H Middents to The Independent Iron Works.....November.....1930	
Nov 13, 1930—LOT F-78, Fairway Estates in Oak Knoll, Oakland. C P and G G Allen to whom it may concern.....November 8, 1930	
Nov 13, 1930—E LENOX AVE 250-55 ft SE of Montecito Ave, Oakland. Albert and Emily Kroll to whom it may concern.....November 12, 1930	
Nov 13, 1930—LOT F-132, Fairview Estates in Oak Knoll, Oakland. Ethel L Church to Theo R Dleneger.....November 7, 1930	
Nov 17, 1930—LOT 7 BLK B, Lakewood Park, Piedmont. Jacquelyne J Duncan to whom it may concern.....November 10, 1930	
Nov 18, 1930—LOTS 23 and 29, Stanford Tract No 2, Oakland. Cora M Lewis to whom it may concern.....November 17, 1930	
Nov 18, 1930—ALL LOT 91 and SW 40 ft. of Lot 90, Upper Piedmont Estates, Piedmont. H C Jones to Albert A Haskell.....Nov 12, 1930	
Nov 18, 1930—1921 SCOTT ST, Oakland. Martha L Holmes to R A Bissell.....November 12, 1930	
Nov 18, 1930—LOT 6 BLK 55, Alameda Park Homestead, Alameda. Anna and Fillmore Arada to A W Schneck.....November 17, 1930	
Nov 18, 1930—LOT 143, Broadmoor Park, San Leandro. P B Weaver to whom it may concern.....November 8, 1930	
Nov 18, 1930—LOT F-103, Fairway Estates in Oak Knoll, Oakland. Lloyd Wilson Appar to Alfred Peterson.....November 8, 1930	

LIENS FILED

Alameda County

Recorded	Amount
Nov 14, 1930—SE 47th and SAN Pablo Ave, Emeryville. George S Pittcock & Son Ltd, \$33.75; Mastcraft Tile & Roofing Co, \$57.50 to Solomon Garfinkel, C E Pugh.....\$21	
Nov 14, 1930—SE 47th and SAN Pablo Ave, Emeryville. Louis Stagnaro to S Garfinkel, Ed Carter and Chas Pugh.....\$21	
Nov 13, 1930—PTN LOT 34, map No 2 of the Glen Echo Tract, Oakland. Berkeley Building Materials Co to Axel Sommarstrom, John Vallance, Weeks Const Co.....\$500	
Nov 13, 1930—PTN LOT 34, map No 2 of the Glen Echo Tract, Oakland. H E Lansing to R G Weeks John and James Vallance.....\$32.12	
Nov 13, 1930—PTN LOT 34, map No 2 of the Glen Echo Tract, Oakland. Axel Sommarstrom, \$2610.85; A K Goodmundson, \$153, to John Vallance, Weeks Const Co.....\$21	
Nov 13, 1930—PTN LOT 34, map No 2 of the Glen Echo Tract, Oakland. L F Witham, \$102; Superior Tile & Products Co, \$100; Fay City Asbestos Co Inc, \$37.50, to John and James Vallance.....\$182.44	
Nov 12, 1930—SW LE ROY AVE and Virginia St, Berkeley. Sheet Metal Service Co to E Larmer.....\$66.25	
Nov 12, 1930—LOT 9 BLK B, Rooney Tract, Berkeley. Jas A Davis and T A Nichelman as Jas A Davis Co vs V Mariani, D D Johnson, C H French.....\$12.04	
Nov 12, 1930—LOT 8 BLK B, Rooney Tract, Berkeley. Geo S Pittcock & Son vs V Mariani, D D Johnson, C H French.....\$182.44	
Nov 18, 1930—2420 VIRGINIA ST, Berkeley. Parquet Inlaid Floor Co vs A G Tweedt, Henry Tweedt.....\$394	
Nov 18, 1930—LOT 7 BLK 8, Daley's Scenic Park, Berkeley. Fred Bell vs C G and Ethel M Tweedt, H Tweedt.....\$190.25	
Nov 18, 1930—2420 VIRGINIA ST, Berkeley. H Clappitt vs C G and Ethel M Tweedt, H Tweedt.....\$90	
Nov 18, 1930—2420 VIRGINIA ST, Berkeley. Guy Tyler, \$366; C T Bell, \$46, vs C G and Ethel M Tweedt, H and Henry Tweedt.....\$391.51	
Nov 17, 1930—2420 VIRGINIA ST, Berkeley. D E Doyle, \$267; Tom Doyle, \$297, vs C G and Ethel M Tweedt, Henry E Tweedt.....\$184	
Nov 17, 1930—LOT 7 BLK 8, Daley's Scenic Park, Berkeley. Berkeley Building Materials Co vs L J Alexander, Henry E Tweedt, C G Tweedt.....\$391.51	
Nov 17, 1930—2468 HILLARD ST, Berkeley. Tom Doyle vs C G and Ethel M Tweedt, Henry E Tweedt.....\$184	
Nov 17, 1930—PTN LOTS 1 and 2 Blk O, Fruitvale Blvd Tract, Oakland. Berkeley Building Materials Co vs Thomas D Fisher, D F Driscoll.....\$240	
Nov 17, 1930—LOT 365 BLOCK T, Fernside Tract, Alameda. Markus Hadwe Co vs H S and Hans C Hansen and Henry Schwab.....\$47.20	
Nov 15, 1930—LOT 12, Cogshall Tract, Oakland. Al M Pearey vs Sullivan Garfinkel, C E Pugh, \$132.50 to Solomon Garfinkel, C E Pugh.....\$132.50	
Nov 15, 1930—LOT 7 BLK 8, Daley's Scenic Park, Berkeley. Earl A Tweedt, \$810.23; Robert E Turner, \$189, vs C G and Ethel M Tweedt, Henry E Tweedt.....\$82	
Nov 14, 1930—LOT 7 BLK 2193/8, Daley's Scenic Park, Berkeley. Barker Tank & Pipe Co vs C G Tweedt, H Tweedt.....\$82	

RELEASE OF LIENS

Alameda County

Recorded	Amount
Nov 17, 1930—LOT 12, Cogshall Tract, Emeryville. Thiden Lumber Co to	

Solomon Garfinkel, C E Pugh.....	\$162.24
Nov 14, 1930—SE 47th and SAN Pablo Ave, Emeryville. Jas A Davis Co to Solomon Garfinkel alias Solomon Garfinkel.....	\$571.61
Nov 14, 1930—SE 47th and SAN Pablo Ave, Emeryville. Schnoor Bros to Solomon Garfinkel alias Solomon Garfinkel, C E Pugh, E Carter, Charles Pugh.....	\$157.50
Nov 14, 1930—SE 47th and SAN Pablo Ave, Emeryville. U S Elec Co to Solomon Garfinkel, George Bruno, Ed Carter, C E Pugh.....	\$417.69

BUILDING CONTRACTS

SAN MATEO COUNTY

BUNGALOW

LOT 1 BLK 9, Eagle Hill Addition, San ateo. All work for one-story frame and rustic bungalow and garage.
 Owner—R. H. Sanderson, 203 Jackson St., Redwood City.
 Plans by B. Norburg, 832 orrell St., Burlingame.
 Contractor—Harry C. Yates, Menlo Park.
 Filled Nov. 15, '30. Dated Aug. 7, '30.
 Roof on.....\$320
 Plastered.....\$20
 Completed.....\$20
 Usual 35 days.....\$20
TOTAL COST, \$3680
 Bond, none. Limit, 60 working days.
 Forfeit, none. Plans only filed.

STATION

LOTS 14, 15, 16 AND 17 BLK 1, Bay View Heights, San Mateo. All work for Spanish type super station.
 Owner—Louis J. Athkinson et al.
 Plans by Chas E. Schwartz, 1125 Highway, Redwood City.
 Contractor—Louis N. Pollard, 55 Brewster St., Redwood City.
 Filled Nov. 15, '30. Dated Nov. 12, '30.
 As work progresses.....75%
 Usual 35 days.....25%
TOTAL COST, \$8000
 Bond, none. Limit, 60 working days.
 Forfeit, none. Plans and specifications filed.

ALTERATIONS

W ELM ST, S Cypress Ave., San Carlos
 All work for alterations and addition to one-story frame and stucco building.
 Owner—Town of San Carlos.
 Architect—E. L. Norberg, 580 Market St., San Francisco.
 Contractor—Moody J. Henry, 132 Bancroft St., Burlingame.
 Filled Nov. 13, '30. Dated Nov. 10, '30.
 As work progresses.....75%
 Usual 35 days.....25%
TOTAL COST, \$11,250
 Bonds (2) \$5629. Surety, The Aetna Casualty Co. Limit, 75 working days.
 Forfeit, \$10. Plans and specifications filed.

BUILDING PERMITS

SAN MATEO

RESIDENCE, \$4500; Lot 1 Blk 21, So. Grout St., San Mateo; owner and contractor, Lengfeld & Olund, 145 El Camino, San Mateo.
 ADDITION, \$1200; Lot 35, Hachingsham St., San Mateo; owner and contractor, C. H. Bessett, 826 Walnut St., San Mateo.
 BUNGALOW, \$5000; Lot 9, No. 917 S Idaho St., San Mateo; owner, Paul Wernher; contractor, L. A. Belcher 4th Ave., San Mateo.
 RESIDENCE, \$7000; Lot 9, No. 1226 Shafter St., San Mateo; owner, Charles Connors.

OFFICE, warehouse and garage, \$9000
Lots 4, 5 (7) No. 855 Woodside
Way San Mateo, owner, H. E.
Casey & Co. 307 B St., San Mateo;
contractor, Albert M. Schulte, La
Cumbre St., San Mateo.
BUNGALOW, \$4000; Lot 45, No. 1237
Oak St., San Mateo; owner, and
contractor, J. E. Cooksey, 538 S-
Humboldt St., San Mateo.

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded	Accepted
Nov. 8, 1930—LOT 4 BLK 10, Bay-	wood. Charles Hammer to whom
it may concern.	Nov. 7, 1930
Nov. 8, 1930—PART LOT 11 BLK	Map of Bowle Estate No. 1, San
Mateo. John I. Bromfield to G W	Williams Co.
Nov. 10, 1930—PART LOT 1 BLK 46	San Mateo Villa Park. Dean
Mitchell et al to whom it may	concern.
Nov. 6, 1930	
Nov. 10, 1930—PART BLK 26, San	Mateo. E H James to whom it
may concern.	Nov. 10, 1930
Nov. 10, 1930—LOT 9 BLK 1, Dun-	can Park, San Mateo. Charlie
Augelini to Frank Silno & Son.	
Nov. 8, 1930	
Nov. 12, 1930—LOT 4 BLK 16, Bay-	wood. Charles Hammer to whom
it may concern.	Nov. 10, 1930
Nov. 12, 1930—LOT 5 BLK 18, Lo-	mita Park. A C Brandt to
whom it may concern.	Nov. 6, 1930
Nov. 12, 1930—LOT 4, Peninsula	Manor. J L Debenedett to whom
it may concern.	Nov. 7, 1930
Nov. 12, 1930—LOT 9 BLK 9, Bur-	lingame Grove, Moody J Henry to
whom it may concern.	Nov. 12, 1930
Nov. 12, 1930—LOT 22 BLK 14, Hill-	crest. Harry Shiparo to whom it
may concern.	Nov. 6, 1930
Nov. 13, 1930—LOTS 48 AND 49 BLK	4, San Bruno Park. H H Jepsen
to whom it may concern.	Nov. 12, 1930
Nov. 14, 1930—LOT 2-A, Burlingame	Heights. Wm L Writz to Wallace
Waterhouse.	Nov. 13, 1930
Nov. 14, 1930—LOT 9 BLK 4, Hay-	ward Addition, San Mateo. Mary
Belle French to whom it may con-	cern.
Nov. 14, 1930	
Nov. 15, 1930—VISITATION VAL-	ley. Pacific Bone, Coal & Fertil-
izing Co to Barrett & Hillp.	Sept. 16, 1930
Nov. 14, 1930—LOT 4 BLK 1, Menlo	Park Terrace, San Mateo. Jacob
Borman Jr et al to whom it may	concern.
Nov. 5, 1930	

LIENS FILED

SAN MATEO COUNTY

Recorded	Amount
Nov. 15, 1930—LOTS 14 AND 15	Blk 2, Bay View Heights, W H
Medley, \$1359.05; G Adolphson,	\$1541.35 vs Martin Peterson.
Nov. 15, 1930—PART LOT 20, San	

Mateo Park. Nick Sesevich,	\$201.40; San Mateo Feed & Fuel
Co, \$18.51 vs Thomas A Cavanagh	Nov. 8, 1930—LOT 33 BLK 22, Bel-
monti. Levy Bros vs F W Sear-	linger et al.
Nov. 10, 1930—LOT 33 BLK 2, Bel-	monti. Lafferty & Wilson vs F W
Searlinger et al.	\$264
Nov. 10, 1930—LOT 21 BLK 5, Bay-	wood. Levy Bros vs Edward Ran-
son Cavanasso.	\$61
Nov. 10, 1930—LOT 10 BLK 48, Lyon	& Hoag Sub, Burlingame. S Rossi
vs M Cobral.	\$530
Nov. 13, 1930—LOTS 19 AND 20 BLK	149, South San Francisco. C R
Beatty, \$280.02; Silvio Minetti,	\$140.05 vs Sam Simon et al.
Nov. 13, 1930—LOT 6 BLK 125, South	San Francisco The Fink Corp vs
S Nerl Co.	\$411.70

BUILDING CONTRACTS

SANTA CLARA COUNTY

GARAGE
LOTS 28 AND 29 BLK 50, College
Terrace, Palo Alto General work
for reinforced concrete garage.
Owner—Pierre and Aline Casaurang,
318 Emerson St., Palo Alto.
Architect—None.
Contractor—Geo. B. Moore, 531 Stan-
ford Ave., Palo Alto.
Filed Nov. 8, '30. Dated Nov. 3, '30.
Concrete poured. \$2750
Roof sheathed. 2750
Building completed. 2750
Usual 35 days. TOTAL COST, \$11,000
Bond, none. Limit, 70 working days
from Nov. 3, 1930. Forfeit, none.
Specifications only filed.

STORE
LOT 27 BLK 50, College Terrace, Palo
Alto. General work for reinforced
concrete store building.
Owner—M. C. & Mathilda A. Laurid-
sen.
Architect—None.
Contractor—Geo. B. Moore, 531
Stanford Ave., Palo Alto.
Filed Nov. 8, '30. Dated Nov. 3, '30.
Concrete walls poured. \$1562
Roof on, plastering finished. 1562
Building Completed. 1562
Usual 35 days. TOTAL COST, \$6250.00
Bond, none. Limit, 60 days from Nov.
3, 1930. Forfeit, none. Specifications
only filed.

RESIDENCE
LOTS 16 AND 17 BLK 204, South
Court Addition, Palo Alto. All
work for residence and garage.
Owner—Mrs. Louise Baker Short.
Architect—Charles K. Sumner, 57 Post
St., San Francisco.
Contractor—Edward J. Schmaling, 563
Melville Ave., Palo Alto.
Filed Nov. 10, '30. Dated Oct. 30, '30.
Frame completed. \$2825
2nd coat plaster on. 2825
Work completed. 2825
Usual 35 days. TOTAL COST, \$11,300

Bond, \$5650. Sureties, Irving C. Lewis
and Mrs. Louise B. Grove, Limit,
forfeit, none. Specifications only filed.

CHURCH

PTN LOT 5 BLK 82, being N Addi-
tion St., beginning 50 ft. S from
intersection of Addison and
Guinda Streets, being 100x150 feet,
Palo Alto. All work for church.
Owner—Palo Alto Branch of the Cal-
ifornia Mission of the Church of
Jesus Christ and Latter Day
Saints.

Architect—None.

Contractor—The Minion Co., Mt. View
Filed Nov. 10, '30. Dated Nov. 8, '30.
Foundation completed. \$3300
Frame completed. 3300
Plastering completed. 3300
Entire work completed. 3300
Usual 35 days. TOTAL COST, \$16,539

Bond, \$16,539. Sureties, Elizabeth D.
Minton and L. D. McConnell, Limit,
90 days. Forfeit, none. Plans and
specifications filed.

COMPLETION NOTICES

SANTA CLARA COUNTY

Recorded	Accepted
Oct. 31, 1930—LOT 16 BLK 7, North	Glen Residence Tract, San Jose.
George D. McCrary to whom it	may concern.
Oct. 31, 1930—LOT 43 BLK 100, Palo	Alto. O R Ogren to whom it may
concern.	Oct. 30, 1930
Oct. 31, 1930—NW FIFTEENTH &	North Sts, San Jose. P M Ta-
kalchi to whom it may concern.	Oct. 24, 1930
Oct. 31, 1930—LOT 8, Maurer Subd.	San Jose. Carl C Maurer to whom
it may concern.	Oct. 28, 1930
Nov. 3, 1930—LOT 7 BLK 82, Breck	Subd., Palo Alto. Henry Harala
to whom it may concern.	Nov. 3, 1930
Nov. 3, 1930—LOT 11 and N 1119 ft	Lot 10, L. E. Appleton Addn to
Naglee Park, San Jose. T J Cal-	lahan to whom it may concern.
October 30, 1930	
Nov. 3, 1930—LOT 13 BLK 1, Sun-	nyside Addition, Palo Alto. Paul
M P Merner to whom it may con-	cern.
Nov. 3, 1930—ONE 165.68 NW 65.14 SW	to NE Gordon Ave SE 75 to Bg,
Part Lot 13, Hillcrest. Robert	Southern et al to whom it may
concern.	Nov. 3, 1930
Nov. 5, 1930—0.95 ACRE E Sunol	St. 91.80 N San Carlos St, San Jose
Williams & Russo, Inc to whom	it may concern.
Oct. 30, 1930	
Nov. 6, 1930—LOTS 55, 56, 56-A, 63	and 64, Colony Tct, Monta Vista.
John Lingenfelder et al to whom	it may concern.
Nov. 6, 1930—W FIRST ST., bet.	San Fernando and Post Sts., San
Jose. L Bloom Sons Co. Inc to	whom it may concern.
Nov. 5, 1930—MARGARET ST near	Fifteenth St., San Jose. George
L Barry to whom it may concern.	Nov. 5, 1930
Nov. 8, 1930—E BRYANT ST, 100	S California Ave being all Lot 4
and pt Lot 42, Laumeister Subd	of Seale Tract No. 7, Palo Alto.
Latha Sam and Edna W True to	whom it may concern.
Oct. 31, 1930	
Nov. 10, 1930—LOTS 13 & 14 BLK	29, College Terrace, Palo Alto.
W R Bartley and R W Stenbit to	whom it may concern.
Nov. 6, 1930	
Nov. 10, 1930—LOTS 13 TO 15 BLK	1 R 4 S, Bailey Addn; also part
Blk 1 R 4 S, Bailey Addn, Moun-	tain View. Redwine Motor Co to
whom it may concern.	Oct. 18, 1930
Nov. 12, 1930—LOT 5 BLK W, Los	Altos, Country Club Properties.

Member Insurance Brokers' Exchange

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490 GEARY STREET

Phone FRanklin 9400

San Francisco

Kathryn Nielsen to whom it may concern.....November 3, 1930
 Nov 12, 1930—NE JACKSON AND 15th Sts., San Jose. J W Allen to whom it may concern.....Nov 12, 1930
 Nov 12, 1930—LOT 26 Eyerley Tract, Milton A Arstadt et al to whom it may concern.....November 10, 1930
 Nov 13, 1930—LOT 249 Cottage Grove Tract, Antonio Rizzo et al to whom it may concern.....November 12, 1930
 Nov 13, 1930—S SAN PERANDO bet 1st and Market Sts, San Jose. S. C. Jose Hardware Co to whom it may concern.....November 10, 1930

LIENS FILED

SANTA CLARA COUNTY

Recorded	Amount
Oct. 31, 1930—0.28 ACRE part of Sec 9 T 9 S R 1 W. Jones C Montgomery vs R V Montgomery et al	\$176.75
Nov. 2, 1930—19.746 ACRES part Sec. 34 T 7 S R 1 W, San Jose. Central Supply Co vs E R Kennedy	\$40
Nov. 5, 1930—W FOURTH ST. 173 N Santa Clara St., San Jose. C J Thelen vs Joseph Newman et al	\$213.43
Nov. 7, 1930—N SANTA CLARA ST. 76.38 E Autunn St., San Jose. William Ehlerst vs J D Shaw.	\$50.01
Nov. 7, 1930—N SANTA CLARA ST. 76.38 E Autunn St., San Jose. Garden City Glass Co vs J D Shaw	\$86.90
Nov. 8, 1930—LOTS 1 AND 2 BLK 31, College Terrace, Palo Alto. Frank A Grunert vs Frederick F Abblitt	\$67
Nov. 10, 1930—W FOURTH ST. 173 N Santa Clara St., San Jose. R E Kendall vs Joseph Newman et al	\$59.10
Nov. 10, 1930—LOT 16 BLK 62, Seale Addition No. 2, Palo Alto. V Holling vs Robert Neil	\$59.10
Nov. 13, 1930—17.89 ACRE PT LOT 3 Pearl Rich Subdiv No 1. Borchers Bros vs Pietro Rubino.	\$1030.33

BUILDING PERMITS

BURLINGAME

BUNGALOW, \$4000; Lot 15 Blk 8, Laguna Ave., Burlingame; owner, T. J. Bennett, Skyline Blvd., Woodside; contractor, I. Sorenson
 GAS STATION, \$3500; Lot 5 Blk 13, California Drive, Burlingame; owner and contractor, Bert Bishop.
 GARAGE, \$2000; Mayshore Highway, Burlingame; owner and contractor, Chas. Maskell, 418 Grand St., San Mateo.
 RESIDENCE, \$6000; Lot 7 Blk 6, Winchester St., Burlingame; owner, and contractor, G. B. Childs, 2718 Hillside St., Burlingame.

BUILDING PERMITS

REDWOOD CITY

DWELLING, 2-story frame, 6 rooms, 3 baths, garage, \$7000; 827 Arlington Road; owner, Rev. Jesse R. Rudkin; contractor, M. C. Vander-Kamp.
 DWELLING, frame, 6 rooms, bath, garage, \$6000; 203 Oakdale; owner and builder, E. Stromquist.
 DWELLING, frame, 6 rooms, bath, garage, \$4500; 215 Oakdale; owner, C. F. Magne, 410 Sunny Slope Blvd., Belmont; contractor, same.
 DWELLING, frame, 5 rooms, bath, garage, \$4000; 327 Hudson; owner and builder, David Holder, 30 Hillcrest, Redwood City.
 DWELLING, frame, 5 rooms, bath, garage, \$3000; 629 Lexington Ave.,

owner and builder, L. F. Bourquin 211 Bradford, Redwood City.
 DWELLING, frame, 6 rooms, bath, garage, \$3500; 303 Jetter, owner, John Quinby; contractor, John Manning.
 ADD to store building, \$1000; 37 Willow; owner, F. Ferres; contractor, A. Aragon.
 ALTERATION and addition to dwelling, garage, \$250; 538 Whipple Ave.; owner, Wilbur D. Keith, 335 Whipple Ave., Redwood City.

BUILDING PERMITS

PALO ALTO

CHURCH, stucco, \$20,000; 771 Addison Ave.; owner, Church of Jesus Christ of Latter Day Saints; contractor, The Minton Co., 243 Hamiliton Ave., Palo Alto.

BUILDING PERMITS

SAN JOSE

RESIDENCE, 5-room frame, \$4500; 30th and Shortridge; owner, I. J. Curry, Rt. 1, Box 786, R. F. D., San Jose.
 RECREATION and business building, class C, \$34,945; Santa Clara near Almaden; owner, C. H. Kamm, San Luis Obispo; architect, W. H. Weeks, Bank of Italy Bldg., San Jose; contractor, C. N. Swensen, 355 Stockton Ave., San Jose.

BUILDING PERMITS

(San Anselmo, Marin County)

Following building permits were granted during the month of October by Chas. H. Cartwright, building inspector of San Anselmo, the improvements involving an expenditure of \$30,375:

W. Kepple, lot 2, blk 6, Morningside Court. Dwelling. Est. cost \$3500.
 Tarrarin Golf Court. Erect fence. Portions lots 1, 2, 3, and 4 Ross Valley Park Tract. Est. cost \$100.
 F. Farnkoph, Alterations, Carrigan Tract, Block C. Est. cost \$2500.
 P. F. Hines. Dwelling. Yolanda Court. Est. cost, \$7000.
 M. Noon. Alterations and repairs. Lots 64 and 65 Ros Valley Park, San Rafael Ave. Est. cost \$600.
 Catherine Traub. Dwelling. Tamal Park. Est. cost \$3000.
 E. Lakeman. Dwelling. Lot 11, Blk 4, Hawthorne Hills. Est. cost \$3300.
 Mrs. W. S. Evans. Alterations and repairs. Lot 25, block 4, Sunnyside Tract. Belle Ave. Est. cost, \$360.
 W. S. Kepple. Addition. Ptn lot B Ancha Vista Tract, Essex St. Est. cost \$100.
 G. Parachini. Repairs. Lot 148 Ross Valley Park Tract, Sycamore Avenue. Est. cost \$200.
 E. Scherding. Alter and repair. Lot 17 Osgood Tract, Main St. Est. cost \$300.

Northern California Baptist Convention Church, Corn Sals and Red Hill Ave. Est. cost \$2500.
 W. F. Krelle. Garage. Lot 1, block 5, Sequoia Park Section No. 1. Sequoia Drive. Est. cost \$75.
 I. Lancel. Addition. Lot 179 Bush Tract. Humboldt Ave. Est. cost \$900.
 H. Squires. Dwelling. Lot 2, block 3, Sub 1 Hawthorne Hills, Red Hill Ave. Est. cost \$3000.
 H. E. Squires. Dwelling East half lot 3 block 6 Sub 1 Hawthorne Hills, Hawthorne Ave. Est. cost \$3000.

BUILDING CONTRACTS

MONTEREY COUNTY

SCHOOL

MOSS LANDING SCHOOL SITE, Moss Landing. All work for school.

Owner—Moss Landing School District Architect—W. H. Weeks, 111 Sutter St., San Francisco; 1736 Franklin St., Oakland, and Bank of Italy Bldg., San Jose.

Contractor—The Minton Co., Mt. View Filed Nov. 12, '30. Dated Oct. 7, '30.
 As work progresses.....75%
 Usual 35 days.....25%

TOTAL COST, \$8494
 Bond, none. Limit, 75 working Days. Forfeit, none. Plans and specifications filed.

WAREHOUSE

KING CITY. All work for warehouse. Owner—Pacific Gas & Electric Co., Salinas

Architect—None.
 Contractor—Hugh S. Thompson. Filed Nov. 13, '30. Dated Nov. 6, '30.
 Completion on work.....75%
 Usual 35 days.....25%

TOTAL COST, \$2315.12
 Bond, none. Limit, 45 days. Forfeit, none. Plans and specifications filed.

RESIDENCE

LOTS 6 AND 7 BLK 5, Lakeside Tct., Monterey. All work for five-room frame and plastered residence. Owner—William and Anna Buick, Monterey.

Architect—None.
 Contractor—E. H. Sundberg, 113 8th St., Pacific Grove. Filed Nov. 12, '30. Dated Nov. 10, '30.
 Foundation completed.....\$1125
 Frame erected.....1125
 House completed.....1125
 Usual 35 days.....1125
 TOTAL COST, \$4500
 Bond, limit, forfeit, plans and specifications, none.

STORE

N W-GABILAN ST., bet. Main and Lincoln Sts., Salinas. All work for one-story reinforced concrete store building.

Owner—Serafino Pia, 112 Main St., Salinas.

Architect—W. E. Huson, Monterey. Contractor—H. D. Coon, Dolores and Alta Sts., Carmel. Filed Nov. 12, '30. Dated Oct. 22, '30.
 As work progresses.....75%
 Usual 35 days.....25%

TOTAL COST, \$10,600
 Bond, \$10,600. Surety, Indemnity Insurance Co. of North America. Limit, forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

MONTEREY COUNTY

Recorded	Accepted
Nov. 12, 1930—BEING PART OF Rancho Canada de la Segunda, containing 3,532 acrs. Grace Deere Velle Metabolic Clinic to Meese & Briggs.....Sept. 15, 1930	
Nov. 12, 1930—E 90 FT. LOT 16 BLK 10 Homestead Addition to Salinas City. Marie Lillian to Theodore Lillian.....Nov. 7, 1930	
Nov. 13, 1930—S KATHERINE ST. facing Pajaro St., Monterey. Mrs. J H Graham and husband to whom it may concern.....Nov. 12, 1930	
Nov. 13, 1930—LOT 19 Maple Park Addition No. 1, Monterey. Harry E Carter to J Frank Loughton.....Nov. 10, 1930	
Nov. 13, 1930—CORNER WATSONVILLE-Monterey Highway to Old Pajaro known as Railroad Ave., Watsonville Junction. Espindolas Inc. to whom it may concern.....November 10, 1930	
Nov. 13, 1930—LOTS 30 AND 32 BLK 7 Del Monte Grove. George W Smith to whom it may concern.....November 12, 1930	

Nov. 15, 1930—W PAJARO ST. with N line of Romie Lane, J. F. Kraus Subdivision. Adella P. Porter to J F Kraus Nov. 14, 1930

LIENS FILED

MONTEREY COUNTY

Recorded	Amount
Nov. 10, 1930—LOT 15 BLK 201, Monterey Peninsula Country Club Subdivision No. 2. Ernest W Urch \$4110.52; Robert Mfg Co, \$50 vs Alfred and Sophia M Price.....	

RELEASE OF LIENS

MONTEREY COUNTY

Recorded	Amount
Nov. 14, 1930—LOT 12 BLK 14, Homestead Addition to City of Salinas. Salinas Planing Mill to Ralph Algers.....	\$12.06
Nov. 14, 1930—LOTS 5 AND 10 BLK 5, Monterey Heights. Roy M Wright, \$109.15; Ed Simpson, \$426.77; H C Steinmetz, \$59.25; C F Phillips, T Flint and J Flint (Phillips Heating & Plumbing Co), \$138; J W Shaney, \$117.44; A Marotta, \$150; W H McConnell, \$137.10; T A Work Jr and Stuart A Work, \$1667.85; S Ruthven, \$415.50 to T A Work Jr and John H Clark	
Nov. 14, 1930—LOT 10 W 5 ft. Lot 8 Blk 5, Monterey Heights. Charles L Frost, to John H Clark	\$267.50

BUILDING PERMITS

STOCKTON

RESIDENCE and garage, \$4500; 651 Bedford Road; owner, W. M. Peenstra, 2261 Kensington Way, Stockton.

MOVE and remodel building, \$2,000; 526 W Magnolia; owner, Dameron Hospital, premises; contractor, O. H. Chain, Bank of America Bldg., Stockton.

BUILDING PERMITS

MARTINEZ

FLATS, 2 and 3-room, frame and stucco, \$5500; Warren and Pine; owner, R. J. Hersey, Martinez; architect, L. Bidwell, 6206 Mo-nadnock, Martinez; contractor, V. Pease, Martinez.

BUILDING CONTRACTS

SONOMA COUNTY

ALTERATIONS

OCCIDENTAL HOTEL, Santa Rosa. All work for alterations, etc. to 1st floor and part of 2nd floor.

Owner—Estate of Leonard Howarth, Santa Rosa.

Architect—Arthur S. Bugbee, 1462 Lombard St., San Francisco.

Contractor—Walter L. Proctor, 12 W. Tenth St., Santa Rosa.

Filed Nov. 12, '30. Dated Oct. 31, '30. On 1st and 15th of each month.

TOTAL COST not to exceed \$16,783 including fees.

Bond, limit, forfeit, none. Plans and specifications, filed.

COMPLETION NOTICES

SONOMA COUNTY

Recorded	Accepted
Nov. 10, 1930—LOT 13 BLK 2, Riverside Terrace No. 1. Silvio and Theda Ferrando to Selves.....	
October 30, 1930	

LIENS FILED

SONOMA COUNTY

Recorded	Amount
Nov. 14, 1930—LOT 10 Vacation Beach, Subdiv 2, Gonnelly Tract. Henry Hess Co vs Ed La Bot	\$180.58
Nov. 14, 1930—LOTS 3 and 4 Subdiv 2 Breens Addn to Monte Rio. Welch Bros vs Alfred Carlson and Charles J Tiglie	\$427

COMPLETION NOTICES

MARIN COUNTY

Recorded	Accepted
Nov. 14, 1930—SAN ANSELMO. Helen F Jamieson to whom it may concern	Nov. 13, 1930

LIENS FILED

MARIN COUNTY

Recorded	Amount
Nov. 10, 1930—LOT 28, San Anselmo. Joseph Thier vs Hillis J Kemp. \$20	
Nov. 10, 1930—LOT 27, San Anselmo. Joseph Thier vs Hillis J Kemp. \$20	
Nov. 14, 1930—SAN ANSELMO. Marin Tile Co vs H J Kemp and wife	\$45

BUILDING CONTRACTS

CONTRA COSTA COUNTY

BUILDING

LOT 7 BLK 2, Crockett Heights. All work for one-story building.

Owner—Nicholas J. Jacobs, Crockett.

Architect—None.

Owner—Peter H. & Fred S. Wind, Crockett.

Filed Nov. 14, '30. Dated Nov. 3, '30.

Floor laid \$1223.50

Plastering completed 1223.50

Completed and accepted 1223.50

Usual 35 days..... 1223.50

TOTAL COST, \$4894.00

Bond, 50% of contract price. Surety, American Surety Co. of New York. Limit, forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

SAN JOAQUIN COUNTY

Recorded	Accepted
Nov. 13, 1930—216 W ELM ST, being W 50 ft of E 50 ft lot 2, blk 3, Lodi. A R Putnam to J Henry Hellman.....	November 10, 1930
Nov. 12, 1930—SW COR LINCOLN and Magnolia. Dameron Hospital to O H Chain	November 4, 1930
Nov. 12, 1930—SW COR LINCOLN and Magnolia Sts. Dameron Hospital to Owen H Miller, known as Miller-Hays Co, and Con J Franke as Franke Electric Co.	Nov. 4, 1930
Nov. 17, 1930—HIGHWAY BET. Lodi and 1/4 mile N Mkelumne River. Dept. of Public Works. State of California to D McDonald	Nov. 8, 1930

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded	Accepted
Nov. 15, 1930—LOT 19 and N 5 ft Lot 20 Blk 10, Cerrito Park. Chas F McGreer to C E Eakln. Nov 12, '30	
Nov. 15, 1930—ALHAMBRA UNION High School Bldg. Alhambra Union High School District to Thomas J Kennedy (heating system to be installed in music room addition)	Nov. 10, 1930

Nov. 15, 1930—LOT 10 BLK 5, Greene Sub. of Pin of Wilks Addition to Town of Antioch. August Erickson to whom it may concern.....	Nov. 10, 1930
Nov. 15, 1930—LOT 6 BLK 226, Central Addition to Pittsburg. Ben W Roth to Horace J Silno & Bros	Nov. 10, 1930
Nov. 10, 1930—LOT 6 BLK 2, Crockett Heights. Albert Seyfried to Karl Koller	November 5, 1930
Nov. 14, 1930—1TN LOT 25, Resubdivision of Arlington Acres. Virginia E Mahl to Irwin H Reimers.....	Nov. 10, 1930
Nov. 14, 1930—LOT 4 BLK E, Berkeley Park. Edwin W Foster to whom it may concern.....	Nov. 12, 1930

LIENS FILED

SAN JOAQUIN COUNTY

Recorded	Amount
Nov. 18, 1930—N 80 FT. S 120 FT. of each Lots 3 and 4 Blk 18, Town of Mokelumne, now City of Lodi. East Bay Glass Co vs Claude R Leech and wife and Murphy & Taylor	\$203.68

BUILDING PERMITS

SACRAMENTO

RESIDENCE, 10-room, \$7650; No. 1100 Marian Way, Sacramento; owner Land Drive Terrace Corp., 819 J St. Sacramento.

GENERAL repairs, \$1900; No. 3210 San Jose Way, Sacramento; owner, G. Navarro, 1906 5th St. Sacramento.

RESIDENCE, 5-room, \$2200; No. 3541 36th St. Sacramento; owner, Earl Long, 451 34th St. Sacramento.

RESIDENCE, 6-room, \$4500; 375 34th St.; owner, A. R. Greeman, 4041 11th Ave., Sacramento.

ADDITION, brick, \$1000; 2516 J St.; owner, R. H. Smith, premises.

RESIDENCE, 4-room, \$2900; 2040 Val-lejo; owner, Wm. Green, 2017 26th St., Sacramento.

PORCH, sleeping, \$1,770; 2750 12th Ave.; owner, Sacramento Orphan-age, premises; contractor, Azave-do & Sarmiento, Sacramento.

COMPLETION NOTICES

SACRAMENTO COUNTY

Recorded	Accepted
Nov. 15, 1930—LOT 6, College Tract Sacramento. George E Hooper to whom it may concern. Nov. 14, 1930	
Nov. 13, 1930—BET TWIN CITIES School and one half mile NE Her-ald. Dept of Public Works, State of California to whom it may concern	November 6, 1930

BUILDING PERMITS

FRESNO

DWELLING, \$3500; No. 2602 Grant Ave., Fresno; owner, W. A. Bohlen, 2529 Grant Ave., Fresno; contractor, Chas. McKnight & Son, 736 Terrace St., Fresno.

DWELLING, \$2000; No. 2225 Holly St., Fresno; owner and contractor, P. Geringer.

COMPLETION NOTICES

FRESNO COUNTY

Recorded	Accepted
Nov. 15, 1930—TRANQUILITY Union High School. Tranquility Union High School District to Roy Martin	Nov. 10, 1930

Nov. 17, 1930—LOTS 23 AND 24 BLK 3, Pinkham Tract, Fresno. Thos W Grifflith to whom it may concern
Nov. 17, 1930
Nov 13, 1930—LOT 46 F & G Sub No 1. Henry F Bishop to whom it may concern. Nov. 12, 1930

LIENS FILED

FRESNO COUNTY

Recorded	Amount
Nov 13, 1930—LOT 15 Peck Col. American Steel Co vs Carl Mauser et al	\$103

OFFICIAL PROPOSALS

NOTICE TO CONTRACTORS

General Work

SEALED BIDS will be received by Geo. B. McDougall, State Architect, Public Works Building, 11th and P Streets, Sacramento, California, up to 2 o'clock P. M., Tuesday, December 16, 1930, thereafter on said day to be publicly opened and read for the erection and completion of the **General Work for the Hospital Building and Industrial Building, Stockton State Hospital, Stockton, California**, in accordance with plans and specifications therefor.

The Hospital Building is two stories with partial basement, reinforced concrete with tile and solid plaster partitions, wood roof construction and the roof and a total floor area approximating 14,500 square feet.

The Industrial Building is two stories, reinforced concrete, wood and concrete second floor construction, steel roof construction and a total floor area approximating 6,150 sq. ft.

Plans and specifications are on file for examination in the office of the Division of Architecture, Public Wks Building, Sacramento, and also at Room 1025 Associated Realty Building, Los Angeles, and at the principal California Cities Builders' Exchange Offices.

Plans, specifications & proposal forms may be secured by licensed General Contractors who have qualified or who will qualify by furnishing a verified statement of experience and financial condition as required by the provisions of Chapter 644, Statutes 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Questionnaire forms may be secured from the Division of Architecture.

Bids will not be accepted from a contractor to whom a proposal form has not been issued and all bids must be on proposal forms supplied by the State.

Requests for plans shall be accompanied by a deposit of twenty-five (\$25.00) dollars. Check shall be made payable to the Department of Public Works, Division of Architecture. Deposit will be returned upon receipt of the set in good condition, at Sacramento Office of the Division within 30 days after opening bids, otherwise it will be forfeited to the State.

All bids must be filed at the office of the State Architect on or before the time heretofore stated and in accordance with the "Rules for Bidding" accompanying the proposal form.

No bid will be considered unless cash, a bidder's bond made payable to the State of California, or a certified check made payable to the "State Engineer, Department of Public Works," in the sum of at least ten per centum (10%) of the amount of the bid is enclosed with the bid.

The Division of Architecture, State Department of Public Works reserves the right to reject any or all bids and to waive any informality in any bid received.

DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE
GEO. B. McDOUGALL,
State Architect.
B. B. MEEK,
Director of Public Works.

NOTICE TO CONTRACTORS

Mechanical Work

SEALED BIDS will be received by Geo. B. McDougall, State Architect, Public Works Building, 11th and P Streets, Sacramento, California, up to 2 o'clock P. M., Tuesday, December 16, 1930, said bids thereafter on said day to be publicly opened and read for the installation and completion of the **Mechanical Work for the Hospital Building and Industrial Building, Stockton State Hospital, Stockton, California**, in accordance with plans and specifications therefor.

Mechanical Work includes Plumbing, Heating, and Electrical Work. Separate bids will be received for "Electrical Work" and for "Plumbing and Heating Work." Combined bids will also be received covering all three branches of the work.

Plans and specifications are on file for examination in the office of the Division of Architecture, Public Wks Building, Sacramento, and also at Room 1025 Associated Realty Building, Los Angeles, and at the principal California Cities Builders' Exchange Offices.

Plans, specifications, and proposal forms may be secured by licensed Contractors who have qualified or who will qualify by furnishing a verified statement of experience and financial condition as required by the provisions of Chapter 644, Statutes 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Questionnaire forms may be secured from the Division of Architecture.

Bids will not be accepted from a contractor to whom a proposal form has not been issued and all bids must

be on proposal forms supplied by the State

Requests for plans shall be accompanied by a deposit of twenty-five (\$25.00) dollars. Check shall be made payable to the Department of Public Works, Division of Architecture. Deposit will be returned upon receipt of the set in good condition, at Sacramento Office of the Division within 30 days after opening bids, otherwise it will be forfeited to the State.

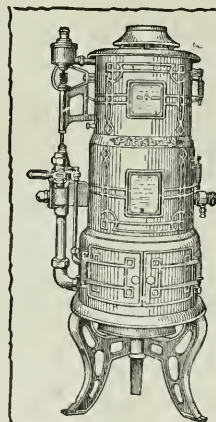
All bids must be filed at the office of the State Architect on or before the time heretofore stated and in accordance with the "Rules for Bidding" accompanying the proposal form.

No bid will be considered unless cash, a bidder's bond made payable to the State of California, or a certified check made payable to the "State Engineer, Department of Public Works," in the sum of at least ten per centum (10%) of the amount of the bid is enclosed with the bid.

The Division of Architecture, State Department of Public Works reserves the right to reject any or all bids and to waive any informality in any bid received.

DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE
GEO. B. McDOUGALL,
State Architect.
B. B. MEEK,
Director of Public Works.

H. A. Lake of Garden Grove, was re-elected president of the California Retail Lumbermen's Association at the annual convention of that body in Pasadena. Earl Johnson of Pasadena was elected vice-president, representing the Southern District and E. T. Robie of Auburn, vice-president representing the Northern District. Ross Blanchard of North Hollywood was elected treasurer. Directors elected are: F. Dean Prescott, Fresno; J. H. Shepherd, Sacramento; S. E. Dalton, Oakland; Ross Blanchard, North Hollywood; C. W. Finkerton, Whittier; Paul Hallingby, Los Angeles; O. W. Hamilton, San Diego; Francis Boyd, Santa Barbara; C. G. Bird, Stockton; M. A. Harris, San Francisco.



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UNION WAGES SHOW GAIN IN 1929 SURVEY

The long-time upward trend of union wage scales continued in 1929, and organized labor's demand for shorter hours was recognized in most of the contract renewals, according to a nation-wide survey of union rates published by the U. S. Department of Labor.

Three-quarters of a million workers, in eight crafts and 67 important industrial centers, were reached in the survey. In all, 75 trade and subdivisions were examined.

For 1929 the hourly wage rate for all these trades showed an increase of seven-tenths of a cent per hour as compared with 1928. The real return to the worker was increased somewhat above this figure by declining prices.

Some 20 building trade crafts showed an increase of 1.3 per cent. Bakers, laundry workers, and stone cutters affiliated with labor unions won wage increases of 2.5 per cent or better during the year.

While wages for the combined groups increased fractionally, the full-time hours per week decreased by one-tenth of an hour for the 786,000 union workers surveyed. The 44-hour week—five eight hour days and Saturday morning—is the union standard. The survey showed fewer than one-tenth of the organized workers toiling as many as 48 hours weekly.

The steady extension of the 5-day week is shown by the finding that slightly more than one-sixth of all union workers surveyed work 40 hours or less per week.

The average union wage rate at the middle of 1929 was \$1.20 per hour, or \$9.60 for an eight-hour day.

Against these advances by the union crafts, some of the larger non-union groups reported working hours and wages unchanged since 1926.

In the steel industry average weekly earnings for the 54-hour week increased from \$34.41 in 1926 to \$36.48 in 1929.

MUST PAY FOR WORK ON BUILDING THAT BURNED

If a building contract does not explain that a contractor shall receive payment for work performed on a building which is destroyed before its completion, the courts usually hold that the owner agreed to pay a reasonable amount to the contractor for the work performed, says The Constructor.

In Robb v. Parten, 226 N. W. 515, it was proved that a contractor agreed in writing to furnish and install all the material in a dwelling. Before completion of the work the building was destroyed by fire. The owner refused to pay the contractor for the work which he had performed, and the contractor filed suit.

The higher court promptly held the owner bound to pay for the work performed by the contractor before the building was destroyed by fire.

Cannot Recover Compensation and Damages, Court Rules

An injured employee who accepts compensation under the workmen's compensation laws is barred from suing and recovering damages under the common law, says The Constructor. An employee may sue for damages, if he believes he may recover a greater amount than is provided by the state compensation laws, but he cannot ordinarily recover both compensation and damages.

In Swartz v. Conradis, 148 AU. 529, it was shown that a general contractor was erecting a school building. He sublet the plastering contract to a sub-contractor. An employee working for the latter was severely injured, while engaged at his work, by the falling of a ceiling. He received compensation from the subcontractor and then sued the principal contractor for damages on the grounds that the latter failed to provide a safe place in which to work. He alleged that the general contractor negligently constructed the ceiling so that the injuries actually were caused by the general contractor's failure to provide a safe working place. Ordinarily, the general contractor would have been liable in damages, but since the employee had accepted compensation under the state compensation laws from subcontractor, the court held the principal contractor not liable, stating the following important law:

"When the relationship of contractor, subcontractor, and employee springs into existence, the compensation act takes hold; the common-law relation of the parties theretofore existing is changed into a statutory relation. Of course, the parties may disavow this relation and relapse into their former common-law status. . . . To maintain this common-law action, appellant (employee) must show some legal relation between him and defendant that has been injured under circumstances which sustain an action of trespass for the wrong. . . . The subcontractor carried compensation insurance and the plaintiff (employee) the compensation provided by the compensation act. . . . Where an employee seeks to recover from a contractor in a common-law action, he must show that the contractor has rejected the provisions of the workmen's compensation act in the manner there provided, otherwise he will be relegated to the compensation act for redress."

The U. S. Department of Labor will soon establish an employment bureau at Las Vegas, Nevada, to handle the employment situation in connection with the Hoover Dam project. The bureau will try to keep surplus workers away by the spreading of information regarding the progress of development and number of men needed. The Reclamation Bureau of the Department of the Interior will co-operate in this work.

\$45,000,000 WATER PROGRAM PROPOSED

A \$45,000,000 water development on the American River, involving the construction of three major dams, to provide free water for the Delta of the Sacramento and San Joaquin Rivers flood control, irrigation and electric power, is proposed in a report prepared by State Engineer Edward Hyatt, Jr.

The report was prepared by A. H. Edmonston, deputy State engineer, for the Joint Legislative Committee on Water Resources, and deals with a specific project proposed by the American River Hydroelectric Company, which would fit into the proposed coordinated plan for developing California water resources.

The study sets forth the service obtainable under flood control, salinity control, irrigation and power from three major reservoirs, at Folsom, Auburn and Colma, and two minor projects at Pilot Creek and Webber Creek with an aggregate storage capacity of 1,750,000-acre feet and power installation of 200,000 horsepower.

"The reservoirs could be operated to control floods on the American River to 100,000 second feet maximum flow at Fair Oaks," the statement said. "They would maintain an inflow into the Delta of Sacramento and San Joaquin Rivers at 5000 second feet for salt water control, and to meet the irrigation demands of the Delta Area; furnish an additional irrigation supply of 300,000-acre feet per season and produce incidentally 600,000 kilowatt hours of electrical energy annually."

BUILDING OFFICIALS SECURE NEW MEMBERS

Eight new members were added to the roster of the Pacific Coast Building Officials' Conference during the month of October; one active, five associate, and two active participating, as follows:

Active—E. E. Myers, building inspector, Oceanside, Calif.

Professional—P. F. Meade, district manager, Portland Cement Association, Denver, Colo.

Associate—Associated Brick Manufacturers of the Inter-Mountain Territory, Salt Lake City, Utah; Payne Furnace and Supply Co., Beverly Hills; Simons Brick Co., Los Angeles; and Smith-Emery Co., Los Angeles.

Active Participating—City of Pomona, Calif. (C. C. Caves, mayor), City of Orange (D. H. Dale, building inspector); and Beverly Hills.

Pacific Coast Building Officials' Conference has received a letter from the "old country"—Edward Wood & Company, Ltd., of Manchester, England, requesting a copy of the Uniform Building Code, expressing particular interest in welding provisions. A copy also requested by the Fraser, Brack & Engineering Company, Ltd., contracting engineers of Montreal, Canada.

A. I. A. PLANS NATION-WIDE STUDY OF UGLY COMMUNITIES

A nation-wide study to promote "better planning of all communities for permanent human use as essential to modern civilization" has been started by the Committee on City and Regional Planning of the American Institute of Architects.

Finding that millions are wasted annually on ugly buildings, and that bad environment blights behavior, health and enjoyment of life, the Committee, as its initial task, is seeking an answer to the question: "Can character and individuality of cities and regions be consciously attained?"

Replies thus far received indicate a conflict of opinion, according to Chas. H. Cheney of Los Angeles, chairman of the committee. Farsighted, intelligent planning and careful building up of the morale of the district is cited as the best method by J. C. Nichols, Kansas City, Mo., member of the National Capital Park and Planning Commission.

Herbert U. Nelson of Chicago, executive secretary of the National Association of Real Estate Boards, questions the value of conscious striving for municipal beauty. Cities are composed of men and women working for better standards of living, and will continue to improve the quality of their development, Gardner S. Rogers of the Civic Development Department of the United States chamber of Commerce declares. Others doubt whether American cities can have any well defined character.

"The original 'city beautiful' movement failed, or at least did not succeed largely because it was concerned with surface good looks," says Mr. Nichols, developer of the Country Club District of Kansas City, characterized by Mr. Cheney as one of the three or four outstanding residential communities of the country.

"To assume decoration would give charm and character to a city that was structurally bad was as illogical as to assume a finely tailored suit would transfigure an unfortunate man, afflicted with a physical deformity.

"Slowly, painfully America learned the lesson that there are great fundamental considerations in city building. When the first city planner came among us to declare that his art simply consisted in exercising 'such foresight as would promote the orderly and slightly development of a city, with due regard for health, amenity and convenience and for its commercial and industrial advancement,' a revolution in our thought had occurred. And when the town planner looked beyond the corporate limits and included the city's environs, another advance took place.

"Of course, mere cleanliness enhances the charm of an urban community. Orderliness goes much further. Nature furnished all the precedents for man in handling the landscape, whether in designing the street network or grouping buildings in pleasant relationships.

"Parks, not only great open areas but small ones as well, are inspiring; playgrounds, a human necessity; segregated commercial, industrial and residential areas, essential for the sake of efficiency as well as congenial living; well designed commercial and domestic buildings, worth while; imposing public structures properly related, a worthy expression of the ideals and achievements of a free people. Control of the use of property for the good of the great majority is necessary as protection against the

few who put self-interest above the general welfare.

"But, speaking from nearly a quarter-century of experience in striving to apply the principles of the city planner to the practical demands of modern city living, especially as applied through the protection of home life through the perpetuation of fine influences not difficult to set up, the greatest thing to be desired is intangible.

"I refer to morale. Unless there is developed among the people a deep-seated loyalty to these things, no city is truly great. It isn't so much that the Country Club district, or any other home section, is lovely and wholesome today that matters. What is needed most is an alert and determined interest in checking the smallest violation of the rules laid down in the restrictions or the ordinances or statutes. The greatest asset a city or a neighborhood may claim is loyalty that is intelligent and unwavering.

"Fortunately, the planned city becomes the city intelligent, the city loyal. Morale grows out of something for which people may be proud. If city planning did nothing more than inspire a finer type of citizenship, it would have justified itself. Since it is the great stabilizer of property values and the protector of wealth, it is one of the most practical things man ever has devised."

Practically all cities are alike in their mechanical equipment, Mr. Rogers points out, adding: "All have the telegraph and the telephone; light, power and heat; good roads and amusements, but there is a wide divergence among cities in those elements which make living more worthwhile and more profitable.

"The improvement of quality assists in the establishment of character, and character is the best of advertising media. We are attracted to people, not because they have accumulated quantities of worldly goods, not because they are large nor because they can talk longer or faster than others, but because of their character. Character in a city as in man is the expression of its ideals and aspirations. It is personal and local.

"A city therefore should develop in accordance with local conditions and local or sectional traditions. The elm, a beautiful and characteristic tree of New England cities, would be inappropriate in any of the Gulf coast cities, and the palm-lined avenues of Los Angeles would appear ridiculous if developed in Chicago.

"A New York skyscraper does not make a city of fifteen thousand population a metropolis, and the building of a Philadelphia tenement house in a small town injures rather than improves the housing situation. The folk lore, sentiment and character of any section of the country is built around local conditions and local attributes, and it is these which should be utilized, refined and perfected in the building of a city. I therefore commend for your consideration the business has so successfully employed, namely, to improve the character of the municipal product as the best means of increasing the production, the enhancement of property values, and the realization of a more successful life."

Mr. Nelson expresses the opinion of some of the realtors, according to Chairman Cheney's statement, in holding that beauty is a by-product of

good order, utility and economy of design. "I think," Mr. Nelson continues, "that the airplanes of today are more pleasing than those of ten years ago and that this quality derives from improvement in these factors.

"I am inclined to doubt, therefore, that conscious striving for beauty in our cities will give us the results we want and that you have in mind. I believe that if we plan our cities so as to utilize the ground most efficiently for structures and for traffic, so as to give to our citizens healthful conditions and convenient opportunities for recreation, the net result will be beautiful cities.

"European concepts of civic centers, boulevards and plazas are not adapted to American habits of living. Although they dominated the National City Planning Conference fifteen years ago. The universal use of automobile transportation in this country makes possible cities of much greater area in proportion to population than the older type of cities. The conception on which Chicago is working strikes me as being sound, namely, to have great concentric circles of playground and forest reserve surrounding the city, giving easy access to all to real outdoor life.

"I believe the point where architects and city planners should start their work today is with the family residential unit. I believe this unit to be inefficient and costly with relation to the needs it serves and in comparison with what could be developed with the scientific and technical knowledge we already have.

"When this problem is adequately solved, the rebuilding of American cities and communities can proceed with relation to the new solution. I often regret that architects do not give more time and thought to this matter. Most of those I meet are thinking in terms of exterior and conscious aesthetic effects based on tradition or habit."

One prominent citizen of Washington, D. C., informs the committee that there is "some slight evidence of originality" in American cities. "One town," he observes, "will have ten more oil signs on the right hand side of the main approach to the city than the next town. The next town has eighteen more chicken dinner signs than the town before.

"The town after that has its slums on the south side of the railroad tracks and the town after that has them on the north side. Each town has the most wonderful Chamber of Commerce that was ever organized, and a lot of other allied, uplift outfits who are long on conversation and extremely short on action."

REAL ESTATE ACTIVITY

An increase of 7.2 in the index figure representing real estate activity for October over the figure representing September activity is reported by the National Association of Real Estate Boards, following its monthly computation of statistics on real estate market activity. The figure representing real estate market activity for October is 74.

The index figure is based upon official reports of the total number of deeds recorded in 64 typical cities throughout the country. Real estate activity for 1926 is taken as the base in computing the monthly figure.

METROPOLITAN WATER PROJECT COST IS TWO HUNDRED MILLIONS

Capable of serving 7,500,000 people and estimated to cost \$200,000,000, plans for the Colorado river aqueduct, the greatest ever projected for a domestic water supply, were outlined at Los Angeles last week by Frank E. Weymouth, chief engineer of the Metropolitan Water District.

Combined with the resources of the Los Angeles - Owens river aqueduct, the gigantic water system will provide for a Southern California population of 10,000,000.

While no definite plans have been made for financing the project it is thought that steps may be taken to call a special election within the 13 cities comprising the Metropolitan district. The probable date of the election would correspond either to the municipal primary or the Los Angeles city election next year.

The aqueduct would have its intake near the town of Parker, Ariz., 150 miles south of the Boulder dam site. From that point water for the project would be pumped through huge pipe lines by electrical power for a distance of 90 miles to the summit of Shaver pass and thence flow by gravity and tunnels under the San Geronio pass along the base of the San Bernardino mountains, and ultimately find its way to a series of huge reservoirs.

From these reservoirs the Southern California communities and cities that are members of the Metropolitan Water District would obtain their new augmented water supply.

The Weymouth plan proposes construction of a dam near Parker to divert the water supply needed for Upper Parker route and was one of

The Bridge canyon route, a proposed gravity flow aqueduct, was considered too costly to undertake, Weymouth said. The route now proposed passes through the safest possible geological formations, and will be lowest in unit cost of any of the routes studied, all elements of construction and operation considered.

The aqueduct would be 265 miles in length and would have a capacity of 1500 cubic feet per second. It would have nearly four times the capacity of the Owens river aqueduct, and in full operation would require 200,000 horsepower of electrical energy to pump the water from the stream level at Parker to the summit of Shaver pass, 90 miles away.

The lift to the summit of the pass, about 1500 feet, would be accomplished by a series of electrical pumps.

The Metropolitan Water District, comprised of 15 Southern California municipalities, now has a contract with the United States government, under which it will receive an allocation of 35 per cent of the electrical power to be developed from Boulder dam, for the purpose of pumping the water up the grade to Shaver summit. It has been estimated that approximately 600,000 horsepower will be generated from the government power plant at Boulder dam and the district's allocation from this power therefore would be approximately 216,000 horsepower.

Recommendations for the aqueduct route were drawn by Mr. Weymouth after consultations held with his corps of experts both on the ground of the aqueduct route and from engineering studies and surveys.

5. The relation existing between the owner and the employer of the lien claimant.

6. Knowledge by the owner of the performance of the work.

7. Facts showing a performance or other facts necessary to complete a cause of action.

8. Implication made by law such as the reasonable value of the services rendered or materials furnished and on implied promises to pay.

The information concerning the completion of the building or work, of the co-partnership, the relation between the owner and the claimant, knowledge on the part of the owner, a reasonable value of services rendered, or materials furnished and promise to pay are purely questions of fact and need not be stated in the claim of lien. The fact that the lien has not been filed within the statutory time is a defense against the enforcement of the lien and has nothing to do with the right to file the claim of lien and the right to have the lien enforced. The court determines whether the lien is valid, that is whether it was filed in time and whether the work and labor performed or the materials furnished can be charged against the building or work.

It is necessary only for the claimant to conform substantially with the statute in stating those things required to be stated in the claim of lien. It is not necessary that the precise words of the statute be used, although substantial compliance with the statute is required. The statute will not be given such a narrow or technical construction, so as to fritter away, impede, and destroy the right of the claimant. The persons for whose benefit the lien law was enacted are not presumed to be versed in accuracy of expression and the claims made by them are to be construed more to substance rather than to form in view of the purpose of the record and statement, namely to inform the owner.

The purpose of the lien is to give information to the interested parties, of whom the lien claimant is, the kind of labor and/or materials for which the lien is claim, and other information required so that the owner of the property or other interested parties may have such information in order that such parties may investigate and determine whether or not the lien claimant has a valid cause of action. If the lien is filed in the county recorder's office, all parties have constructive notice of the contents of the lien and all information contained therein. Consequently it is necessary and essential that the information required to be given by the statute be contained in all liens filed.

Statement That Sum Is Full Payment Legal

Usually, if an account is disputed by an owner the contractor cannot collect the full amount if he accepts a check having thereon a notification that the check is in full payment on the account, says The Constructor. This law is effective if the notification written on the check, or enclosed in a letter accompanying the check, indicates that the debtor intended for the check to be final payment. So held the higher court in *Alcorn v. Arthur W. S. W.* (24) 276.

In this case it was proved that an owner refused to pay the contractor. Later he mailed his check for a small part of the amount he owned and wrote on the check a statement that the amount was "full payment." The contractor accepted and cashed the check and later contended that he did not see the written statement on the check. The higher court held the contractor not entitled to receive payment of the balance due.

MECHANICS LIEN LAW— WHO FILES LIEN AND HOW TO FILE TOLD BY ATTORNEY

The following article prepared by Harry C. Westover, attorney-at-law of Santa Ana, appeared in the November issue of the West Coast Builder and is reprinted by request.

One who furnishes labor or materials upon any building work or structure may file a lien for the value of the materials furnished or the work and labor performed. Section 1187 of the Civil Code of Procedure provides that every person claiming the benefit of the lien law may file for record with the county recorder of the county in which the property or some part thereof is situated, a claim of lien.

The mere furnishing of labor and materials does not create a lien. In order to create a lien the claim of lien must be filed with the county recorder, and until the claim of lien is perfected by filing it with the county recorder the lien is a mere inchoate right which the mechanic or materialman may perfect or not at his pleasure and which until perfected has no existence.

Mechanics' liens are entirely of statutory creation, and the statute must be looked to, both for the right to the lien and the mode by which it can be enforced. The right to a mechanics' lien depends upon compliance with the statute, and in order that a valid lien may arise and be enforced the claimant must strictly or at least substantially observe compliances with the provisions of the statute. It is not necessary to take any step other than those required in the statute. A party desiring to hold and enforce a lien upon the property of one who

did not employ him must bring the case clearly within the terms of the statute.

There is no definite form provided for mechanics' liens. It is necessary only that the following things be stated, and they may be stated in any order that the claimant so desires:

1. There must be a demand for the amount due the claimant after deducting all charges, credits, or offsets.
2. The name of the owner or reputed owner must be given, if known.
3. A general statement of the kind of work done or the materials furnished must be made by the claimant.

4. The claimant must state the name of the person by whom he was employed or to whom he furnished materials.

5. A description must be given of the property sought to be charged, sufficient for identification.

6. The claim must be signed by the claimant and verified by the claimant or some other person.

Anyone desiring to file a valid mechanics' lien must give the information as set forth above and the claim of lien must be signed and verified. It is necessary that the claim of lien state or show any of the following:

1. The completion of the building.
2. The date of completion.
3. The filing of the claim within 30, 60, or 90 days after the completion of the building.
4. The names of the members of the firm where the claim is made by a partnership.

THE OBSERVER

What He Hears and Sees on His Rounds

The Valley Lumber Co. of Fresno, which recently purchased the business of the Fresno Lumber Co. at Fresno, is selling the stock and will close the yard.

Public work in San Bernardino County will be done by day labor. It is announced by C. E. Grier, chairman of the board of supervisors. This policy has been adopted, he asserts, to "insure that employment is given to citizens of Sann Bernardino county." He claims the board has on record a resolution requesting contractors on public work to employ only citizens residing in the county but says it has been disregarded.

In order to discourage "two hit" contractors from invading Santa Maria, erecting small buildings, and leaving a wake of unpaid bills and employes, Santa Maria contractors are urging the adoption of an ordinance which will require a \$10,000 bond from every contractor doing business in that community. A petition containing the signatures of Santa Maria builders was represented in the city council. In the discussion which followed, it was revealed that a \$500 bond is required of plumbers and \$2500 bond of electricians.

Request that the city of Fresno restrict employment on municipal projects to Fresno County citizens will be made to the city council by Clarence Dowd, secretary of the Fresno Labor Council. It is Dowd's contention that all workmen employed by either local or out-of-town contractors on municipal projects should be citizens of this county and he will request that an ordinance to that effect be passed by the city commission. Commissioner of Public Works C. C. Van Valkenburgh Jr., submitted such an ordinance for discussion last week but withdrew it when opposition was voiced by other commissioners.

Contractors who take advantage of the jobless by cutting wages, then underbid others on construction jobs, will be blacklisted from bidding on municipal jobs for the next two years, according to George Avery, chairman of the Seattle Board of Public Works. Avery's decision was the result of a police court hearing in which L. Coluccio was charged with underpaying workmen engaged in building a bridge. Coluccio's defense was based on the statement that during "hard times" workmen should be glad to get work at any wages.

The board insisted that charter provisions specifying a minimum wage and providing a penalty for its violation, be upheld, and that contractors who do not observe the regulations be excluded from bidding.

More than \$200,000 in veterans funds will be available for construction of homes before January 1, George M. Stout, secretary of the veterans' welfare board, announces. Later the \$20,000,000 bond issue voted on by the people in November will be released. The \$200,000 represents income of the board from payments of veterans who already have their homes.

Action to clarify in the public mind the elements which the home buyer should find in a good unimproved subdivision and the elements which he should find in a good fully improved subdivisional development, is under way through the Home Builders and Subdividers Division of the National Association of Real Estate Boards.

The executive committee of the Division at a recent meeting at national headquarters, Chicago, took these steps toward the establishment of a better understanding of what constitutes sound subdivision development:

1. Adopted detailed standards of practice both for the subdivision in which consists still of unimproved lots and for the subdivisional development, in which has been provided all the facilities which make lots ready for use as home sites. The standards of practice include definitions of terms, and state clearly the proper functions and policies of a subdivider and subdivisional developer.
2. Appointed a committee to draft a proposed model statute which would provide for the classification of vacant real estate under the securities commissions of the various states.

In drafting the proposed legislation the committee will work with Nathan William MacChesney, general counsel for the National Association of Real Estate Boards, who drafted the "MacChesney License Law," a model law, providing state license for real estate brokers and salesmen which is substantially the basis of real estate license legislation now in effect in 26 states. The committee will report the tentative draft of the proposed model law to the executive committee of the Division at the annual business meeting of the Association, to be held in St. Petersburg, Florida, January 15, 16 and 17. The standards of practice will likewise be brought before the board of directors of the National Association at the St. Petersburg meeting.

J. W. Wheeler, of Seattle, Washington, is chairman of the committee which will draft the model statute. Other members of this committee are Axel Lonnquist, Chicago, and Charles C. Malley, New York and Westchester County, New York.

City officials in charge of the inspection of buildings, including superintendents of buildings, building inspectors and fire chiefs, will attend a training school in Syracuse, N. Y., December 2 and 3 under the direction of the New York State Conference of Mayors, the state department of labor and the state board of housing. This school is a part of the program to provide training facilities in New York State for all groups of municipal officials. There will be five sessions of the school, and the curriculum will include studies of the labor law, model housing code, minimum standards for building codes, administration of building codes, checking structural designs, building construction, elevator installation, hoistway construction and structural weaknesses or defects.

Herbert Fleishhacker, San Francisco banker known for his optimism over the destiny of California in times economic, says he believes the downswing of business has scraped bottom.

He takes the attitude almost as a matter of course that business could get very little if any worse, and that improvement is a matter of time, the Pacific coast having an advantage for quick recovery on account of climate, aside from other considerations.

Resumption of "normal" operations by big concerns in various industries, ordinarily developing as winter weather disappears, should be evident along the coast as a comparatively early date compared with the East. On the West Coast we should escape much of the winter hardships which Eastern industrial cities may have to contend with, Fleishhacker

Representatives of organized labor in Sacramento have protested to State Treasurer Chas. G. Johnson, against the use of enlisted men in making repairs and alterations at Mather Field in Sacramento. Johnson was informed that many skilled workers are out of jobs in Sacramento, and under the circumstances the labor heads believe it is poor policy for the government to use enlisted men to put Mather Field in shape for the air corps. Located in Los Angeles by telephone, Senator Samuel Shortridge told Johnson he will protest to the war department in Washington. Johnson says he also will confer with Congressman-elect C. F. Curry, Jr., about having union men employed at the field.

Asserting the rental the government pays in twenty years for some of the post offices would pay for the construction of its own buildings, Representative Clyde Kelly, Republican, Pennsylvania, has informed President Hoover, he will ask Congress next month to appropriate \$10,000,000 as an initial fund in a gigantic Federal building program. His plan is to have the construction work cover a twenty year period, to be started early next year to work can be furnished the jobless. The Government, he said, pays \$17,500,000 yearly in rents for its minor post offices and substations.

Joseph T. Ryerson & Son, Inc., Chicago, Ill., arranging a series of meetings in the principal cities of the country at each of which G. Van Dyke, manager of the special steels department, will give a talk and demonstration on the subject of alloy steels, tool steels and stainless steels. The lectures, of a non-technical character, cover the better part of a day and are given in such a way as to be clearly understandable by superintendents, shop foremen, welders and others who may not have had technical training.

Pacific Coast Cement Co., Seattle, Wash., has announced that depletion of stocks and orders on hand make it possible to forego the usual mid-winter suspension of operations, both at the quarry in Alaska and at the plant in Seattle. Last year the Seattle plant suspended operations for 75 days during the winter season.

At the recent convention of the California Retail Lumbermen's Association held in Pasadena, proposed new law legislation was presented at an executive session by Attorney Glen Behrmer of Los Angeles, who cited the need for some measure to protect the building industry against reckless financing.

TRADE NOTES

Twelve California redwood mills reported a cut of 5,371,000 ft. for the week ended November 8, while shipments were 4,568,000 ft. and new business amounted to 4,510,000 ft.

John M. Fabbris, wholesale dealer in foreign and domestic marbles, has combined with the A. Carpenter & Empire Trading Co., Importers and Pacific Coast representatives of the Rising & Nelson and Chapman Slate Companies. The new company is known as the Fabbris-Carpenter Company Ltd. and will wholesale marble, stone, slate and tile with offices and show rooms at 275 Bush St., San Francisco, and at the Board of Trade Building, Los Angeles. The A. Carpenter & Empire Trading Co. are continuing in the importing business and have also moved their offices to 275 Bush St., San Francisco.

The Gypsum Association, recently organized in Chicago, with offices at 211 West Wacker Drive, announces the opening of a New York office at 11 West 42nd St., with Mr. J. Kent Smith as District Engineer. Mr. Smith is a graduate of the University of Pennsylvania in both Engineering and Law and has, for a number of years, been connected with the Eastern Underwriters' Association. He will co-operate with architects, engineers and building commissioners concerning the use of gypsum and gypsum building products.

Federal Cement Tile Co., Chicago, Ill., has acquired the American Cement Tile Mfg. Co. Executives and general offices will be at Chicago, with plants at Hammond, Ind., Lincoln, N. J., Wampum, Pa., and Birmingham, Ala. It is proposed to change the name of the company to Federal-American Cement Tile Co.

Paving Properties Co., Ltd. of Oakland, a real estate and development organization, capitalized at \$250,000, has filed articles of incorporation with Secretary of State Frank C. Jordan. Directors are Edwin T. Blake, Berkeley; H. D. O'Banion, San Leandro; W. P. Mulhern, Oakland; Herbert E. Hall, Piedmont; and J. A. Ellis, Alameda.

The Patents Holding Corporation, Frederick, Md., has granted a license to the Caterpillar Tractor Company to manufacture power propelled road graders and maintainers under Patents controlled by the Patents Holding Corporation.

Chain Belt Co. of Milwaukee announces the appointment of the Concrete Products Sales Co., Ltd., of Oakland, as a new distributor of its equipment.

Fort Pitt Bridge Works Co. has been formed by consolidation of the Fort Pitt Bridge Co., Pittsburgh, Pa., and the Massillon Bridge & Structural Co., Massillon, Ohio. The combined companies will have an annual capacity of 125,000 tons of structural bridge steel. Officers of the new company are: Theodore A. Straub, president; H. R. Bickle, vice-president; P. B. Straub, secretary-treasurer.

HERE—THERE
EVERYWHERE

Westinghouse Electric & Manufacturing Company has let contracts for a \$25,000 addition to the present plant in Emeryville.

The 1931 annual convention of the Western Association of State Engineers will be held at Sacramento, probably during the month of November.

Changes in ordinances to relieve furnace men from paying electrical license fees as well as their regular furnace fees are requested of the Oakland city council by the Furnace Dealers' Association of Northern California.

Sacramento Builders' Exchange will feature a golf tournament at the Del Paso Country Club on December 2nd. It is expected the tournament will close with a stag dinner at the club quarters.

City trustees of Carmel, Calif., have passed an ordinance regulating the installation of gas appliances, requiring licenses of persons who install, maintain or repair such appliances.

Architect C. M. Winslow has been appointed a member of the Los Angeles Municipal Art Commission to succeed Architect Donald B. Parkinson, resigned.

As a means of creating work for the unemployed of Greater Oakland and at the same time to bring about needed municipal improvements, Harry G. Williams, Oakland city auditor, declares himself in favor of a bond proposal of \$2,000,000.

The Canadian government has given approval to expenditures of more than \$27,000,000 for public works to relieve unemployment. Expenditure of approximately \$14,000,000 has been authorized by various provinces and municipalities, and many of these undertakings are already under way. The construction and improvement program for the Canadian National Railways calls for an outlay of \$11,139,650 and that of the Canadian Pacific will cost \$11,514,000. Relief work in Quebec and Alberta still to be considered will probably bring the total expenditure up to approximately \$50,000,000.

Inland Steel Co., Chicago, Ill., through its employees has developed a plan for the relief of workmen for whom no employment can be provided under present conditions. Those who are working have voluntarily pledged a portion of their earnings to a relief fund, to which the company will contribute an equal amount. Employees' contributions vary from 2 to 5 per cent, those earning less than \$125 per month not contributing when they have dependents. The money so collected will be distributed through trained social workers, acting as advisers to a central committee of employees. Expenses of distribution will be borne by executives of the company.

W. W. Wilkinson has been appointed Southern California representative of the Oregon-Washington Plywood Co., with headquarters in Los Angeles

ALONG THE LINE

C. W. Pinkerton, Whittier Lumber Company, Whittier, who attended the Lumber Association at Chicago, was re-elected director representing the California district for three years.

Col. B. C. Allin, director of the Port of Houston, Texas, has submitted his resignation to accept the position of port manager for the City of Stockton, Calif. His appointment will take effect January 1. His salary will be \$10,000 a year, which is an increase of \$1000 over what he receives at Houston.

Independent Pneumatic Tool Co., Chicago, Ill., announces the election of Charles W. Pendock to the board of directors. Mr. Pendock is president of the LeROI Co., Milwaukee, Wis. He succeeds the late William A. Libkoman.

Roy V. Wright of New York has been elected president of the American Society of Mechanical Engineers to serve for the year 1931, succeeding Charles Piez of Chicago.

A. W. Eager, 66, Los Angeles architect, died in that city November 18, after a protracted illness. Born in Hamilton, Ontario, Eager spent forty-three years in Southern California, during which time he designed the national soldiers' home at Sawtelle and several hotels. He was credited with introduction of the English type of architecture in the Southern California section.

William Ogden has been appointed manager of the manufacturers' division of the Affiliated Bureau, established in connection with the general offices of the Associated General Contractors of America in Washington, D. C.

Shipments of tile and clay products from Santa Catalina Island are materially increasing cargo receipts at Los Angeles harbor. The shipments average nearly 100,000 Mission roof tile and 45,000 hollow building tile each week. Most of the tile is being shipped to Phoenix, Arizona.

The American cement industry is determined to maintain the living standards of its workers. Frank H. Smith of New York, president of the Portland Cement Association told manufacturers in convention in Chicago, Nov. 18. The standards are being maintained despite the decrease in cement shipments, Smith declared. The industry, he said, is weathering the economic depression, adding that business in general "seems to be decidedly on the mend."

Plans for the development of the Berkeley waterfront, as proposed by R. L. Vaughan San Francisco engineer, will be considered by the Berkeley City Council on December 3. Vaughan seeks a 50-year lease on waterfront tidelands to be developed by San Francisco capitalists who propose to spend \$150,000 annually.

The town of Mill Valley contemplates adoption of a new building ordinance. Building Inspector Charles McCrum recommends adoption of the "California Building Code of 1930."

ENGINEERING SOCIETIES EMPLOYMENT SERVICE

Further information regarding positions listed in this column is obtainable from Newton D. Cook, Room 715, 57 Post Street, San Francisco. (Phone Sutter 1684).

K-327-W-1946-C-S CONSULTING CIVIL ENGINEER, to supervise structural design and construction of steel plant and advise on decision of all questions arising in design of buildings. Apply by letter. Location, United States. Headquarters, New York City.

R-3332-S SHIFT BOSSES, one for gold mine and one for cyanide mill. Must be single and have good record of practical experience. Salary \$200 month, less \$45 for board. Location, Orient.

R-3324-S DRAFTSMAN, 30-35 years old, technical graduate, with experience including executive ability, for general layout and design of refinery equipment. Apply by letter with photo. State salaries earned and reasons for leaving last two positions. Location, Northern California.

R-3403-S INDUSTRIAL ENGINEER, not over 35, with experience dealing with labor and production problems as well as rate setting. Must have organizing ability, initiative, tact and energy, technical education and a liking for mathematics as applied to production costs. Apply by letter giving experience in detail, education and general qualifications, with photo. Salary open. Location, Pacific Coast States.

K-329-W-1954-C-S SUPERINTENDENT of motive power for steam railroad. Must have had recent experience in such position with prominent American railroad. Salary \$20,000-25,000 a year of which one-third to one-half must be in paper rubles for living expenses. Balance in United States money to American bank. Contract for one year, renewable. Applications only by letter which will be forwarded to Moscow for decision. Location, Russia.

R-3417-S DRAFTSMAN and designer experienced on reinforced concrete structures. Must be American citizen. Salary \$250 month. Temporary location, East Bay.

UPHOLD PAYMENT MADE ON A WRONG ACCOUNT

If a contractor has two or more accounts with a materialman he must direct the latter to which account a payment shall be credited, otherwise the materialman may legally credit any account he chooses, says The Constructor. This and other points of the law were decided in *Radichel v. Federal Surety Co.*, 226 N. W. 473. The facts proved that a contractor had several accounts with a materialman, and that he made a payment. Through error the materialman failed to credit the proper account. In this case the court held the owner bound to pay this full amount, saying:

"The contractor could designate the account upon which the credit should be made. In the absence of such designation, plaintiff (materialman) could apply it as it desired. Here it eventually appeared upon plaintiff's books as was the intention of both debtor and creditor. Defendant had no right to direct how it should be applied or to whom it should be paid."

ARCHITECTS IGNORED

Cass Gilbert has received the gold medal of the Society of Arts and Sciences for his masterpiece, the Woolworth building.

Architecture is the one art in which Americans can lay some claim to being pre-eminent. Yet few Americans know the names of the men who designed the great buildings which foreigners visit and go back home to tell the folks about.

Arthur Page Brown, for example, designed the Ferry building. Yet how many of the thousands who hurry through that lovely structure ever heard the name of that architect?

School children might well memorize the names of the men who designed the principal or most lovely structures in their city.—S. F. Examiner.

Oakland Sued On Ferguson Dock Patent

The city of Oakland has been warned to keep off its Ninth Avenue pier.

G. D. Keyston, representing the Dock & Terminal Engineering Company of Cleveland, owners of the so-called "Ferguson patent" for building docks, informed the council that the Ninth avenue pier is an infringement on the Ferguson patent, and warned the city not to use the pier or to permit this alleged infringement of the patent to exist any longer. A demand was also made for all profits of the pier since its construction.

Arthur Abel, head of the engineering staff of the port commission, declared that nearly all cities with docks are being sued for alleged infringements of the Ferguson patent, and a suit for \$225,000, instituted in San Francisco three years ago, is still pending in courts.

"There are 14 points of construction in the Ferguson patent," Abel, "and probably every dock in the country uses some of these methods. There has been much question as to whether they could be monopolized by any one commercial company. That is also in the courts. It is a sub-floor system. They claim that their patent is violated anywhere where concrete is used. As there is a lot of concrete used on docks, there are a great many lawsuits about it from the Ferguson representatives. We will, however, continue to use the dock."

The Ferguson letter to the council was referred to the city attorney.

INCORPORATES

The Richmond Paint Products Company have filed papers of incorporation in Martinez. The firm is capitalized at \$250,000. A previous announcement made by the firm is to build a plant at Thirteenth Street at the Santa Fe tracks. A fire resisting paint products is to be manufactured.

The following are a list of directors: Charles B. Hall, San Leandro; W. B. Bohrmann, William Reuter and Fred Hurlbert, all of Oakland; A. E. Aldrette and Dr. George Sisson of Berkeley, and E. J. Duffy of Richmond.

Horace E. Plummer, chief of the bureau of buildings of Portland, Ore., sees an \$11,770,000 building program for that city. A new post office involves an expenditure of \$1,175,000; the Commonwealth Building, \$3,000,000; Lloyd Hotel, \$3,000,000 and a twelve-story office building costing \$625,000 are a few of the items included in his building optimistic view

LOCAL LABOR FOR PUBLIC PROJECTS AIM OF FRESNO COUNCILMEN

Favoring passage of an ordinance which would compel all contractors doing public work to employ none but residents of Fresno County and American as a matter of public policy, the Fresno city commission during an informal meeting with Clarence Dowd, secretary of the Fresno Labor Council and father of an ordinance of that nature, questioned the constitutionality of such a move.

As a result, City Attorney Claude Rowe was requested to work with Dowd in framing an ordinance which "would protect Fresno labor" and at the same time be legal. Action was withheld until they report.

Dowd presented an ordinance which he said was in effect in Santa Barbara and San Bernardino, which proposes a fine of \$100 per man per day for any contractor who employs any but Fresno County residents on public work.

Rowe said that he was not certain as to the law of the matter, but believes it would be invalid. He said the ordinance could not specify Fresno County residents but would have to be restricted to residents of the city of Fresno. Dowd voiced no objection to this, stating that San Diego and Los Angeles ordinances required that the employees be residents of the city, but said he felt that inasmuch as there are large numbers of Fresno laborers living on the outskirts of the city, he made it Fresno county instead of confining it to the city.

City Commissioner George Ball read a letter he received from Loren A. Butts, former city attorney, in which Butts said he believed the ordinance would be illegal and would tend to stifle competition in bidding on public projects, would limit the field of labor to a small market and as a result would increase the cost of such projects to the taxpayers. Dowd countered with the statement that Minneapolis recently paid a contractor \$3,000 more than it would have had to pay another contractor for the same work and materials on a project there, merely because the contractor was a Minneapolis man.

Dowd said that it was merely a matter of protecting home labor. He said the unemployment situation in Fresno is getting serious. He said there are 200 carpenters in Fresno of whom 175 are out of work. He said a similar situation exists in other skilled trades and that the labor unions are being forced to help out families in actual want.

SANTA ROSA CONTRACTORS ORGANIZE EXCHANGE

To create better conditions in the building industry, thirty-five general contractors, sub-contractors and material dealers, at a meeting in the Occidental Hotel at Santa Rosa last Wednesday evening organized the Santa Rosa Builders' Exchange. Fully organized the exchange will have a membership of seventy-five, according to W. L. Lindsay, acting chairman and C. L. Roberts, acting secretary of the organization.

Two committees were appointed, one to submit a set of by-laws at the next meeting, which will be held next Tuesday, and another to have charge of the organization plans.

William Herbert, Robert Yates and C. W. Hansen compose the by-laws group, while H. E. Huntington, Cecil Halstead, City Building Inspector Walter Stracke, A. M. Hildebrand and A. Smith are on the organization committee.

NEGLECTED PHASES OF OUR HOUSING PROBLEM ARE CITED BY CITY PLANNING ENGINEER

(By Leonard S. Smith, City Planning Engineer)

Mr. Smith is a member of the American Society of Civil Engineers and former Professor of City Planning and Highway Engineering at the University of Wisconsin.

The paper published herewith was presented at the Ninth Annual Meeting of the Pacific Coast Building Officials Conference, held at Long Beach, Calif., October 2, 1930.

The adequate housing of our workmen and, to a large extent, the proper housing of his "white collar" brother constitutes the nation's and the world's greatest problem because its solution will aid that of so many other civic problems.

America's housing problem differs from that of other nations chiefly in the fact that we have the financial resources needed to remove this great menace to our democratic institutions. We lack only the understanding and the will to do so.

Your speaker wishes to emphasize the fact that our American housing problem concerns much more than a shortage of homes or a surplus of dirty slums, though both of these evils are acute. Too many of our citizens appear to think and act as though class distinctions were built on natural rather than on artificial grounds and that the crowded slum is the proper or natural abode for certain citizens and the palatial home for others. Are we not through indifference suffering less from a shortage of homes than from a shortage of civic vision and has not this form of selfishness brought heavy penalties to us all? For if we force people to live like pigs, we must expect them to act like pigs toward us. It is, indeed, just as possible to kill a man with a bad house as it is to kill him with a gun. It is only a case of a cruel, lingering death rather than a quick death.

A great teacher has said: "The heart of the world is under very plain jackets. The heart of the world is at very simple firesides and unless you know the pressure of life among the lower classes, you know nothing of life whatever."

In a brand new country like ours the sweating of the land by crowding it with houses and tenements and by crowding these houses with slum families is, indeed, shameful but so unnecessary. Such selfish exploitation of the community's welfare and safety must cease for our own safety if not for others'. It is full time that we recognize the fact that the fierce resentment cherished toward society by certain classes often has a real basis and the lack of a decent home for parent and child is often the prime and adequate cause for this resentment. We must recognize that, more fundamental than imprisoning communists or deporting aliens bolsheviks is the prompt adoption of an intelligent housing policy which will prevent the creation of such enemies of society by providing reasonable home environment.

Mr. Walter McNowell, vice president of the Pacific Coast Building-Loan Association, in last month's Coast Investor, said, "Is it not an indictment of our boasted prosperity that folks still abide in city slums, crowded tenements, the prey not only of poverty and disease but also of crooked politicians and criminals—and this at a time when there is so much sunshine, fresh air and uncrowded acres of uninhabited land?" Have we not in the past depended

too much on community chests and upon individual charities to relieve the ever continuing needs of the homeless dweller, the human weeds of our social system and so often the main supply of our criminal class? Such a method is only treating the symptoms of the disease and can furnish no real or adequate remedy. Every day present slums grow in size and new slums are created by land sweating.

What is most needed is the adoption of land policies which will prevent the millions of our much needed new homes from becoming blighted districts and slum communities. Experience has abundantly proved that the crowding down and misallocation of slum areas is too expensive to serve as a general remedy. Since there can be only one crop of land, how important it is that it should be expertly planned and protected by suitable zoning protections and restrictions.

Indeed, it is along such lines that our cities have recently made the most progress. Where such measures have failed, the cause can be traced to city councils in destroying the permanency of such regulations by frequent revisions and exceptions to the zoning ordinances.

Government Aid

It may not be generally known to this audience that every European nation has been engaged in providing low-cost housing for its workmen for many years. Even since the war, England has provided over 500,000 such houses. During the war our own government built over 60,000 houses in thirty different cities for munitions and ship workers. This was done as a war measure, for it was found that we could not "man the works until we had housed the man."

However, the prejudice against the direct participation of government in housing in this country is such as to preclude such a remedy in peace times.

Some form of tax exemption has been frequently used by some states to encourage home building. It will be noted that such exemption did not apply on the land values but only on the houses and even here the exemption was limited in time generally to ten years.

Excessive Taxation of the Homes

Lieut. Governor R. L. Carnahan states in the August Coast Investor that the total city, county and state tax burden is now 609 million dollars and he figures that the head of every family of five pays on an average of \$1.35 per day and this in addition to any special assessments. He justly states that "When you take \$1.50 out of the daily income of the average man who has a wife and three children you are taking a very substantial proportion of his income and this is a problem to which we should give earnest consideration."

It might easily be that even a small part of this \$1.50 if invested in a building and loan association would provide a home in a reasonable time. No other element contributes to good citizenship as does home ownership and yet at the present time about 60% of our people live in rented houses and move about from year to year. This lack of a fixed habitation breeds an indifference to local civic needs and problems, resulting in dishonest government.

Mr. McNowell suggests that we offer a tax exemption of 5000 on new homes to encourage home ownership. "The basis of all material, moral and

spiritual excellence." He also suggests that taxes be fixed not only on the value of the property but also on the ability of the owner to pay. While the justice of this plan is obvious, the difficulties, legal and otherwise, would probably prevent its adoption.

Excessive Special Assessments

Even if the home owner is successful in meeting the tax demand of the city and county, he frequently must face the payment of numerous and excessive special assessments, often several overlapping. Mr. Carnahan cites one extreme case where over three square miles within the city limits of Los Angeles special assessments had been levied of over forty per cent of the market value of the real estate upon which they were placed.

While these conditions are partly due to our rapid growth in population and wealth, a far more important cause of such maladjustment of tax burdens is due to the lack of sane city planning, past and present. But whatever the causes, it is obvious that excessive taxes and special assessments are powerful deterrents of home ownership. Both call loudly for reform.

New Houses Needed

With our 600,000 new marriages annually the country should provide a corresponding number of new houses. Since 1921 the new houses provided annually have never been over 500,000 and have averaged about 400,000. In Los Angeles alone the number of new housing units has dropped from 19,509 in 1923 to 5,301 in 1929. The housing of our day laborers, especially the Mexican and Negro, is far below standard and often disgraceful, while the housing of the middle class mostly in tenements—one to three rooms—is lacking in the amenities of wholesome family life with the resulting low birth rate and high divorce rate.

An eminent jurist, Supreme Court Justice Lewis of Brooklyn, recently said, "It is my conclusion that childless homes are responsible for the almost complete absence of home life. Not long ago a home meant something. It was the location of our birth. It was the place where we entertained our friends and where we had our family functions. Today we are born in hospitals, we entertain in clubs, we eat in restaurants, we are married in churches, or hotels, and we are buried from funeral parlors."

While the above picture is somewhat overdrawn, it remains true of a large part of our people who are denied the blessings and comforts of a one-family home and furnishes an unanswerable argument for more and better homes.

Industrial Housing

In addition to the notices which should win the tax and selfish assistance of every good citizen to our housing problem, the employers of labor possess the more tangible and selfish motive of direct self-interest in the economies of production.

Especially since the war the labor turnover of our large industries has been exceptionally high, mostly due to the inadequate housing of labor. This labor turnover has frequently been several hundred per cent. As the cost of hiring and firing a man may average about \$30, a high labor turnover results in an excessive cost of production. Realizing the fact of such a handicap, several thousands of industries have invested large amounts of their capital in housing their labor and justify such investments in the resulting economies of production due to the increased efficiency of their labor and the reduced cost of labor turnover.

Put our nation needs a more efficient and more loyal citizenship even more than does industry. A million new homes for workmen is not too many for present requirements es-

pecially if we are to replace our slum houses with decent homes.

If we are to extend our foreign markets, opened up by the war, indeed, if we are even to maintain our present supremacy, we must not only house our new industrial machinery but, more important still, we must adequately house our industrial workers, the human machines upon whose health and efficiency so largely depends the economies of mass production.

Democracy has no greater nor more far-reaching handicap than the housing conditions that mar our cities, villages and even our farm homes. Evidently not much longer can the richest and most powerful nation in the world postpone the solution of this its greatest civic problem, a problem that influences so vitally the character and permanency of our democratic institutions.

We need most ideals that can be followed in daily life, that can be translated into terms of the home. Our engineer president evidenced such ideals only last month (August) by announcing the organization of a nation-wide investigation to accomplish the following three objects:

- (1) To increase the supply of capital available for home building;
 - (2) To reduce the cost of financing building and purchase of dwellings on the installment payment plan, and
 - (3) To bring within reach of the most modest means homes of artistic design equipped with every comfort and convenience.
- This inquiry, privately financed, will be known officially as the "White House Conference on Home Building and Home Ownership." The personnel of the conference is such as to inspire confidence that at last we shall have the facts to justify appropriate and adequate action.

Summary of Points

- (1) The adequate housing of our people is the nation's greatest civic and economic need.
- (2) The greatest obstacle to the proper solution of this need of more and better housing is the general ignorance concerning this need.
- (3) The sweating of the land by crowding it with houses and people must in the end result in blighted districts, debased citizenship, reduced land values and increased taxation for prisons, courts and hospitals.
- (4) Community chests are a palliative, not a real remedy. When our people understand the situation thru education the first and most important step has been taken.
- (5) Public zoning of the land has been found most valuable by permanently protecting our housing.
- (6) Government aid has been found helpful through exemption from taxation of the houses (not of the land) for a limited period.
- (7) Present method and extent of levying of special assessments discourage home building.
- (8) Building and Loan companies encourage and directly aid home ownership by providing for payment by monthly installments.
- (9) 600,000 new homes units are annually required. We are 1,000,000 home units behind our present requirements. Home building in Los Angeles in the last six years has dropped 73%. The Los Angeles Realty Board reported 41,000 new homes needed here in the next 32 months.
- (10) Industries should more generally use capital for housing their men as well as their machinery and not expect the laborer to come to the factory site with a house on his back like a turtle. Otherwise a new factory may be a community liability instead of an asset.
- (11) President Hoover's Housing Committee is at last organized so as to get the facts of our housing problem and propose the needed remedy.

BUILDER IS LIABLE FOR DEFECTIVE WORK

It is well settled that a contractor is not entitled to payment and that he is liable to an owner if the building does not conform with the plans and specifications, says The Constructor. The amount of damages allowable is the cost of altering the building to conform with the contract, plus any other damages proved by the owner.

In *Morrel v. Simonian*, 254 Pac. 694, the contractor agreed to construct a building according to the plans and specifications. The specifications provided that the cement should be three inches thick. When the building was completed the owner discovered that the cement, instead of complying with the specifications, was only two inches thick and that the building was defective in other respects. He sued the contractor for damages and the lower court held the owner entitled to recover \$354. The contractor appealed to the higher court which, however, upheld the lower court's decision, saying:

"A witness testified that he was present when appellant (contractor) commenced the construction of the building; that he saw the building many times; that it was not level, being lower on one side than the other; that he had measured the cement, and that it was only two inches thick, and in some places not quite that much; and that he also noticed that the studding had buckled and that the roof was sagging. We are of the opinion that, under this evidence, the lower court's findings are sustained."

STATES MAY LIMIT WEIGHT OF VEHICLES ON ROADS

The Illinois supreme court, in the case of the People against W. Linde, has ruled that the legislature is within its constitutional rights in limiting the weight of vehicle loads on roads in Illinois, says Engineering News-Record. Linde was in the employ of Green, Mullerbrueck & Nagel, Inc., a corporation engaged in construction work. When arrested Linde was driving a truck towing a trailer upon one of the improved highways of the state on the way to a job on which the corporation was engaged in building a state road bridge. Upon the trailer was a crane, and the weight on the front axle of the trailer was 28,000 lbs. The state law, provides that the maximum gross weight to be permitted on the road surface through any axle of any vehicle shall not exceed 16,000 lbs. On being convicted and fined in the lower court, Linde appealed.

The evidence at the trial disclosed that the corporation could not be a successful bidder on construction jobs of the type to which the crane was being moved unless such crane could be used; that if it were barred from the highway its only value would be as junk; that it would be "impracticable" to take the crane apart and reassemble it and that to do so would require the assistance of another crane.

The court held that the state has paramount authority and control over its highways; that no one has an absolute and unqualified right to use them; that in the exercise of its police powers the general assembly has the power to limit or prohibit the use of the state highways by any kind of vehicle if such limitation or prohibition is reasonably necessary to save

the highway from injury or to provide for the public safety and general welfare, and that even though such regulation may result in a restriction of liberty of contract or use of private property, there is no invasion of any guarantee of the Constitution of the United States or of the Constitution of Illinois.

COLD PROCESS ROOFING CEMENT MARKETED

Roofing and building contractors will be interested in the announcement of the Willard Rubber Company, Ltd., of San Diego, to the effect that after a long series of experiments, the company's chemists have succeeded in developing a cold process roofing cement for built-up roof work.

The claims for this new cement are: Applied cold, it eliminates fire hazard during application and the attendant high insurance; it reduces labor costs; it establishes a perfect bond between the plies of felt; it does not dry out, causing cracks to develop in the felt; it lengthens the life of felt; it retains its elasticity, conforming with changes of temperature; being of rubber composition, it forms additional layers of water-proofing; it does not gasify, causing gas pockets between layers; gravel, crushed stone, etc., as surfacing material become firmly bonded, and remain so, since the cement does not dry out and release the particles.

Service tests in the Southwest where the action of the sun combined with the cold nights plays havoc with felted cemented with inelastic quick-drying cements, convince the manufacturers that this product will give the same satisfaction in all parts of that country that it has under test.

The manufacturers believe that builders in rural sections, where roofing contractors may not be available, will be able with this cold process cement to obtain all the advantages of a built-up roofing that, lacking equipment, have hitherto been denied.

AUSTRALIAN SAW MILLS TO IMPROVE PRODUCT

An improved product and reduction in costs of manufacture of native lumber are being sought after by Australian saw-millers, says a communication from James E. Peebles, American Trade Commissioner at Sydney to the Lumber Division of the Department of Commerce.

It is reported that Australian mill men are going over their production methods and making a careful study of dry kiln methods. Attempts are also being made to arrive at a simplification of the various sizes of commonly used stock and to eliminate all unnecessary handling and intermediate marketing charges.

Hitherto, it is reported by the trade, native lumber used in buildings has shown marked tendencies to warp due to improper manufacture and seasoning. This is quite evident in native flooring.

Silent and roller chains, sprockets and attachments are the subject of a new 124-page catalog issued by the Union Chain & Mfg. Co., Sandusky, Ohio, which contains not only complete information on these products but also engineering data of practical value in figuring chain drives.

The Bucyrus-Erie Company of South Milwaukee, Wisconsin, has issued the 20-page Bulletin No. FB-10301, which describes and illustrates the convertible Bucyrus-Erie three-fourth-yard shovel, dragline, clamshell, drag shovel, and lifting crane, and gives the main specifications. A copy may be obtained upon request to the manufacturer.

Building News Section

APARTMENTS

Sub-Figures Being Taken
APARTMENTS Cost, \$60,000
SAN FRANCISCO. NE Beach and Scott Streets.
 Three-story and basement frame and stucco apartments (12 3 and 4-room apts.)
Owner and Builder — V. Rasmussen, 2255 North Point St., San Francisco.
Architect—Irvine & Ebbets, Call Bldg., San Francisco.

Sub-Bids Being Taken.
APARTMENTS Cost, \$150,000
SAN FRANCISCO. SE Sacramento and Gough Streets.
 Seven-story steel frame, wood and concrete Class C apartments (42 apts.)
Owner—W. Props, 1801 California St., San Francisco.
Architect—Irvine & Ebbets, Call Bldg., San Francisco.
Engineer—W. Adrian, 417 Market St., San Francisco.

Preliminary Plans Being Prepared.
APARTMENTS Cost, \$125,000
FRESNO, Fresno Co., Cal. Fulton and Sacramento Sts.
 Fireproof apartments.
Owner—I. Teilmann, Kearney and Teilmann, Fresno.
Architect—W. D. Coates, Jr., Rowell Bldg., Fresno.

Permit Applied For.
APARTMENTS Cost, \$17,500
SACRAMENTO, Sacramento Co., Cal. 2124 P Street.
 Two-story and basement frame and stucco apts. (22 apts.)
Owner—Hark & Mackrell, 1517 17th St., Sacramento.
Architect —Not Given.

Preparing Sketches.
APARTMENTS Cost, \$400,000
LOS ANGELES, Cal. Wilshire Dist.
 Thirteen-story and basement Class A reinforced concrete apartments (13 12 room apts.)
Owner—George J. Moran.
Architect—Arthur E. Harvey, 3875 Wilshire Blvd., Los Angeles.

Pids Opened—Under Advise ment.
APARTMENTS Cost, \$200,000
BERKELEY, Alameda Co., Cal. Sacramento St. and University Ave.
 Three-story class C brick apartments (56 2-3 and 4-room apts.)
Owner—Davis-Pearce Co., Grant and Weber Sts., Stockton.
Architect and Manager of Construction—Davis-Pearce Co., Grant and Weber Sts., Stockton.
 Following contractors submitted figures.
 H. L. Petersen, 731 Treat Ave., San Francisco.
 Monson Bros., 476 6th Street, San Francisco.
 Wm. Horstmeyer, 461 Market St., San Francisco.
 G. P. W. Jensen, 320 Market Street, San Francisco.

Sub-Contracts Awarded.
APARTMENTS Cost, \$175,000
SAN FRANCISCO. Green Street near Octavia Street.
 Six-story class A steel frame and concrete apartments (112 rooms).

Owner and Builder—F. L. Hansen, 282 Seventh Street.
Engineer—John G. Little & Co., 251 Kearny St.
Reinforcing Steel—W. C. Hauck, 280 San Bruno Ave.
Painting—R. P. Paoli, 3159 Fillmore Street.
Flooring—Regal Floor Co., 620 4th St.
 As previously reported, ornamental iron awarded to C. J. Hillard Co., Inc., 19th and Minnesota Sts.; structural steel to McClintic-Marshall Co., 2050 Bryant St.

Contract Awarded.
APARTMENTS \$10,000 (1st Unit)
EUREKA, Humboldt Co., Cal. Clark and E Streets.
 Two-story frame and stucco apartments (4 4-room apts.)
Owner—Dr. Barbara A. Gasser.
Architect—Newton Ackerman, 102 W. Fourth St., Eureka.
Contractor—Willis J. Steeves, 2303 Union St., Eureka.

Bids Opened.
ADDITION Cost, \$22,000
WATSONVILLE, Santa Cruz Co., Cal.
 Three-story frame and stucco addition to apartments (4 apts.)
Owner—Stewart Thompson, 19 Madison St., Watsonville.
Architect—Wolfe and Higgins, Realty Bldg., San Jose.
 Garage to care for 10 cars, steam heating plant, etc.
 Following is a complete list of bids:
 Sam. D. Flori, 985 Hamlin St., San Jose\$17,141
 Paul Anderson, San Jose..... 18,823
 T. H. Rosewall, Watsonville..... 18,848
 B. J. Smith, San Jose..... 19,000
 I. E. Lovelace, Watsonville..... 20,196
 Bids held under advisement.

Preparing Working Drawings.
APARTMENTS Cost, \$70,000
SAN FRANCISCO. Cor. Cervantes and Prado Sts.
 Three-story and basement frame and stucco apartments (21 2 and 3-room apts.) (composition roof, steam heat and hot water system, elevator).
Owner & Builder—Ben Liebman, 1555 Francisco St., San Francisco.
Architect—Irvine & Ebbets, Call Bldg., San Francisco.

SKILSAW Portable Electric Hand Saws (4 models).
SKILSAW Portable Electric Sander
SKILSAW Radial Arm Attachments.
SYNTRON Portable Electric Hammers (4 models, motorless).
MALL Flexible Shaft Machines (50 "models).
 Electric Drills, Grinders, Buffers, Routers, Lock Mortisers.

PETER H. NELSON

Labor Saving Portable Electric Tools.

1248 Mission St. Underhill
 San Francisco 7662
 SALES . SERVICE . RENTALS

BONDS

SANTA MONICA, Los Angeles Co., Cal.—Fred S. Wilson, Industrial secretary for Santa Monica, proposes that the citizens of Santa Monica vote a bond issue of \$100,000 for the erection of a 6-story fireproof industrial building to give employment to the jobless. Action has not been taken by the city council.

FRESNO, Fresno Co., Cal.—Bullard School District defeated bonds in the amount of \$34,000 to finance construction of new school and other improvements.

CHURCHES

Preliminary Plans Prepared.
CENTER Cost, \$30,000
SACRAMENTO, Sacramento Co., Cal. Fifth and P Streets.
 Two-story brick Christian Center.
Owner—First Japanese Baptist Church of Sacramento.

Architect—Chas. F. Dean and Ivan Satterlee, Associate, California State Life Bldg., Sacramento.
 The building will be erected in two units. The first unit will include a large auditorium and garage on the first floor, and a gymnasium, stage and room on the second. The second unit will include classrooms and offices on the first floor, a cafeteria and offices on the second and manual training and domestic arts rooms on a third floor.

Bids Opened.
CHURCH Cost, \$100,000
SACRAMENTO, Sacramento Co., Cal. SW 39th and J Sts. (106x324 ft.).
 Two-story brick and concrete church.
Owner—Roman Catholic Bishop (Rev. M. L. Lyons, pastor).
Architect —Harry Devine, California State Life Bldg., Sacramento.
 Following is a complete list of bids received:
 Alt. No. 1, ded. for omitting terra cotta on entrances and substituting cast stone.
 Alt. No. 2, ded. for omitting travertine on culverts, side altars, etc.
 Alt. No. 3, ded. for omitting galvanized iron on ducks and grills from exhaust system.
 Alt. No. 4, ded. for substituting California stucco for acoustical plaster.

Wm. C. Keating, Forum Bldg., Sacramento, \$99,000; (1) \$1500; (2) \$2700; (3) \$1200; (4) \$800.
 Azevedo and Sarmiento, Sacramento, \$101,282; (1) \$1300; (2) \$3900; (3) \$1200; (4) \$800.
 Campbell Constr. Co., Sacramento, \$101,674; (1) \$1520; (2) \$3850; (3) \$1514; (4) \$870.
 Barrett & Hulp, San Francisco, \$101,972; (1) \$1500; (2) \$3700; (3) \$1100; (4) \$800.
 Lindgren & Swinerton, Inc., San Francisco, \$103,777; (1) \$2905; (2) \$3670 (3) \$1450; (4) \$830.
 H. W. Robertson, Sacramento, \$105,653; (1) \$1600; (2) \$3800; (3) \$1600; (4) \$1000.
 McGillivray Constr. Co., Sacramento, \$111,550; (1) \$1450; (2) \$3670; (3) \$1400; (4) \$830.

Plans Being Completed
CHURCH Cost, \$250,000
 SAN FRANCISCO. Funston Ave. and
 Judah St. (120x245-ft.)
 Class A reinforced concrete church
 (2000 seating capacity).
 Owner—Roman Catholic Archbishop
 of San Francisco, 1100 Franklin
 Street.
 Architect—Shea and Shea, 454 Mont-
 gomery Street.
 Bids will be taken in thirty days

Bids Opened—Under Adjudgment.
CHURCH Cost, \$20,000
 EUREKA, Humboldt Co., Cal.
 One-story redwood church (Colonial
 type).
 Owner—First Methodist Church.
 Architect—Rollin S. Tuttle, Box C,
 Los Gatos.
 Plans will probably be revised and
 low bidders asked to re-figure the
 plans.

FACTORIES AND WARE- HOUSES

Plans Being Figured—Bids Close Dec.
 10.
WAREHOUSE Cost, Approx. \$150,000
 SAN FRANCISCO. Sansome and Val-
 lejo Streets
 Three-story reinforced concrete ware-
 house.
 Owner—Poultry Producers of Central
 California, 700 Front St., S. F.
 Architect—H. C. Baumann, 251 Kear-
 ny St., San Francisco.
 Bids are being received by the own-
 ers.

Sub-Bids Being Taken.
FACTORY Cost, Approx. \$14,000
 SAUSALITO, Marin Co., Cal.
 One-story reinforced concrete boat
 and motor factory.
 Owner—Italian American Motors Co.,
 Inc., 604 Montgomery St., San
 Francisco.
 Plans by McFarland & Moore, 126 Otis
 St., San Francisco.
 Contractor—McFarland & Moore, 126
 Otis St., San Francisco.
 As previously reported, concrete
 awarded to Paramount Concrete Co..

Preparing Working Drawings.
FACTORY BLDGS. Cost, \$500,000
 FRUITVALE, Alameda Co., Cal.
 Group of reinforced concrete factory
 buildings.
 Owner—Oliver United Filters Co., Inc.,
 Fourth and Madison Sts., Oakland
 Architect—Reed & Corlett, Oakland
 Bank of Savings Bldg., Oakland.
 Bids will be called for about Feb.
 1, 1931.

Plans Being Revised.
SERVICE BLDG. Cost, \$45,000
 REDWOOD CITY, San Mateo Co., Cal.
 Group of service buildings (wood
 frame and tile walls).
 Owner—Pacific Gas & Electric Co., 245
 Market St., San Francisco.
 Plans by Eng. Dept. of Owner.
 Group includes warehouse, garage,
 service departments, superintendent's
 offices, etc.
 New bids will be called for in about
 one week.

Planned.
REFINERY Cost, \$15,000
 PORTERVILLE, Tulare Co., Cal.
 Deer Creek.
 First unit of refinery (50 barrel per
 day, capacity).
 Owner—Terra Bella Refining Co., Ltd.
 Porterville.
 Architect—Not Given.
 H. P. Mitchell and B. F. Bond of
 Long Beach are interested in the pro-
 ject.

Plans Being Completed.
FACTORY Cost, \$200,000
 OAKLAND, Alameda Co., Cal. 102nd
 Avenue.
 One-story Class C concrete factory (to
 cover area of 12,000 sq. ft.).
 Owner—Hammer Bray Co., 26th Ave.
 and E-12th St., Oakland.
 Architect—Clay N. Burrell, American
 Bank Bldg., Oakland.
 Consulting Engineer—W. W. Hanscom
 26th Ave and E-12th St., Oakland
 Segregated bids will be taken in one
 week.

Plans Being Completed.
WAREHOUSE, ETC. Cost, \$60,000
 SANTA ROSA, Sonoma Co., Cal.
 Service group (warehouse, garage,
 shops, transformer house, meter
 base, pole yard, etc.)
 Owner—Pacific Gas & Electric Co., 245
 Market St., San Francisco.
 Architect—Eng. Dept. of Owner.
 Bids will be called for in about one
 week.
 As previously reported, grading con-
 tract awarded to Connors & Hansen,
 Santa Rosa.

Hemet, Riverside Co., Cal.—W. C.
 Reardon, representative of the Los
 Angeles Brick Co., announced that im-
 provements to cost \$100,000 were to
 be made at the company's Alberhill
 plant at Hemet.

Contract Awarded.
FOUNDRY Cost, \$12,500
 OAKLAND, Alameda Co., Cal. 1919
 Peralta St.
 One-story steel foundry and machine
 shop.
 Owner—F. L. De Sanno, 4437 E 10th
 St., Oakland.
 Architect—Not Given.
 Contractor—R. C. Porter & Co., 356
 Adeline St., Oakland.

Contract Awarded.
FACTORY Cost, \$30,000
 OAKLAND, Alameda Co., Cal. 18th
 and Peralta Sts.
 One-story and mezzanine floor class
 C concrete factory.
 Owner—Samarkand Ice Cream Co., 393
 Folsom St., San Francisco.
 Architect—O'Brien Bros. and W. D.
 Peugh, 333 Montgomery St., San
 Francisco.
 Contractor—Cahill Bros., 206 Sansome
 St., San Francisco.

Working Plans Being Prepared.
ICE PLANT, ETC. Cost, \$700,000
 ANTELOPE, Sacramento Co., Cal.
 Lime and dry ice plant comprising
 opening quarry, cable lines, bunk-
 ering system, unloading system,
 manufacturing plant buildings,
 raw material, storage quarters,
 etc.

Owner—California Lime and Prod-
 ucts Co., R. L. Hollingsworth,
 general manager, Lincoln, Calif.
 Engineers—Smith-Emery Co., 651
 Howard St., San Francisco.
 Lime plant will have a capacity of
 500 tons per day. Liquid CO₂ plant,
 50-ton capacity dry ice per day.

Plans Being Completed.
HANGAR Cost, \$35,000
 SACRAMENTO, Sacramento Co., Cal.
 Freeport Blvd. at Municipal Air-
 port.
 Steel frame and wood hangar and air
 terminal station, 80x100 ft.
 Owner—City of Sacramento (to be
 leased to Boeing Air Transport
 Company).
 Architect—Harry Devine, 1405 41st
 St., Sacramento.
 Bids will be taken in about 10 days.
 Structure will be of steel frame and
 wood construction covering an area
 of 80 by 100 ft., with an exterior cov-
 ering of corrugated iron.

GARAGES AND SERVICE STATIONS

Bids Opened—Held Under Adjudgment
SALESROOM, ETC. Cost, \$20,000
 SAN FRANCISCO. Location With-
 held.
 One-story brick salesroom and ser-
 vice station.
 Owner—Ray Hasselback (Ford dealer)
 Architect—James S. Arnott, 417 Mar-
 ket Street.
 Engineer—W. Adrian, 417 Market St.
 Announcement will be made in a
 few days.

SALINAS, Monterey Co., Cal.—
 Until December 1, 7:30 P. M., bids will
 be received by M. R. Keef, City Clerk,
 to erect garage and construct side-
 walk for same. Plans obtainable from
 city clerk.

Contract Awarded.
SERVICE STATION Cost \$5000
 BURLINGAME, San Mateo Co., Cal.
 California Drive.
 Service Station.
 Owner—Jeremiah Kelleher.
 Architect—Not Given.
 Contractor—Charles Hammer, 1524
 Floribunda Ave., Burlingame.

Contract Awarded.
SERVICE STATION Cost, \$10,000
 BELMONT, San Mateo Co., Cal. 5th
 and El Camino Real.
 Masonry service station.
 Owner—Louis C. Atkinson, Atherton.
 Architect—Not Given.
 Contractor—Louis N. Pollard, 55
 Brewster, Redwood City.

A restaurant, luncheon, wash and
 polishing rack, with general repair
 shop, will be included. Grounds will
 be improved with shrubbery and
 lawns.

November 25, 1930
SANTA BARBARA, Cal.—The Hol-
 lister Estate, Santa Barbara, is hav-
 ing plans prepared for a two-story
 Class A reinforced concrete garage
 (25,000 sq. ft.) to be erected on Car-
 rillo St., Santa Barbara, and to be
 leased by Raymond Benson, 115 N.
 Alisos St., Santa Barbara. Cost
 \$100,000.

Plans Being Prepared
SALES BLDG. Cost, \$25,000
 SAN FRANCISCO. Seventh Ave. and
 Irving St.
 One-story reinforced concrete auto
 sales and service building.
 Owner—Berry Motor Co., 733 Douglas
 St., San Francisco.
 Architect—James Arnott, 417 Market
 St., San Francisco.

Contract Awarded.
SERVICE STATION Cost \$4000
 OAKLAND, Alameda Co., Cal. NW
 55th and Camden Sts.
 One-story steel frame service station.
 Owner—Leonard C. Sleep.
 Architect—Not Given.
 Contractor—A. R. Johnston, 12 Wild-
 wood Ave., Oakland.

Contract Awarded.
STATION Cost, \$6500
 OAKLAND, Alameda Co., Cal. E-
 Fourteenth St. and 24th Ave.
 One-story Class C steel frame service
 station.
 Owner—Associated Oil Co., 79 New
 Montgomery St., San Francisco.
 Architect—Eng. Dept. of Owner.
 Contractor—Dyer Constr. Co., Ray
 Bldg., Oakland.

GOVERNMENT WORK AND SUPPLIES

MARE ISLAND, Cal.—Following 3
 low bids submitted to Bureau of Yards
 and Docks, Navy Department, Wash-

ington, D. C., to furnish 40-ton electric gantry crane and runway at Mare Island Navy Yard;
(a) deduct for runway,
Judson-Pacific Co., 609 Mission St., San Francisco, \$75,685 (a) \$32,000.
Cleveland Crane & Eng. Co., Wyckliff, Ohio, \$80,952; (a) \$29,590.
Whiting Corp., Harvey, Ill., \$82,895; (a) \$26,895.
Complete list of bids will be published shortly.

Bids Opened.
QUARTERS Cost, \$—
WHEELER FIELD, T. M. Schofield Barracks.
Forty-nine sets of noncommissioned officers' quarters and one bachelor noncommissioned officers' building, including all grading and utilities therefor.
Owner—U. S. Government.
Architect—Department Quartermaster Construction Division, Ft. Shafter, T. H.

Following is a complete list of the bids, all bidders of Honolulu, T. H.:
J. H. Young Eng. Co., Ltd. \$152,000
E. E. Black, Ltd. 502,088
Ralph E. Woolley 553,554
Walker & Olund, Ltd. 570,116
Ames-Vill, Ltd. 584,676
Bitulithic Paving & Concrete Co., Ltd. 596,917
J. L. Young Eng. Co., Ltd. 613,100
Marks Const. Co., Ltd. 619,509

SAN DIEGO, Cal.—Until 11 A. M., December 16, bids will be received by the Public Works Office, Eleventh Naval District, San Diego, for replacement of steam mains at the Naval Operating Base (Fuel Depot), San Diego. Specification No. 6332. The work consists of the provisions and installation of approximately 930 feet each of steam service and condensate return lines between an existing boiler plant and an existing fuel oil pump well. The pipe lines, except at road crossings and inside of buildings, are supported approximately two feet above the ground on concrete piers. The work further includes the construction of a concrete manhole, a retaining wall and a valve chamber and cast iron pipe conduits. Bidding data may be obtained from Captain DeWitt C. Webb, Public Works Officer, San Diego, upon deposit of \$10.

ANACAPA ISLAND, Santa Barbara Co., Cal.—Carpenter Bros., Inc., 217 Midway Bldg., 553 Brighton Way, Beverly Hills, awarded contract at \$36,490 by Superintendent of Light-houses, 18 Dist., San Francisco, for excavation, construction of upper and lower landings; concrete stairs to and from landings; reinforced concrete retaining wall at upper landings; construction of permanent and temporary roadways; construction of concrete rainshed complete with piping system; installation of service pipe lines; erection of tank foundations and of two 50,000-gallon redwood tanks and installation of two complete derricks at landing platform, one 5-ton and one 4-ton complete. The two 50,000-gallon redwood tanks and two complete derricks have already been purchased by the government and are now on hand and will be furnished f. o. b. Anacapa Island. The work is to be performed at extreme easterly end of Anacapa Island in the Santa Barbara Channel, off the coast of Southern California, approximately 12 miles southwest of Hueneme.

MONTEREY, Monterey Co., Cal.—Constructing Quartermaster at the Presidio of Monterey will call for bids about December 1 for the construction of a group of one-story, reinforced concrete and frame buildings

at the Presidio of Monterey; estimated cost \$40,000. Captain J. W. Denton, quartermaster.

MARE ISLAND, Calif.—Following bids received by Public Works Officer, Mare Island Navy Yard, for terrazzo flooring in corridors of Building 17-70, Psychopathic Ward, Naval Hospital, Mare Island. Project involves removal of the existing cement topping and laying of white terrazzo floors in the corridors of the 1st and 2nd floors.
Oakland Concrete & Terrazzo Co., 2227 Market St., Oakland \$1,050
P. Grassi, San Francisco 1,120
California Terrazzo & Marble Co., San Francisco 1,146
Henry Gervais Co., S. F. 1,445
Bids held under advisement.

SAN FRANCISCO.—MacDonald and Kahn, Financial Center Bldg., submitted lowest bid to Federal Government to furnish site, erect and lease to the Postoffice Department, a part one- and two-story brick and concrete garage at Main, Beale and Harrison Sts. Plans prepared by Government architects. The structure will cost \$200,000.

MARCH FIELD, Riverside Co., Cal.—Until 11 A. M., December 10, bids will be received by the constructing quartermaster, March Field, for the installation of underground electric connections with necessary transformers, junction boxes, etc., for twelve sets of non-commissioned officers' quarters at March Field, Globe Electric Co., 1889 Mission St., San Francisco, are figuring the plans.

AMERICAN LAKE, Wash.—McKenzie Tile Co., 306 S. 10th St., Tacoma, Washington, at \$5980 awarded contract by Supervising Superintendent of Construction, U. S. Veterans' Hospital, Palo Alto, Cal., to install tile floors, base and wainscoting in Buildings Nos. 2, 3, 4, 5, 6, 7, 16 and 17 at the U. S. Veterans' Hospital at American Lake. This work consists of preparing floors to receive tile and installing non-skid vitreous tile floors and base for bath, showers and toilet rooms in the above buildings, including the wainscoting in rooms 39 and 46 in Building No. 2, and doing all cutting, patching, etc.

MONTEREY, Monterey Co., Cal.—Clinton-Stephenson Const. Co., Monadnock Bldg., San Francisco, at \$11,684 submitted lowest bid to Quartermaster, Presidio of Monterey, for the construction of two stables and the electrical work for four stables at the Presidio of Monterey.

Following is a complete list of bids: Clinton-Stephenson Const. Co., San Francisco \$11,684
electrical work 676
Newman and Halstead, Pacific Grove 11,990
C. H. Hall, Pacific Grove 12,375
Herbert Kohlwe, S. F. 13,762
The Minton Co., Mt. View 13,996
S. H. and W. E. Hook, Monterey 14,118
electrical work 600
John Bjorkman, S. F. 14,447
M. J. Murphy, Carmel 14,350
W. J. Lawrence, Pacific Grove 15,096
electrical work 684
John Taunfer, Monterey 15,591
McCarthy & Johanns, S. F. 15,950
A. P. & C. W. Mattock, S. F. 16,876
Chas. A. Langlais, San Francisco, submitted a bid for electrical work only at \$1,150.
Bids taken under advisement.

PHOENIX, Ariz.—Until December 9, 2 P. M., bids will be received by Jno. B. Brown, superintendent, U. S. Indian Field Service, Phoenix, to furnish and deliver 30,000 bd. ft. 1x10 random lengths No. 1, Common Doug-

lass Fir. Further information obtainable from above.

MARCH FIELD, Riverside Co., Cal.—Until 11:00 A. M., December 10, bids will be received by Col. Gardenhire, constructing quartermaster March Field, for screen windows and doors and window shades for non-commissioned officers' building being completed at March Field. Plans and specification will be on file at the offices of the Southwest Builder & Contractor, 168 S. Hill St., Los Angeles.

VALE, Ore.—See "Harbor Works & Excavations," this issue. Bids wanted by Reclamation Service for earthwork and structures on Vale project.

RED BLUFF, Tehama Co., Cal.—Until Dec. 9, 2 P. M., bids will be received by Supervising Architect, Treasury Department, Washington, D. C., for painting plaster in Red Bluff postoffice. Specifications obtainable from the Custodian at the building in Red Bluff and from the office of the Supervising Architect.

BOULDER CITY—See "Water Works," this issue. Bids wanted by U. S. Reclamation Bureau to furnish and erect two arc-welded or riveted plate steel tanks for water supply.

SACRAMENTO, Cal.—See "Dredging, Harbor Works and Excavations," this issue. Bids wanted by U. S. Engineer Office to construct levee.

OWYHEE DAM, Ore.—See "Water-works," this issue. Bids wanted for needle valves for Owyhee Dam by

Bureau of Reclamation.

SAN FRANCISCO.—Following bids received by Constructing Quartermaster, Fort Mason, to furnish and install water softener at power plant of Letterman General Hospital.

(1) Furnish and deliver water softener equipment.
(2) Furnish and deliver piping;
(3) Job complete.
Herman Lawton Co., 465 Tehama St. (1) \$6307; (2) \$1650; (3) \$7957.
California Filter Co. (1) \$5152; (2) \$998; (3) \$615.
P. L. Burr (3) \$6928.
Crane Co. (1) \$7538.
Lakeside Eng. Corp. (3) \$7710.
Refinite Co. (1) \$8126; (a) \$6800.
International Filter Co. (1) \$9564; (a) \$8302.
Burnham Plumbing Co. (3) \$9000.
Thomas R. Smith (2) \$975.
George Rehn (2) \$1391.

A bid coming by mail from the East is yet to be considered.

SACRAMENTO, Cal.—Healy-Thibbets Const. Co., 64 Pine St., San Francisco, at \$2500 submitted low bid to U. S. Engineer Office, Sacramento, to furnish, deliver and place rip-rap stone along the Sacramento river in the vicinity of Ryde, involving 1000 tons. Other bids: Blake Bros. Co., \$2650; Hutchinson Co., Oakland, \$2650.

SAN FRANCISCO—See "Machinery and Equipment," this issue. Bids wanted by Quartermaster Supply Officer, General Depot, Fort Mason, for one clam shell bucket, 1 yard capacity.

SACRAMENTO, Cal.—Until December 2, 3 P. M., under Circular Proposal No. 31-152, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish, deliver and place rip-rap stone at various places along the Sacramento river, between a point in the vicinity of Isleton and Walnut Grove. Further information obtainable from above.

HOOVER DAM—Complete specifications for the Hoover Dam will be ready early in December, according to an announcement by the Department of Interior. Bids for the construction of the 727-ft. dam, four diversion tunnels, the cofferdams and power plant, will be opened in February.

The first contract to be let will include the 727-ft. dam, the four 50-ft. diversion tunnels, the cofferdams and the power plant (except installation of machinery). The principal items and approximate quantities are:

1,800,000 cu. yds. open cut excav. (all classes);
1,900,000 cu. yds. shaft and tunnel excavation;
1,200,000 cu. yds. earth and rock fill in cofferdams and river channel protection;
4,400,000 cu. yds. concrete;
23,000 cu. ft. of grout;
5,500,000 lbs. reinf. bars (placing);
190,000 yd. placing grout and drainage holes;

1,900,000 lbs. small metal pipe and fittings installed;
32,500,000 lbs. large metal conduits;
10,600,000 lbs. structural steel;
20,000,000 lbs. of gates, hoists, and other metal work.

Specifications covering construction of the government portion of the railway have been forwarded by the Denver office to Washington. This section is about 10.5 miles in length, and will extend from the summit, the end of the Los Angeles & Salt Lake Ry. section, down to the dam site. The principal items and quantities follow:
115,000 cu. yds. common excav.;
354,000 cu. yds. rock excavation;
163,000 cu. yds. unclass. borrow;
802,000 sta. cu. yds. overhaul;
287,000 cu. yds. long haul unclassified borrow "loaded into hauling equipment";
705,000 yd. m. haul and spread "long haul unclass. borrow";

29,000 cu. yds. tunnel excavation;
200,000 ft. b.m. permanent tunnel timbering;

800 cu. yds. struc. excav., common;
1200 cu. yds. struc. excav., rock;
6000 cu. yds. rock fill;
220 cu. yds. concrete;
16,000 lbs. reinf. steel;
2100 cu. yds. rock riprap;
2600 cu. yds. concrete cribwall;
1600 lin. ft. 24-in. corr. pipe;
120 lin. ft. 30-in. do;
180 lin. ft. 36-in. do;
250 lin. ft. 42-in. do;
200 lin. ft. 48-in. do;
600 lin. ft. 60-in. do;
30,000 ft. b.m., of bridges of trestle timbering;

200 lbs. of rail stringers in rail top trestle;

2000 lin. ft. piling;
80 pile point shoes;
22,800 cu. yds. ballasting;
7.0 miles laying track (tie plated);
10 miles laying track (not tie plated);

Specifications for the construction of an 8-mile highway from Boulder City to the Hoover Dam Site have been forwarded to Washington. The principal items are:

113,000 cu. yds. common excavation;
266,000 cu. yds. rock excavation;
40,000 cu. yds. unclass. borrow;
250,000 sta. cu. yds. overhaul;
30,000 cu. yds. tunnel excavation;
30,000 ft. b.m., of tunnel timbering;
1200 cu. yds. of struc. excav., common;

600 cu. yds. struc. excav., rock;
210 cu. yds. backfill;
170 cu. yds. concrete;
8500 lbs. reinf. steel;
2500 cu. yds. riprap;
5000 cu. yds. concrete cribwall;
140 lin. ft. 18-in. corr. metal culvert;
1380 lin. ft. 24-in. do;
720 lin. ft. 36-in. do;
1100 lin. ft. 48-in. do;
970 lin. ft. 60-in. do;
420 lin. ft. 72-in. do;
60,000 ft. b.m., of bridge timbering;
40,000 cu. yds. gravel surfacing placed

80,000 sta. cu. yds. gravel surfacing in stock piles;
8.6 miles of highway treated with oil;
2700 lin. ft. guard rail.

Specifications and plans are now being prepared for work in Boulder City covering water works, sewer system, lighting system; also buildings for Government employees, including an administration building, dormitory, garage, and several residences.

PHOENIX, Ariz.—See "Machinery & Equipment," this issue. Bids wanted for concrete mixer by U. S. Indian Field Service.

MONTREY, Monterey Co., Calif.—George C. DeGolyer, Federal Telegraph Bldg., Oakland, submitted lowest bid to Quartermaster, Presidio of Monterey, for extension of the water system and the construction of the drainage system at the Presidio of Monterey.

Following is a complete list of bids:
(a) Water System; (b) Drainage System.

George C. DeGolyer, Oakland (a) \$1-750; (b) \$3,975.

P. L. Burr, San Francisco, (a) \$1-935; (b) \$3,156.

H. C. Coon, Monterey, (a) \$1,995; (b) \$4,522.

O. D. Richie, San Jose, (a) \$2,029; (b) \$3,315.

M. J. Murphy, Inc., Carmel, (a) \$2-365; (b) \$3,139.

Contract recommended to be awarded to low bidder.

PALO ALTO, Santa Clara Co., Cal.—Until Dec. 9, 10 A. M., bids will be received by Supervising Superintendent of Construction, U. S. Veteran's Hospital, Palo Alto, for furnishing and installing 10 window guard rails for Building No. 205, at the U. S. Veterans' Hospital, Palo Alto.

SAN FRANCISCO—D. N. & E. Walter, 562 Mission St., at \$270.25 submitted lowest bid to Constructing Quartermaster, Fort Mason, to furnish and install window shades in Wards Nos. 5, 22 and 24 at Letterman General Hospital. The only other bid was submitted by A. J. Ruhlman Co. at \$375.54.

Bids held under advisement.

MARCH FIELD, Riverside Co., Cal.—Until Dec. 10, 11 A. M., bids will be received by the constructing quartermaster, March Field, for furnishing and installing window and door screens in twelve sets of non-commissioned officers' quarters at March Field, and for furnishing and installing window shades in same quarters.

RED BLUFF, Tehama Co., Cal.—See "Reservoirs and Dams," this issue. Contract to be awarded for drilling nine test holes for Table Mountain Dam.

HALLS AND SOCIETY BUILDINGS

Low Bidders.
CLUE Cost, \$2,000,000
SAN FRANCISCO. Post and Mason Streets.

Twenty-six-story class A club.
Owner—Olympic Club, premises.

Architect—John Bakewell 11, Arthur Brown, Jr., and John Bauer, associated, 251 Kearny St.

Mechanical Engineers—Leland & Hailey, 58 Sutter St.

Engineer—C. H. Snyder, 251 Kearny.

General Contract—K. E. Parker Co., 135 South Park, \$1,769,000.

Electrical Work—H. S. Tittle Co., 85 Columbia Square, \$153,375.

Steel—Pacific Coast Steel Co., 215 Market St., \$566,625.

Elevators—Otis Elevator Co., 1 Beach St., \$164,430.

Steel frame and concrete construction, brick and terra cotta trim, granite base, marble, hardwood finish, six passenger elevators, two freight elevators, 1 special elevator, elevators for garage, sidewalk elevators, steam heat and oil burning system, tile roofing.

Contract Awarded.
ALTERATIONS Cost, \$32,000

PORTLAND, Oregon. Sixth Street. Alterations and additions to 2-story reinforced concrete building (auditorium and gymnasium).

Owner—Salvation Army.
Architect—Douglas Stone, Gt. Western Power Bldg., Oakland.

Contractor—Chas. W. Ertz Co., Pittock Bldg., Portland.

Preparing Plans—Contract Awarded.
CLUB HOUSE Cost, \$35,000

SAN FRANCISCO. Sloat Blvd. and Mirasol.

One-story frame and stucco clubhouse (30x100-ft.)

Owner—San Francisco Tennis Club. Plans by Thos. E. Connors, 110 Sutter Street.

Contractor—Spivock & Spivock, Hobart Bldg.

Construction will not be started before spring of 1931.

Plans Being Completed.
CLUB HOUSE Cost, \$15,000

STOCKTON, San Joaquin Co., Calif. Park St. bet. Madison and Commerce.

One-story brick club house with tile roof (69x91-ft.)

Owner—Knights of Pythias, Charter Oak Lodge No. 20.

Architect—Victor Galbraith, Elks Bldg., Stockton.

Steam heating plant, concrete and maple floors, steel sash. Bids will be taken in one week.

Sub-Contracts Awarded.
BUILDING Cont. Price, 24,943

SAN JOSE, Santa Clara Co., Cal. W-Santa Clara St.

One and one-half-story steel frame and brick recreation building.

Owner—C. H. Kamm.

Architect—W. H. Weeks, 111 Sutter St., San Francisco; 1736 Franklin St., Oakland, and Bank of Italy Bldg., San Jose.

Lessee—O. J. Forman, San Jose.

Contractor—C. N. Swensen, 355 Stockton St., San Jose.

Reinforcing Steel and Steel Sash—Truscon Steel Co., Call Bldg., San Francisco.

Roofing—W. J. Porter 1473 S San Carlos St., San Jose.

Plumbing and Sheet Metal—H. J. Pascoe, 208 W-Santa Clara St., San Jose.

Structural Steel—R. Heliwig Iron Works, 407 Vine St., San Jose.

Terra cotta—N. Clark & Son, 116 Natoma St., San Francisco.

Glass—Cobbick-Kibbe Co., 666 Howard St., San Francisco.

Mill Work—Sunset Lumber Co., 400 High St., Oakland.

Plastering—Sam Caccamo, 757 W-San Carlos St., San Jose.

Lumber—Pacific Mfg. Co., 58 West Santa Clara St., San Jose.

Painting—C. W. Lynds, 1836 Park Ave., San Jose.

As previously reported, Lamella trussless roof awarded to Trussless Roof Co., 354 Hobart St., Oakland.

The bowing alley in this building, which is 80x120 feet, will be covered with the Lamella network.

Plumbing & Mechanical Bids Wanted.
CLUE Cost, \$2,000,000

SAN FRANCISCO. Post Street and Mason Street.

Twenty-six-story class A club bldg. Owner—Olympic Club, premises.

Architects—John Bakewell, Arthur

Brown, Jr., and John Bauer, associated, 251 Kearny St.
Bids will be received up to Dec. 8, 12 noon, at the Olympic Club. (No action will be taken on the general contract until after the opening of the mechanical and plumbing bids.

Preparing Working Drawings.
RECREATION BLDG. Cost, \$300,000
BLAWLEY Imperial Co., Cal.
Two-story brick recreation building (swimming pool, cafe, miniature golf building, etc.)
Owner—El Verde Recreation Center.
Architect—Harry E. Werner, 357½ N. Beverly Drive, Beverly Hills.

HOSPITALS

Preparing Working Drawings.
SURGERY BLDG. Cost, \$250,000
FRESNO, Fresno Co., Cal.
Three-story reinforced concrete surgery building and two-story reinforced concrete children's ward.
Owner—County of Fresno.
Architect—Swartz & Ryland, Brix Bldg., Fresno.
Bonds have been voted recently.

PHOENIX, Ariz. — Arizona All-States Sanatorium, William C. McClure, president, will erect a general hospital building and a number of cottages on a 40-acre site two miles north of Phoenix. State corporation commission has approved articles of incorporation for the company which is capitalized at \$5,000,000.

Preparing Working Drawings.
HEALTH CENTER Cost, \$800,000
SAN FRANCISCO. Polk and Grove Streets.
Four-story and basement reinforced concrete class A health center, emergency hospital and offices (granite facing).
Owner—City and County of San Francisco.
Architect—S. Heiman, 57 Post St.
The structure will be financed thru the \$3,000,000 bond issued voted for health buildings throughout the city. The present 2-story Emergency Hospital will be used in the construction of the new building and additional property will be purchased for the new structure.

Preparing Working Drawings.
HOSPITAL Cost, \$250,000
COLUSA, Colusa Co., Calif. County Hospital Grounds.
One- and two-story reinforced concrete hospital (1-story wing and 2-story administration building).
Owner—County of Colusa.
Architect—Otto Deichmann, 110 Sutter St., San Francisco.
Only the first unit, having a 24-bed capacity, will be undertaken at this time. The structure, when completed, will have a capacity of 100 beds. Bids will be called for about February, 1931.

CALIFORNIA—Budget requests for improvements at state hospitals and corrective institutions have been prepared by Earl E. Jensen, state director of institutions, as follows:
State narcotic hospital, Spadra, \$277,500; Agnews State mental hospital, \$706,000; Mendocino State mental hospital, \$773,500; Napa State mental hospital, \$623,700; Norwalk State mental hospital, \$462,000; Patton State mental hospital, \$679,500; Stockton State mental hospital, \$39,136; Pacific Colony for feeble minded, \$695,150; Sonoma State home for feeble minded, \$792,948; Preston State School of Industry, \$498,510; Whittier State school for boys, \$420,578; Ventura State school for girls, \$66,640; State industrial home for adult blind, Oakland, \$28,500.

BERKELEY, Alameda Co., Cal.—The Lamson Co., 611 Howard Street, San Francisco, awarded contract by University of California for furnishing and installing pneumatic tube system at the Cowell Memorial Hospital.

Sketches Submitted.
HOSPITAL Cost, \$400,000
SAN FRANCISCO. California St. and Maple St.
Class A fireproof hospital (100 beds; Romanesque style).
Owner—Homeopathic Foundation of California, 391 Sutter St. (Hahemann Hospital).
Architect—Not Given.
Sketches have been submitted by Architects Alfred L. Coffey and Martin Rist, Inghel Bldg. The building will be Y-shaped, with two wings flanking the main building and facing California St. Setbacks on the upper story will provide open air sun terraces and glass protected solariums.
The walls will be faced with buff colored brick.

EUREKA, Humboldt Co., Cal.—Fort Humboldt Post No. 212, American Legion, Eureka, will raise funds to purchase a Drinker respirator to be installed at the Humboldt county hospital.

SAN FRANCISCO — Kelley-Koett Mfg. Co., Inc., 278 Post St., at \$1809 awarded contract by City Purchasing Agent, under Proposal No. 622, to furnish one 140 Kv. P. X-Ray Diagnostic Transformer with rectifier and Control stand including cabinet, Coolidge A. m. i. e. t. (Coolidge Transformer, Coolidge Regulator and Kearsley Stabilizer.

Kelley-Koett Mfg. Co., Inc., at \$4878 awarded contract to furnish one Water-cooled Deep Therapy Installation including: X-Ray Transformer, Rectifier, Control Stand, Water-cooling unit, water cooled X-Ray tube, Kearsley Stabilizer, two milliamperemeters, Coolidge transformer and Coolidge Regulator.

General Electric X-Ray Corp., 450 Sutter St., at \$3514.50 awarded contract to furnish one Shock Proof Unit Proper, that is, oil filled "head" containing oil-immersed right angle X-ray tubes and transformer attached, to be equipped with Cyntron regulators and equipped with fluoroscopic shutters, shutter control and one special compression cylinder; fluoroscopic screen staging; support columns for "head" and fluoroscopic screen staging; floor rails for support columns, to be equipped with remote control stand having built into same 1-52 step auto-transformer calibrated K. V. F. volt-meter, milliammeter voltage regulator vibrating relay vibrator, X-ray time switch equipped with stabilizer for timing from 1/20 second up to and including 20 seconds.

HOTELS

Construction Started.
HOTEL Cost, \$150,000
MANILA, Philippine Islands.
Ten-story steel frame and concrete hotel (90 rooms).
Owner—Kneeder Realty Co., Manila.
Architect—Leonard H. Ford, 1435 Harrison St., Oakland.
Construction is now under way by day's labor.

Plans Being Figured.
HOTEL Cost, \$—
CALEXICO, Imperial Co., Cal.
Three-story and basement frame and stucco hotel (30 rooms, coffee shop patio, etc.)
Owner—Will Conway.

Architect—Merrill & Wilson, Petroleum Securities Bldg., Los Angeles.

POWER PLANTS

VERNON, Los Angeles Co., Cal.—Weeden & Company and American Securities have purchased the \$3,000,000 Vernon Bond issue, proceeds to be used for the construction of a municipal power plant and distribution system.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

Contracts Awarded.
LIBRARY Cost, \$40,000
FAIRFIELD, Solano Co., Cal.
Two-story concrete public library.
Owner—County of Solano.
Architect—W. E. Coffman, Forum Bldg., Sacramento.
Carpentry
Frank Kress, 828 Excelsior Ave. Oakland \$26,417

Plastering
P. Donnelly, 3957 Oakmore Road Oakland \$5,444

Plumbing and Heating
Scott Plumbing & Electric Co., 1909 M St., Sacramento. \$5,436

Electrical Work
Fairfield Battery & Electric Co., Fairfield \$1,347

Glass
W. P. Fuller & Co. 301 Mission St., San Francisco. \$344

Painting
Wilcox & Wilson, Sacto. \$1,697

Tile and Marble
H. P. Fischer Co., 1219 J St., Sacramento \$2,629

Sheet metal and roofing bids held under advisement.

Following is a complete list of bids:
Carpentry
Frank Kress, Oakland. \$26,417
Azevedo & Sarmento, Sacto. 26,660
Geo. Barenich, Vallejo. 26,790
J. F. Fuller, Vallejo. 26,772
Gaubert Bros., Oakland 29,860
Chas. Unger, Sacramento 30,200
N. H. Sjoberg & Son, S. F. 31,486
Geo. J. Maurer, Oakland 32,989

Plastering
P. H. Donnelly, Oakland \$5,444
J. P. Seollan 6,586
Vincent Patta, Oakland 6,695
Herman Bosch, San Francisco 6,880
Azevedo & Sarmento, Sacto. 7,110

Plumbing and Heating
(a) plumbing; (b) heating.
Scott Plumbing & Electric Co., Sacramento, (a) \$7179; (b) \$3926.

W. H. Picard, Oakland (a) \$1729; (b) \$4658.

E. W. Culver (a) \$1750.
Thomas J. Kennedy (b) \$4320.
Geo. C. Pell (b) \$4556.
Carpenter & Mindenhall (b) \$6633.

Electrical Work
Fairfield Battery & Electric Co., Fairfield \$1,347
Collins Elec. Co., Sacramento 1,371
Jack Thoms 1,490
Crockett Electric Co., Crockett 1,532
Scott Plumbing & Electric Co., Sacramento 1,583
Valley Electric Co. 1,695
Dixwell Electric Co. 1,790

Glass and Glazing
W. P. Fuller Co., S. F. \$347
East Bay Glass Co., Oakland 370
Cobbleddick-Kibbe Glass Co., Oakland 371

Painting
Wilcox & Wilson \$1,697
J. F. Ecker 1,921
City Painting Co. 2,486
Vera & Castro 2,900

Tile and Marble
Fischer Tile & Marble Co., Sacramento \$2,629
Malott & Peterson, S. F. 2,739

Sheet Metal
Carpenter & Mindenhall \$496
Monarch Iron Works 523
William Gibson 652

Superior Sheet Metal Works. 767
Ahl Sheet Metal Works. 889
Roofing
Bush Roofing Co., 1912 K St., Sacramento. \$2,241
Fred Hayden. 2,378
Wm. J. Anderson. 2,398
Malott & Peterson, S. F. 2,499
Capital Roofing Co., Sacramento. 2,598
N. Clark & Son, San Francisco. 2,652

Preparing Preliminary Plans.
PASADENA, Los Angeles Co., Cal.—The Pasadena City Board of Directors have adopted revised specifications for the new municipal auditorium and bids will be readvertised for soon. Edwin Bergstrom, 1136 Citizens National Bank Bldg., Los Angeles, and Bennett & Haskell, 311 First Street Bldg., Pasadena, associated architects. Estimated cost, \$1,050,000.

CITY HALL Cost, \$175,000
SAN BERNARDINO, San Bernardino Co., Cal.
Fourteen-story and basement reinforced concrete city hall, 60x100 ft. Owner—Community Underwriters, Inc. Lane Mortgage Bldg., Los Angeles Architect—John M. Cooper Co., Rives Strong Bldg., Los Angeles.

SAN MATEO, San Mateo Co., Cal.—Until Dec. 1, 8 P. M., bids will be received by E. W. Foster, city clerk, for (a) painting exterior of city hall; (b) painting woodwork on the Corporation Yard Building, and (c) painting iron fence at City Park. Certified check 10% required with bid. Specifications on file in office of clerk.

Plans Being Figured—Bids Close Dec. 9, 11 A. M.
REPAIRS Cost, \$—
LOS BANOS, Merced Co., Cal.
Repair and renovate Justice Court Building.
Owner—County of Merced, P. J. Thornton, county clerk, Merced.
Architect—W. E. Bedesen (county surveyor), Shaffer Bldg., Merced.
Certified check 10% payable to the Chairman of the Board of Supervisors required with bid. Plans obtainable from county surveyor on deposit of \$10, returnable.

VENTURA, Calif.—The Southern Prison Co., San Antonio, Texas, has been awarded the contract at \$36,949 by the Ventura county board of supervisors for installing cells in the new courthouse annex. The Union Engineering Co., Huntington Park, is the general contractor. H. E. Burket, 455 E Main St., Ventura, architect.

Plans Being Figured—Bids Close Dec. 2, 10 A. M.
LINOLEUM Cost, \$—
BERKELEY, Alameda Co., Cal. SW
Kittredge and Shattuck Ave.
Cover floors with felt linoleum in main library.
Owner—City of Berkeley, Florence E. Turner, city clerk.
Architect—James W. Placheck, Mercantile Bank Bldg., Berkeley.
Certified check 10% payable to city required with bid. Spec. obtainable from the architect.

LOS ANGELES, Cal.—The Board of City Commissioners has announced that the date for opening bids for the erection of the proposed new municipal auditorium will be postponed to permit changes in the specifications. Bids were scheduled to be opened on November 24 and any bids received prior to that time will be returned unopened. A new date for receiving bids and new advertisement for bids will be issued shortly. Edwin Bergstrom, Los Angeles, and Bennett & Haskell, Pasadena, associated, are the architects.

Contract Awarded.
COURTHOUSE Cost, \$175,797
BISBEE, Arizona
Five-story reinforced concrete and steel frame courthouse and jail with hollow tile partitions.
Owner—County of Cochise.
Architect—Roy Place, 11 E. Pennington St., Tucson, Arizona.
Contractor—Clinton Campbell, Phoenix, Arizona.
Jail Equipment—Southern Prison Co., at \$15,480.

RESIDENCE

Contract Awarded.
RESIDENCE Cost, \$8000
RICHMOND, Contra Costa Co., Cal.
Two-story and basement frame and stucco residence, 8 rooms, 2 baths.
Owners—Miss M. E. Kinnear and Miss G. B. Noble, 620 18th St., Richmond.
Architect—John H. Thomas, Mercantile Bank Bldg., Berkeley.
Contractor—Louis O. Hansson, 1409 Bonita Ave., Berkeley.

Plans Being Completed.
RESIDENCE Cost, \$16,000
SAN JOSE, Santa Clara Co., Cal.
Two-story and basement frame and stucco residence (8 rooms, 3 baths)
Owner—Dr. E. E. Porter, Security Bk. Bldg., San Jose.
Architect—Wolfe & Higgins, Realty Bldg., San Jose.
Bids will be taken in one week.

RESIDENCE Cost, \$—
BURLINGAME, San Mateo Co., Cal.
Walnut and Willow Sts.
Two-story and basement frame and stucco residence.
Owner—Dr. H. Wade Macomber, 1425 Broadway, Burlingame.
Architect—Jas. J. Mitchell, 369 Pine St., San Francisco.

Completing Plans.
RESIDENCE Cost, \$6500
SAN JOSE, Santa Clara Co., Cal.
Center Road.
One and one-half-story frame and stucco residence (5 rooms).
Owner—Mr. Surckard.
Architect—Wolfe & Higgins, Realty Bldg., San Jose.
Bids will be taken in one week.

Contract Awarded.
RESIDENCE Cost, \$6500
SAN LEANDRO, Alameda Co., Calif.
837 Collier St.
One-story and basement frame and

stucco residence with tile roof (6 rooms).
Owner—C. H. Thomas.
Plans by L. H. Cox, 19th and Franklin Sts., Oakland.
Contractor—Nylander Bros., 632 Montclair Ave., Oakland.

Sub-Contracts Awarded.
RESIDENCE Cost, \$39,000
HEALDSBURG, Sonoma Co., Cal.
Two-story brick veneer residence.
Owner—O. W. White.
Architect—E. J. Osborne, Balboa Bldg., San Francisco.

Contractor—Walter Singleton, Petaluma.
Concrete—A. Schlunger, Petaluma.
Plumbing and Heating—Ray Kynock, Petaluma.

Lumber—Stevens Lumber Co., Healdsburg.
Mill Work—Lannom Bros. Mfg. Co., Fifth and Magnolia Sts., Oakland.
Electric Work—Robert Mitchell, Santa Rosa.

Roofing—Alta Roofing Co., 976 Indiana St., San Francisco.
Brick Work—W. Olsen & Son, Petaluma.

Steel Sash—Hauser Window Co., 1370 Harrison St., San Francisco.
Plastering—Robert Starrett, 227 13th St., San Francisco.

Painting—A. B. Connor, Petaluma.
Finish Hardware—Dixon Hardware Co., Santa Rosa.

Insulating—Van Fleet Freear Co., 557 Howard St., San Francisco.
Refrigeration—White Bros., Santa Rosa.

Plans Being Prepared.
BUILDINGS Cost, \$—
TAHOE, Placer Co., Cal.
Group of four one-story rustic buildings (ogg walls, shake roofs).
Owner—Wynn Meredith.
Architect—Sidney B. Noble and Archie T. Newsom, Federal Realty Bldg., Oakland.

There will be a main house to contain 8 rooms, two guest houses (two rooms and baths each), garage building (\$-car garage, laundry, two servants' rooms with two baths).

Contract Awarded.
RESIDENCE Cost, \$12,000
SAN MATEO, San Mateo Co., Calif.
Lot 3 Blk 15, 447 Fairfax.
Two-story and basement frame and stucco residence.
Owner—J. F. Emmet, Russ Bldg., San Francisco.
Architect—Not Given.
Contractor—E. D. Soward, premises.

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RESIDENCE Cost, \$11,000
SAN MATEO, San Mateo Co., Calif.
10 Franklin St.

Two-story and basement frame and stucco residence.

Owner & Builder—Lengfeld & Olund,
145 El Camino Real, San Mateo.

Architect—Not Given.

Sub-Bids Being Taken.

RESIDENCE Cost, \$6500
OAKLAND, Alameda Co., Cal. Fern-
side Terrace.

Two-story frame and stucco residence
(6 rooms).

Owner & Builder—C. L. Reynolds, 1236
First Ave., Oakland.

Plans by L. F. Hyde, 372 Hanover St.,
Oakland.

Specifications Being Written.

ALTERATIONS Cost, \$—
HILLSBOROUGH, San Mateo County,
Cal. 1005 Jacklin Drive.

Alterations and additions to residence.
Owner—John E. Manders, premises.

Architect—Henry H. Gutterston, 526
Powell St., San Francisco.

Bids will be taken in one week.

Owner Taking Bids.

RESIDENCE Cost, \$8500
PALO ALTO, Santa Clara Co., Cal.
Hamilton Ave.

Two-story frame and stucco residence
with tile roof (6 rooms, 2 baths).

Owner—E. H. Heim, 419 University
Ave., Palo Alto.

Plans by E. Reichel, 303 University
Ave., Palo Alto.

Bids Opened.

RESIDENCE Cost, \$40,000
HILLSBOROUGH, San Mateo Co., Cal.
Two-story and basement frame and
brick veneer residence (14 rooms,
5 baths).

Owner—Charles Cherry, 111 Sutter St.,
San Francisco.

Architect—J. K. Ballantine, Jr., 137
Harlan, San Francisco.

Following is a complete list of bids:
D. B. Gladstone, 557 Market St.,
San Francisco

A. H. Feasey, San Francisco..... \$32,400

Henry Post, Palo Alto..... 33,041

Taylor & Jackson, S. F..... 34,395

George Arthur, San Mateo..... 35,850

Bids held under advisement.

IONE, Amador Co., Cal.—The Min-
ton Co., Mt. View, desires sub-bids on
the following portions of the work in
connection with the construction of a
two-story and basement brick and
frame superintendent's cottage, to be
erected at the Preston School of In-
dustry, Ione, for the State of Cal-
ifornia. Plans were prepared by State
Architect George B. McDougall, Pub-
lic Works Bldg., Sacramento. Mason-
ry, structural steel, miscellaneous
iron, reinforcing steel, shingle roofing,
sheet metal, painting, plastering, mar-
ble and tile, glass and glazing and
steel windows. Bids are to be opened
Dec. 2, 2 P. M.

Contract Awarded.

RESIDENCE Cost, \$9000
STOCKTON, San Joaquin Co., Cal.
Magnolia and Argonaut Sts.

One-story frame and stucco residence

Owner—R. L. Quisenberry, 135 E-
Magnolia St., Stockton.

Architect—J. U. Cloudsley, Exchange
Bldg., Stockton.

Contractor—Richard Noall, 923 N.
Lincoln St., Stockton.

Sub-Bids Wanted.

RESIDENCE Cost, \$5000
BERKELEY, Alameda Co., Cal. 611
Euclid Avenue.

One-story and basement frame and
stucco residence (5 rooms; Span-
ish type).

Owner and Builder—J. M. Walker, 1709
Grove St., Berkeley.

Plans by Owner.

Sub-bids wanted on plumbing, brick
work, plastering, electrical wiring,
hand made tile roof, glazing of steel
sash, hardwood floors.

SCHOOLS

SAN RAFAEL, Marin Co., Cal.—H.
Schulte & Sons, 49 Rogers St., San
Francisco, at \$1,405 awarded contract
by Architect Arnold Constable, 580
Market St., San Francisco, for furn-
ishing tables and cases in the com-
munity room at the Dominican Con-
vent, San Rafael.

Plans Being Figured—Bids Close Dec.

10, 11 A. M.
MEMORIAL BLDG. Cost, \$250,000
BERKELEY, Alameda Co., Cal. Cam-
pus of University of California.

Two-story Class A concrete Esheleman
Memorial Bldg. (Student publish-
ing building).

Owner—Regents of the University of
California, Berkeley

Architect—G. W. Kelham, 315 Mont-
gomery St., San Francisco

General construction, heating, venti-
lating, plumbing and electrical plans
will be available on December 2

General construction plans available
from Cashier's window, California
Hall, University of California, on de-
posit of \$250, returnable.

Plans To Be Prepared.

SCHOOL Cost, \$200,000
SAN FRANCISCO, Connecticut St.,
Bet. Nineteenth and Twentieth.

Grammar school.

Owner—City and County of San Fran-
cisco.

Architect—Not Selected.

Plans Being Completed.

SCHOOL Cost, \$650,000
SANTA BARBARA, Cal.

Two-story reinforced concrete school
building (terra cotta, tile roof).

Owner—Santa Barbara Union High
School District.

Architect—W. H. Weeks, 111 Sutter
St., San Francisco.

Bids will be taken in one week.
There will be an administration and
classroom building, gymnasium and a
shop building; reinforced concrete
construction with terra cotta tile
roofing.

Plans Being Prepared.

SCHOOL Cost, \$75,000
PASADENA, Los Angeles Co., Cal.
Lake Ave. and Maple Street.

Reinforced concrete Sunday school
building.

Owner—Lake Avenue Congregational
Church (Rev. James Henry Hut-
chins, Pastor).

Architect—Marston & Maybury, 25 S.
Euclid Ave., Pasadena.

Bids Opened.

ADDITION Cost, \$25,000
RICHMOND, Contra Costa Co., Cal.
41st St bet. Roosevelt and Clin-
ton Ave.

Six-room addition to Woodrow Wilson
School (brick construction, slate
roof).

Owner—Richmond School District, W
T Helms, clerk.

Architect—J. T. Narbett, 466 31st St.,
Richmond.

Mechanical Engineers—Leland & Ha-
side, 53 Sutter St., San Francisco.

Following is a complete list of bids:

General Work

J. S. Hannah, 268 Market St.,
San Francisco

P. M. Sanford, Richmond

Chas. Vezev & Son, Oakland

Tandy & Tice, Richmond

Carl Overaa, Richmond

Fred. Hoskins, Richmond

George Maurer, Oakland..... 30,655

Heating

Geo. Schuster, 4712 Grove Street,
Oakland

W. H. Picard, Oakland

George C. Bell

Bids held under advisement.

VISALIA, Tulare Co., Cal.—Visalia
Board of Education has been pre-
sented with a plan for the erection of
an athletic stadium on the grounds of
the Visalia High School.

PITTSBURG, Contra Costa Co., Cal.

—C. F. Weber Co., 650 2nd St., San
Francisco, at \$637, submitted lowest
bid to Pittsburg School District, to
furnish and install Venetian blinds in
Pittsburg Junior High School.

Following is a complete list of bids:

C. F. Weber Co., S. F..... \$637

Western Venetian Blind Co., S. F. 638

F. E. Turner Co., Stockton..... 647

H. S. Crocker Co., S. F..... 680

(Venetian Blinds and Opaque Shades,
combined bid)

McFaul Furniture Co., Pittsburg \$550

Dahl Thomas Co., Oakland (Ve-
netian blinds)

933

169

Bids held under advisement until
Nov. 28th.

Commissioned To Prepare Plans.

SCHOOL BLDGS Approx. \$300,000
OAKLAND, Alameda Co., Cal. Pied-
mont Highlands.

Group of reinforced concrete high
school buildings (academic build-
ing, auditorium and gymnasium)

Owner—Roman Catholic Archbishop of
San Francisco, 1100 Franklin St.,
San Francisco.

Architect—H. A. Minton Bank of
Italy Bldg., Eddy and Powell Sts.,
San Francisco.

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Sister of The Holy Name.

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Bids Opened.
SCHOOL Cost, \$70,000
CALISTOGA, Napa Co., Cal.
 One-story class C brick school (eight classrooms, assembly room, and shop).

Owner—California Grammar School District.

Architect—Davis-Pearce Company Inc., Builders' Bldg., Stockton.
 Tile roof, oil burning system, etc.

Following is a complete list of bids:

General Work

H. H. Henning, 1751 Berkeley Ave., Stockton.....	\$47,978
J. J. Groden & Co., Alameda.....	48,250
Frank H. Kress, Oakland.....	48,785
Farrell Nelson, Oakland.....	48,980
Fred H. Betz, Sacramento.....	49,490
David Arsenal.....	49,718
Gaubert Bros., Oakland.....	49,890
Frank Lamb, Vallejo.....	49,928
Wallace Snellgrove, Richmond.....	49,939
J. S. Hannah, San Francisco.....	49,999
Azevedo & Sarmiento, Sacto.....	50,260
Magnussen & Peterson, ".....	50,428
Mathews Const. Co., Sacto.....	50,800
Minton Co., Palo Alto.....	50,829
Lyner & Allen.....	51,300
Pilgrite Const. Co.....	51,592
E. K. Nelson Bldg. Co., S. F.....	52,675
Fred E. Taylor.....	52,596
E. T. Leiter & Sons.....	52,880
Grant L. Miner, Jr.....	55,374
Geo. D. Maurer, Oakland.....	55,799
D. Rossini.....	53,235
Sam Eyre, Sacramento.....	53,520
Chas. F. Unger, Sacramento.....	53,621
C. J. Hopkinson, Sacramento.....	54,436

Plumbing and Heating

(a) plumbing; (b) heating. Ukiah Plumbing & Heating Co. (a) \$1920; (b) \$6621.55. Thomas J. Kennedy, (a) \$...; (b) \$6400. M. R. Carpenter, (a) \$2176; (b) \$6,- 875. Howard E. Sawls, (a) \$2190; (b) \$6,- 220. H. W. Picard, (a) \$2301; (b) \$6934. Geo. A. Schuster (a) \$2436; (b) \$6,- 696. Scott Plumbing & Electric Co., (a) \$2787; (b) \$7365. Geo. C. Bell, (b) \$6980. Pacific Heating & Ventilating Co., (a) \$7175. O. W. Erickson (a) \$2808; (b) \$7,- 987. Miller Hayes Co. (a) \$2824; (b) \$6,- 363. J. A. Fazio, (a) \$2150. Scott Co., San Francisco, (a) \$2440. Woodland Plumbing Co., Woodland, (a) \$2236; (b) \$6717.
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Electrical Work

Con Franke, 748 E Weber St., Stockton.....	\$3031
Eddy Electric Company.....	3468
George Wolfe.....	3704
T. L. Rosenberg.....	3974
L. A. Drake.....	3986
F. Stalling.....	4218
H. L. Cummings.....	4304
Collins Electric Co.....	6742

Bids held under advisement.

Plans Completed.
AUDITORIUM Cost, \$175,000
LOS ANGELES, Cal. No. 1340 West-
 gate Avenue.

Two-story Class A reinforced concrete brick school auditorium (98x 190 feet).

Owner—Los Angeles City School Dist.
 Architect—Architectural Division of
 Los Angeles Board of Education.
 Building permit has been applied for

Contract Awarded.
AUDITORIUM Cost, \$128,800
PASADENA, Los Angeles Co., Cal.
 John Muir Technical School.
 Reinforced concrete high school auditorium (120x180 ft.) to seat 1200.
 Owner—Pasadena City School Dist.
 Architect—Bennett & Haskell, First
 Trust Bldg., Pasadena.
 Contractor—J. S. Metzger & Son, 332
 W. Jefferson St., Los Angeles.

Heating—Jones Heating Co., Pasadena, at \$16,396.

Plumbing—Thos. Haverly Co., Pasadena, at \$5212.

Electric Wiring—R. R. Jones Elec. Co., Pasadena, at \$12,349.

PITTSBURG, Contra Costa Co., Cal.
 Van Fleet Frear Co., 557 Howard St., San Francisco, at \$1,786 submitted lowest bid to Pittsburgh School District to furnish and lay linoleum in the corridors and library of the junior high school.

Following is a complete list of bids:	
Van Fleet Frear Co., S. F.....	1,786
W. J. Sloane & Co., S. F.....	1,833
Anderson Carpet House, Oakland.....	2,009
Dahl Thomas Co., Oakland.....	2,045
Commercial Carpet Laying and Linoleum Co., S. F.....	2,079
Higgins Lbr. Co., Oakland.....	2,117
Conklin Bros., San Francisco.....	2,145
McLane Hardwood Floor Co., Stockton.....	2,150
McFaul Furniture Co., Pittsburg.....	2,338
Davi Furniture Co., Pittsburg.....	2,440
Lanzafame & Summer, ".....	2,781

Bids held under advisement until Nov. 28th.

Sub-Contracts Awarded.
BUILDINGS Cont. Price, \$465,616

BERKELEY, Alameda Co., Cal. University of California Campus.

Group of three Class B steel frame and concrete buildings (College of Engineering).

Owner—University of California.
 Architect—G. W. Kelham, 315 Montgomery St., San Francisco.
 Engineer—H. J. Brunner, Sharon Bldg., San Francisco.

Contractor—Barrett & Hilp, 918 Harrison St., San Francisco.
Painting—J. A. Mohr, 433 11th St., San Francisco.

Sheet Metal—Forrester Cornice Wks., 269 Potrero Ave., San Francisco.

Reinforcing Steel—Pacific Coast Engineering Co., foot of 14th St., Oakland.

As previously reported, grading awarded to Ariss Knapp Co., 961 41st St., Oakland; structural steel to Pacific Coast Engineering Co., foot 14th St., Oakland; mechanical work to The Turner Co., 329 Tehama St., S. F.; at \$56,355; electrical work to NePage McKenny Co., 128 10th St., Oakland, at \$19,704.

Will be one, three and four stories in height.

Preparing Working Drawings.

EDUCATIONAL UNIT Cost, \$15,000
PORTERVILLE, Tulare Co., Cal.

Two-story and basement frame and stucco educational unit, etc.

Owner—Porterville Methodist Church.
 Architect—Rollin S. Tuttle, Box C, Los Gatos.

Work comprises new educational unit in connection with the church plant in addition to remodeling the church proper. The educational unit is to contain 18 classrooms for junior and senior departments with facilities for about 750 pupils. Clark Standiford, 212 E-Putnam Ave., Porterville, is chairman of the Building and Finance Committee.

Bids will be taken about Jan. 2, 1931

Bids Rejected.
ADDITION Cost, \$—

VINELAND, Kern Co., Cal.
 School addition.
 Owner—Vineland School District, A. J. Fowler, Clerk.

Architect—Clinton Nourse, 617 West Montecito St., Sierra Madre.

New bids will be called immediately

LONG BEACH, Los Angeles Co., Cal.—The Long Beach Board of Education voted to exercise an option on

eight lots at the corner of Willow St. and Pine Ave., Long Beach. A new \$150,000 structure to replace the John Dewey Vocational School will probably be the first unit constructed on the site.

Plans Being Figured—Bids Close Dec. 4, 1930 P. M.

RENOVATIONS Cost, \$—
MONTEREY, Monterey Co., Cal.

Renovate, tear out, remodel, alter and refinish Administration Department and change and build stairway in Science Department and install program clock system.

Owner—Monterey Union High School District.

Architect—Swartz & Ryland, 206 Spazier Bldg., Monterey.

Certified check 10% required with bid. Plans obtainable from the architects on deposit of \$10, returnable.

Low Bidder.

SAN FRANCISCO—Michel & Pfeffer Iron Works, Harrison and Tenth Sts., awarded contract by city purchasing agent, under Proposal No. 654, to furnish and install basketball, tennis and volley ball courts for the School Department, as follows:

Balboa High School, 4 pair Basketball Backstops; 5 pair Tennis Posts; 2 pair Volley Ball Posts. Lines for these courts to be included in price. \$913.30.

Presidio Junior High School: 2 pair Tennis Posts; parallel to 29th Ave.; 1 pair Volley Ball Posts; parallel to present basketball court. Lines for these courts to be included in price. \$122.65.

Commodore Sloat School: 1 pair Tennis Posts; 1 pair Volley Ball Posts. \$62.55.

E. P. Finigan, 575 Mission St., awarded contract under Proposal No. 654, for:

Dudley Stone School, 1 Basketball Backstop in lower west yard, \$37.

Visitation Valley School: 1 pair Basketball Backstops; remove old wooden backstops.

Winfield Scott School: 1 pair Tennis Posts. \$35.

NOTE: Sockets to be fabricated of 2½-inch inside diameter pipe with a cast ring and cover.

SANTA CRUZ, Santa Cruz Co., Cal. Until Dec. 9, bids will be received by C. R. Holbrook, Board of Education, for the sale and removal of the old Laurel St. School Building in Laurel St. bet. Center and Washington Sts.; also the Leonard Building on the Bay View School site at Bay and Mission Sts. Spec. obtainable from secretary.

FRESNO, Fresno Co., Cal.—Board of Education contemplates installation of an adequate heating system in the Lincoln School. The present system is said to be "overworked" and recently caused a fire in the structure.

MERCED, Merced Co., Cal.—County supervisors contemplate erection of a school building on the county hospital grounds for children housed in the institution. The plans will probably be prepared by W. E. Bedesen, engineer, Shaffer Bldg., Merced.

Contract Awarded.
ENTRANCE Cont. price, \$1154

SAN FRANCISCO.
 Construct iron and glass entrance at west side of Grant school.

Owner—City and County of San Francisco, S. J. Hester, secretary, Bd. of Public Works.

Architect—Bureau of Architecture (C. H. Sawyer, chief), 2nd floor, City Hall.

Contractor—D. H. Clancy.

PERKELEY, Alameda Co., Cal.—J. L. Davidson Co., Newhall Bldg., San Francisco, at \$8616 awarded contract by Regents of the University of California for furnishing and installing book stacks in the Life Science Bldg., Berkeley, for the University of California.

Award was previously made to C. J. Hillard, Inc., at \$7093.

Bids Opened.
SCHOOL. Cost, \$15,000
JAMES OWEN, Tuolumne Co., Cal.
One-story class C concrete grammar school (3 classrooms).

Owner—
Architect—Davis-Pearce Co., Grant & Weber Sts., Stockton.

Following is a complete list of bids:
Swanson & Chance, Turlock.....\$14,849
T. E. Williamson, Stockton.....15,300
Ecker & Stedman, Stockton.....15,600
George Roek, Stockton.....15,670
M. F. Varozza, Modesto.....16,000
D. R. Hanly,16,115
John Hackman, Stockton.....16,200
L. Uebels, Ripon.....16,510
John Cavanaugh, Stockton.....16,703
Neil & Wierner, Turlock.....16,935
M. O. Ward, Modesto.....17,100
Harry Whitt, Colama.....17,990
Bids held under advisement.

Plans Being Prepared.
ADDITION. Cost, \$100,000
PASADENA, Los Angeles Co., Cal.
Rose Villa Street.
Brick and hollow tile addition to school (7 classrooms, auditorium, cafeteria, etc.)
Owner—Pasadena City School District
Architect—Bennett & Haskell, First Trust Bldg., Pasadena.

Preparing Preliminary Sketches.
CONVENT. Cost approx. \$300,000
OAKLAND, Alameda Co., Cal.
Two- and three-story reinforced concrete convent, etc.
Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.
Architect—H. A. Minton, 1 Powell St., San Francisco.

Plans Being Prepared.
SCHOOL. Cost, \$100,000
ALHAMBRA, Los Angeles Co., Cal.
Commonwealth Ave near Meridian
Two-story concrete and brick school (8 classrooms, library, etc.)
Owner—Alhambra City School District
Architect—Richard C. Farrell, 11 S. Second St., Alhambra.

BANKS, STORES & OFFICES

Plans Being Completed.
ADDITION. Cost, \$25,000
SAN FRANCISCO. 468 Turk St.
One-story concrete addition to building.
Owner—Bell Bros., Mills Bldg.
Architect—O'Brien Bros. and W. D. Pugh, 315 Montgomery St.
Lessee—Hoover Sweeper Company, 626 Golden Gate Ave.
Plans will be completed within one week.

Plans Being Figured.
BANK BLDG. Cost, \$100,000
CHICO, Butte Co., Cal. Broadway and Second Sts. (95x31 feet).
One-story reinforced concrete bank (steel trusses, marble work, etc.)
Owner—Bank of Italy.
Architect—H. A. Minton, Bank of Italy Bldg., San Francisco.

There will be a space of 21 ft. between the ceiling and the floor and the general interior will be of marble and acoustical plaster, with low type screens of bronze. The general construction will be of concrete, with steel trusses instead of pillars to support the roof.

Bids Opened.
STORES. Cost, \$—
SAN JOSE, Santa Clara Co., Cal. 7th and Julian Sts.
Two-story reinforced concrete stores and lodge building.
Owner—Modern Order of Bucks (colored organization).
Architect—Charles McKenzie, Twohy Bldg., San Jose.

Following is a complete list of bids:
M. W. Reese, 1210 Minnesota St., San Jose.....\$ 8,973
Wm. Meyer, San Jose.....9,480
B. J. Smith, San Jose.....9,500
R. O. Summers, San Jose.....9,728
Wm. Caldwell, San Jose.....9,956
H. Bolwin, San Jose.....9,968
Merna & Newell, San Jose.....10,000
I. V. Brown, San Jose.....10,326
C. N. Swensen, San Jose.....11,285
Plumbing and sheet metal contracts awarded to Theo. Moss, 1163 Magnolia, San Jose.

General contract bids held under advisement for a few days.

Bids To Be Taken In About Two Weeks.
OFFICES. Cost, \$60,000
WATSONVILLE, Santa Cruz Co., Cal. Main St. N Fifth St.
One and two-story offices with the roof (reinforced concrete construction with cement plaster; 91x236 feet).
Owner—Coast Counties Gas & Electric Co., N. E. Paulsen, manager, Watsonville.
Architect—Albert F. Roller, First National Bank Bldg., San Francisco.

Plans Completed.
SCIENCE BLDG. Cost, \$—
SANTA ROSA, Sonoma Co., Cal. Ursuline College.
Two-story frame and stucco science building.
Owner—Ursuline College, Santa Rosa
Plans prepared by the Sisters of the College.
Bids will be called for at a later date.

Contracts Awarded.
ALTERATIONS. Cost, \$—
SAN FRANCISCO. Montgomery and Market Sts.
Interior alterations to bank and install safe deposit.
Owner—Wells Fargo Bank, Premises.
Engineer—T. Ronneberg, Crocker Bldg., San Francisco.
Contractor—MacDonald & Kahn, Financial Center Bldg., S. F.
Safe Deposit—Herring Hall, Marvin Safe Co., 215 California St., San Francisco.

Bids To Be Taken In One Week.
ALTERATIONS. Cost, \$25,000
SACRAMENTO, Sacramento Co., Cal. Ninth St. near K St.
Alterations and additions to one-story and basement brick store and bank.
Owner—Peoples Finance & Thrift Co., 1005 8th St., Sacramento.
Architect—Charles Dean, California State Life Bldg., Sacramento.

Contract Awarded.
MARKET. Cost, \$100,000
LOS ANGELES, Cal. NE Beverly Blvd. and basement Class A reinforced concrete and steel market and garage (176x123 feet).
Owner—Gore Bros., Film Exchange Bldg., Los Angeles.
Architect—Balch & Stanbery, Film Exchange Bldg., Los Angeles.
Contractor—A. V. Perkinson Co., Inc., 3977 S. Vermont Ave., Los Angeles

Contract Awarded
DWELLING. Cost, \$17500
SAN FRANCISCO. NW Mission and Geneva Sts.
One-story and basement frame and stucco store and dwelling
Owner—M. Elerovich, 1144 York St.
Architect—Not Given.
Contractor—F. Amatore, 1392A Hampshire Street.

Plans Being Prepared
REMODELING. Cost, \$—
WATSONVILLE, Santa Cruz Co., Cal. 213 Main St.
Remodel garage for auto salesrooms.
Owner—B. H. Kirkmon, 37 Sudden, Watsonville.
Architect—A. W. Story, Pajaro Valley Bank Bldg., Watsonville.
Structure will be remodeled to conform to the Spanish type of architecture with rough stucco front and tile roof, concrete floor. Neon sign will be installed.

Additional Sub-Contracts Awarded
STORE. Cost, \$50,000
SAN FRANCISCO. 2718 Mission St.
Three-story concrete store.
Owner—S. H. Kress Co., 621 S Broadway, Los Angeles.
Plans by Eng. Dept. of Owner.
Contractor—K. E. Parker Co., 135 So. Park.

Heating—James A. Nelson, Inc., 10th and Howard Sts.
Fixtures—Home Mfg. Co., 552 Brannan Street.

As previously reported, brick work awarded to Geo. Barton, 4338 Balboa St.; plumbing to W. E. Trousdale, 422 Turk St.; electric work to Langlais Electric Co., 472 Tehama St.; mill work to Sunset Lumber Co., 400 High St., Oakland; lumber to J. H. McCullum, 748 Bryant St.; steel to Pacific Coast Steel Co., 215 Market St.; plastering to John Eshia, Russ Bldg.; painting to D. Burgess, Richmond; excavating to Sibley Grading & Teaming Co., 165 Landers St.; terra cotta to Gladding, McBean & Co., 660 Market St.; structural steel to McClinton-Marshall Co., 2050 Bryant St.

Plans Complete.
STORES. Cost approx. \$75,000
OAKLAND, Alameda Co., Cal. SW 19th and Broadway.
Group of one-story steel frame and terra cotta shops and stores.
Owner—Twentieth & Broadway Realty Co., Oakland.
Architect—A. J. Evers, 525 Market St. San Francisco.
Bids will not be called for immediately.

BERKELEY, Alameda Co., Calif.—Symon Bros. Wrecking Co., 1435 Market Street, awarded contract by the University of California, for wrecking the Economics Building, Berkeley.

Preparing Working Drawings.
ALTERATIONS. Cost, \$—
SAN FRANCISCO. 209-229 Golden Gate Avenue.
Alterations to building for offices, etc.
Owner—Warner Brothers, 243 Golden Gate Avenue.
Architect—G. Albert Lansburgh, 140 Montgomery St.

Plans Being Completed.
BANK. Cost, \$—
MONTEREY, Monterey Co., Cal. Location not selected.
One-story and mezzanine steel frame and concrete bank
Owner—Monterey County Trust & Savings Bank.
Architect—H. H. Winner Co., 580 Market St., San Francisco
Bids will be taken in about two weeks.

Sub-Contracts Awarded.

STORES Cost, \$6000
SOUTH SAN FRANCISCO, San Mateo Co., Cal. Fourth Lane and Linden Ave.

One-story reinforced concrete store (two stores)

Owner—Andrew Hyndling, 219 Linden St., South San Francisco.

Architect—Not Given.

Contractor—Mutual Constr. Co. (J. L. Snyder), 571 Geary St., San Francisco

Plastering—H. Rodgers, 181 Martin St., San Bruno.

Reinforcing Steel—Concrete Engineering Co., 1280 Indiana St., San Francisco.

Steel Sash—Soule Steel Co., Rialto Bldg., San Francisco.

Glass—Crown Glass Co., 675 Golden Gate Ave., San Francisco.

Painting—Raphael Co., 270 Tehama St., San Francisco.

Plumbing—S. Minetti, 250 Maple St., South San Francisco.

Plans Completed. Cost, \$30,000

STORE
PITTSBURG, Contra Costa Co., Cal. E-4th St. bet. Black Diamond and Fourth Sts.

One-story tile store.
 Owner and Builder—K. E. Parker Co., 135 South Park, San Francisco.

Plans by Owner.

Sub-bids will be taken shortly.

Contract Awarded. Cost, \$10,000

ALTERATIONS
OAKLAND, Alameda Co., Calif. SE 12th and Harrison Sts.

Alterations to building.

Owner—The King Estate.

Architect—Not Given.

Contractor—George Swanson, 1723 Webster St., Oakland.

Construction Started. Cost, \$10,000

STORES
SALINAS, Monterey Co., Cal. Monterey Street.

One-story concrete stores (stucco exterior, tile roof, 60x180 ft.)

Owner—S. M. Baker, 138 Monterey St., Salinas.

Architect—Swartz & Ryland, Spazier Bldg., Monterey; 373 Main St., Salinas, and Brix Bldg., Fresno.

Contractor—Fred McCrary, 506 Fremont St., Monterey.

Lessee—Graham Paige Automobile Agency.

THEATRES

Sub-Contracts Awarded. Cost, \$250,000

THEATRE
SAN FRANCISCO, Ocean Avenue bet. Fairfield and Lakewood.

Class A steel frame and reinforced concrete theatre and (6-8) stores; theatre seating 1800.

Owner—Samuel Levin.

Architect—Miller & Pfeiffer, 580 Market Street.

Contractor—H. L. Peterson, 731 Treat Avenue.

Tile and Composition Roofing—Malott & Peterson, 2221 20th St.

Sheet Metal—Aetna Sheet Metal Wks., Glass, Glazing & Copper Window Bar.

—Progress Glass Co., 1622 Polson Street.

Miscellaneous and Ornamental Iron and Steel Sash—Michel & Pfeiffer Iron Works, Harrison and 10th.

Mill Work—Sunset Lumber Co., 400 High St., Oakland.

Plumbing—Wm. J. Forster Co., 355 Fourth Street.

Reinforcing Steel, Wire Mesh & Joist Pans—Concrete Engineering Co., 1280 Indiana St.

Excavating and Grading—Sibley Grading & Teaming Co., 165 Landers.

Lumber—Christensen Lumber Co., 5th and Hooper Sts.

Ready-mix Concrete—Golden Gate At-

las Materials Co., 16th and Harrison Sts.

As previously reported, structural steel awarded to Golden Gate Iron Works, 1541 Howard Street; heating ventilating and electrical bids are held under advisement.

Structure will have a seating capacity of 1800 and contain six or eight stores. It will have a frontage of 182 feet on Ocean Avenue.

Contract Awarded. Cost, \$70,000

ALTERATIONS
SAN FRANCISCO, 745 Clement St.

Alterations to theatre.
 Owner—Coliseum Theatre, 745 Clement Street.

Architect—S. Charles Lee, 2404 W 7th St., Los Angeles.

Contractor—Salih Bros., 25 Taylor St. Work has just been started.

Plans Being Figured. Cost, \$300,000

THEATRE
PHOENIX, Arizona. First and Washington Sts.

Two-story Class A reinforced concrete theatre (150x200 ft.) to seat 1700.

Owner—Fox West Coast Theatres.

Architect—S. Charles Lee, 2404 W Seventh St., Los Angeles.

WHARVES AND DOCKS

OAKLAND, Alameda Co., Calif.—Warden & Forsythe, 264 Syble Ave., San Leandro, \$6,315 submitted the only bid to City Port Commission, 424 Oakland Bank Bldg., for laying railroad tracks east of the 348-ft. extension to 14th St. Wharf, Outer Harbor Terminal.

Bids held under advisement.

LONG BEACH, Cal.—Until 10 A. M. Dec. 4, bids will be received by the city manager, for the furnishing of all labor and material, except as otherwise specified to be furnished by the City of Long Beach, the furnishing of all plant and appliances and the construction of a creosoted timber wharf and stone berm at Berths Nos. 1, 2, 3, and 12, dredging and filling, Outer Harbor, Long Beach, in accordance with Special Spec. H. D. 52, and the drawings referred to therein, on file in the office of the Chief Engineer in the Harbor Dept.

The contractor, for Lot No. 7 will be required to commence work under his contract, within 10 days after date of award of the contract and to complete the work within 120 calendar days after the date of delivery to him of the first shipment of creosoted material specified in paragraph 44 of Special Spec. H. D. 52.

The contractor on Lot No. 2 will be required to commence work under his contract within 20 days after having been notified so to do by said Chief Engineer in the Harbor Department, and to complete the work within 120 calendar days thereafter. Cert. check or bond, 10%. C. C. Lewis, city manager.

MISCELLANEOUS CONSTRUCTION

Contract Awarded. Cost, \$5000

ALTERATIONS
SAN FRANCISCO, NE 15th and Polson Streets.

Alterations and additions to sand bins.
 Owner—Illinois Pacific Coast Glass Co., 15th and Polson Sts.

Plans by Stephens Adamson Co., Los Angeles.

Contractor—D. Coleman, care owner.

SANTA BARBARA, Cal.—Santa Barbara Telephone Co., Robert Easton, president, has made application to the California Railroad Commission for permission to issue \$500,000 in securities at once for development of the telephone system in Santa Barbara

County. Major improvements contemplated include a new telephone building for Montecito, a new telephone building in the Santa Ynez valley, underground cables between Santa Barbara and Montecito, dial telephone equipment, etc.

Plumbing and Steel Sash Contracts Awarded.

GRANDSTAND, ETC. Cost, \$1,250,000
SAN FRANCISCO, Fifteenth St. and Potrero Ave.

Baseball park, Class A steel and concrete grandstand, 1000 ft. long.

Owner—San Francisco Baseball Club, 15th and Valencia Sts., S. F.

Engineer—H. J. Brunner, Sharon Bldg., San Francisco.

Contractor—Lindgren & Swinerton, Inc., 225 Bush St., San Francisco.

Plumbing—Wm. J. Forster Co., 355 Fourth St., San Francisco.

Steel Sash—Tyre Bros., 666 Townsend St., San Francisco.

As previously reported, reinforcing steel awarded to Pacific Coast Steel Corp., 215 Market St., S. F.; lumber to Christensen Lumber Co., 5th and Hooper Sts., S. F.; lawn sprinkler system to The Turner Co., 329 Tehama St., S. F.; excavation to Sibley Grading & Teaming Co., 165 Landers St., San Francisco.

Additional Sub-Contracts Awarded. Cost, \$20,000

KITCHEN
SAN FRANCISCO, Clara and Ritch Streets.

One-story reinforced concrete kitchen building with steel trusses.

Owner—H. G. Clifford, 918 Harrison.

Architect—E. A. Eames, 353 Sacramento St.

Contractor—Barrett & Hulp, 918 Harrison Street.

Sheet Metal—Morrison & Co., 74 DuBoce Avenue.

Mill Work—Anderson Bros. Planing Mill, Quint and Custer Sts.

As previously reported, lumber contract awarded to Christensen Lumber Co., 5th and Hopper Sts.; concrete to Readymix Concrete Co., 575 Berry St.; electrical work to Victor Lemoie, 281 Natoma St.; steel sash to Michel and Pfeiffer Iron Works, Harrison and 10th Sts.; structural steel to Dyer Brothers Iron Works, 17th and Kansas Sts.

PLACER COUNTY, Cal.—Until Dec. 8, 2 P. M., bids will be received by State Highway Commission, 502 State Office Bldg., Sacramento, to move meeting hall to new location in Placer County, ¼ mile west of Newcastle, (III-Pla-17-B).

Preparing Working Drawings. Cost, \$500,000

ADDITION
COMPTON, Los Angeles Co., Cal. East Main Street.

Two-story reinforced concrete addition to mausoleum (21x61 feet) (4000 crypts) stone or terrazzo trim.

Owner—Angelus Abbey Mausoleum, E-Main St., Compton.

Architect—Clarence N. Aldrich, Pacific Southwest Bank Bldg., Long Beach.

OAKLAND, Alameda Co., Calif.—San Leandro Rock Co., 1275 Foothill Blvd., San Leandro, at \$4,500 awarded contract by City Port Commission to furnish 5000 tons quarry waste crushed rock for drainage structures.

MISCELLANEOUS SUPPLIES AND MATERIALS

SAN FRANCISCO—Until Dec. 1, 10 A. M., bids will be received by Constructing Quartermaster, Fort Mason (928-31-133) to furnish miscellaneous supplies. Further information obtainable from above.

Engineering News Section

BRIDGES

BAKERSFIELD, Kern Co., Calif.—As previously reported, Currie & Dulgur, Kern County Land Bldg., Bakersfield, at \$8,951.40 awarded contract by county supervisors to construct reinforced concrete, 3-compartment box culvert on the Bakersfield-Taft Highway, involving:

- (1) 600 cu. yds. excav.;
 - (2) 1100 cu. yds. embank. in place;
 - (3) 1600 ft. E. M. sheathing;
 - (4) 213 cu. yds. concrete;
 - (5) 36,700 lbs. reinf. steel;
 - (6) Shoring of present bridge.
- Unit bids follow:
- Currie & Dulgur (1) \$1.64; (2) 85c;
 - (3) 16c; (4) \$16; (5) 4.2c; (6) \$227;
- total \$8951.40.
- G. A. Graham, (4) \$2; (2) 50c; (3) 25c; (4) \$16; (5) 4½c; (6) \$196, total \$8969.50.

R. McGray, (1) \$1; (2) 65c; (3) 13c; (4) \$18.75; (5) 4.8c; (6) \$260; total \$9,413.35.

Petersen & Elssler (1) \$2.30 ;(2) 70c (3) 20c; (4) 17; (5) 4½c; (6) \$260; total, \$9702.50.

Stroud Bros., (1) \$1.50; (5) \$1; (3) 12c; (4) \$28.45; (5) total \$1350; (6) \$350; total \$12,796.85.

BAKERSFIELD, Kern Co., Calif.—Currie & Dulgur, Kern County Land Bldg., Bakersfield, at \$1,765 awarded contract by county supervisors to construct reinforced concrete box culvert on Kern River Park Highway, involving:

- (1) 60 cu. yds. excav.;
 - (2) 88.78 cu. yds. concrete;
 - (3) 6422 lbs. reinf. steel.
- Unit bids follow:
- Currie & Dulgur, (1) 92c; (2) \$16; (3) 4½c; total \$1764.67.
 - Petersen & Elssler, (1) \$1; (2) \$16; (3) 5c; total \$1801.58.
 - G. A. Graham (1) \$1.50; (2) \$16; (3) 5c; total \$1831.58.
 - Stroud Bros., (1) 75c; (2) \$18.50; (3) 4½c; total \$1976.42.

BAKERSFIELD, Kern Co., Calif.—As previously reported, F. A. Greenough, 130 Lincoln St., Bakersfield, at \$2,317.50 awarded contract by county supervisors to construct timber bridge on Shafter-Lerdo Highway, involving:

- (1) 150 cu. yds. excav.;
 - (2) 180 cu. yds. embank. in place;
 - (3) 30,900 ft. B. M. timber.
- Complete list of unit bids follows:
- F. A. Greenough (1) 44c; (2) 32c; (3) \$71; total, \$2317.50.
 - Currie & Dulgur, (1) 77c; (2) 69c; (3) \$75; total, \$2553.20.
 - Petersen & Elssler, (1) \$1; (2) 70c; (3) \$75; total \$2593.50.
 - G. A. Graham, (1) \$1.25; (2) 60c; (3) \$77; total, \$2674.80.
 - Greene Const. Co., (1) \$1.25; (2) 75c; (3) \$78; total, \$2732.70.
 - Geo. Isaac, (1) \$1; (2) \$1.50; (3) \$260; total, \$2969.25.
 - M. H. Slocum (1) \$1.50; (2) 65c; (3) \$87; total, \$3020.20.
 - Stroud Bros., (1) \$2; (2) \$1.25; (3) \$96; total, \$3431.40.

KERN COUNTY, Cal.—M. H. Slocum, 2055 Veteran Ave., Los Angeles, at \$25,118 awarded contract by State Highway Commission to construct 4 timber bridges from 17 to 21 miles west of Wasco, 1 composed of twelve 19-ft. spans, 1 composed of four 19-ft. spans and 2 composed of two 19-ft. spans each, all on frame bents with concrete footings.

STOCKTON, San Joaquin Co., Cal.—Public hearing will be held in the city council chambers December 9 to consider construction of the proposed Charter Way subway. It is expected the project will be financed by the Western Pacific and Southern Pacific railroads and the city of Stockton. Lyle Payton is city engineer.

SACRAMENTO, Cal.—City Manager Jas. S. Dean announces the Southern Pacific Railroad has indicated its willingness to share in the cost of the proposed H St. Subway, estimated to cost between \$90,000 and \$100,000, including paving. The railroad would pay approximately \$45,000 of the total cost. Plans will provide for a clear span structure of the type now in use at 16th and B Sts. with sufficient room for four lanes of traffic, constructed in piles and reinforced with steel.

STOCKTON, San Joaquin Co., Cal. San Joaquin County Board of Supervisors has applied to U. S. District Engineer for approval of plans and specifications of a trestle bridge, 68 ft. long on south bank, 68 ft. trestle on north bank and 75 ft. steel span over center section of slough. It is proposed to erect the bridge 2.9 miles southwest of Thornton.

MERCED, Merced Co., Cal.—Until December 9, 11 A. M., bids will be received by P. J. Thornton, Clerk of Board of Supervisors, to construct concrete bridge No. 226 over Mustang Creek on Looney Road, North Line Section 10, Township 5 South, Range 12 East, in Road District No. 1. Certified check of 10% required, made payable to Chairman of Board. Plans and specifications on file with County Clerk or County Surveyor or obtainable from W. E. Bedesen, county surveyor on deposit of \$10, returnable. G. H. Winton, city engineer.

STOCKTON, San Joaquin Co., Cal.—A consulting engineer is to be employed by County Engineer Julius Manthey to prepare plans and specifications for a bridge at the Garwood ferry. Engineer Manthey reported the War Department has already indicated they will approve the plans.

STOCKTON, San Joaquin Co., Cal.—Public hearing on Charter Way Subway, which was to be held in city council chambers December 11, has been indefinitely postponed. Preparation of plans will be delayed 6 months. Subway was to be financed by Western Pacific and Southern Pacific railroads and the City of Stockton. Lyle Payton, city engineer.

MARIN COUNTY, Cal.—Healy-Tibbitts Const. Co., 64 Pine Street, San Francisco, at \$329,667, submitted low bid to State Highway Commission, Nov. 26, to construct bridge across Richardson Bay and over tracks of the Northwestern Pacific Railroad at Manzanita, consisting of one 50-ft. plate girder lift span on concrete piers with pile foundations, one 45-ft. steel stringer span on concrete bents with pile foundations and approx. 2340 ft. of timber trestle on pile and frame bents. Complete list of bids follows:

Healy-Tibbitts Const. Co., San Francisco, \$329,667
H. W. Rohl Co., Los Angeles, \$33,335
MacDonald & Kahn, S. F., 341,436

Pacific Bridge Co., Portland... 343,961
Merritt, Chapman and Scott, San Pedro... 346,710
Lord & Bishop, Sacramento... 347,499
Fredrickson & Watson and Fredrickson Bros., Oakland... 347,972
Rocca & Colletta, San Rafael... 352,131
Butte Const. Co., S. F.... 353,726
Siems Helmers, Inc., San Jose 367,335
Skeels & Graham Co., Roseville... 373,223
San Francisco Bridge Co., S.F. 374,246
A. W. Kitchen, S. F.... 385,659
Mercer-Fraser Co., Eureka... 389,384
M. B. McGowan, S. F.... 395,228
Schuler & McDonald, Oakland 402,620
Bids held under advisement.

NAPA, Napa Co., Cal.—City Council approved plans for new Third St. Bridge. Same will be sent to War Department for approval as to clearing, etc., before further details can be worked out. H. A. Harrold, city engineer. Recent bond election called to finance same for \$40,000.

STOCKTON, San Joaquin Co., Cal.—John Hachman awarded contract at \$1330 by Board of Supervisors to construct bridge near the site of a former structure on the Waverly Road over Duck Creek. Other bidders were John Strom, \$1999; T. E. Toothacre, \$1945; J. E. Fitzsimmons, \$1985; Nelson Bros., \$2225.

DREDGING, HARBOR WORKS & EXCAVATIONS

SAN FRANCISCO—Meyer Rosenberg, 1755 San Bruno Ave. at approximately \$200,000 awarded contract by Western Pacific Railroad, Mills Bldg., for 1,728,000 sq. ft. of fill in Islals Creek area which the railroad proposes to develop for industrial sites and to be served by the combined Western Pacific and Great Northern Railroads.

VALE, Oregon.—Until 10 A. M. Dec. 19, bids will be received by the United States Department of the Interior, Bureau of Reclamation, Vale, Oregon, for the construction of earthwork and structures bet. stations 2060 plus 58 and 2450 of the Vale main canal and the Bully Creek east bench lateral system, Vale Project, Oregon, involving:

- (1) 582,350 cu. yds. excav. all classes;
 - (2) 25,000 sta. cu. yds. overhaul;
 - (3) 8400 cu. yds. backfill about struc.;
 - (4) 1890 cu. yds. concrete;
 - (5) 118,000 lbs. plate reinf. bars,
 - (6) 5590 lin. ft. laying 12- 15- 18- and 24-in. concrete pipe;
 - (7) 20,900 lbs. install gates, gate lifts and struc. steel;
 - (8) 22 M ft. b.m. erecting bridges.
- Materials will be furnished by the government. Spec. may be obtained from the office of the Bureau of Reclamation at Vale, Oregon, Denver, Colo., or Washington, D. C. Edward Mead, Commissioner.

OAKLAND, Cal.—Until Dec. 26, 3 P. M., bids will be received by U. S. Engineer Office, Custom House, San Francisco, to dredge Oakland Harbor. Further information obtainable from above.

IRRIGATION PROJECTS

MERCED, Merced Co., Cal.—Election will be held December 17 in the proposed West San Joaquin Irrigation District to form district as sponsored by the People's Protective Association. The district will comprise approximately 250,000 acres, including lands in Merced, Fresno and Stanislaus counties. After formation, bonds will be voted to finance construction of a complete system of irrigation works.

STREET LIGHTING SYSTEMS

SAN FRANCISCO.—Complete list of bids received by City Purchasing Agent, 270 City Hall, to furnish and deliver 600 metal and 300 concrete Boulevard Lighting Standards follow:

(1) single light concrete; (2) single light bracket concrete; (3) with two-light brackets concrete; (4) single light cast iron; (5) 2-light cast iron; (6) single light cast bronze; (7) 2-light cast bronze; (8) single light composite bronze and concrete; (9) single light bracket composite bronze and concrete; (10) two-light bracket composite bronze and concrete; (11) single light cast steel; (12) two-light cast steel; (13) composite wrought and cast iron single light; (14) single light bracket composite wrought and cast iron; (15) 2-light bracket composite wrought and cast iron; (16) single light composite wrought and cast iron; (17) single light bracket composite wrought and cast iron; (18) 2-light bracket composite wrought and cast iron. (a) each first 100; (b) each in excess of 100.

California Artistic Metal & Wire Co., (4) \$198.75; \$174.25; (5) \$265.70; \$231.35; (6) \$476; 452; (7) \$634; \$598. Taper Tube Pole Co., (4) \$174.40; \$157.90; (5) \$197.25; \$177.75; (16) \$91.01 \$83.85; (17) \$160.10; \$127.05.

Alta Electric Co., (3) \$123.43; \$89.83; (2) \$195.99; \$156.39; (3) \$226.96; \$182.34; (4) \$134.35; \$119.65; (5) \$152.20; \$121.20; (8) \$215.20; \$177.40; (9) \$291.33; \$240.93; (10) \$321.78; \$271.38.

Street Lighting & Equipment Co., (13) \$114; \$114; (14) \$162.35; \$162.35; (15) \$175; \$175.

Enterprise Foundry Co., (4) \$104.50; \$96.50; (5) \$124.50; \$112.50; (11) \$164.40; \$156.40.

NePage-McKinnley Co., (1) \$70; \$64; (2) \$145; \$139; (3) \$225; \$218; (4) \$137.50; \$132.50; (5) \$169; \$164; (6) \$288.50; \$283.50; (7) \$340; \$335; (8) \$150; \$141; (9) \$220; \$221; (10) \$302; \$296; (13) \$108; \$96; (14) \$148; \$138; (15) \$175; \$165; (16) \$110; \$99; (17) \$157; \$147; (18) \$180; \$170.

Federal Ornamental Iron & Bronze Co., (4) \$165; \$157; (5) \$200; \$188; (6) \$355; \$347; (7) \$425; \$413.

F. Grassl & Co.-Travertine Works, Inc., (1) \$115.50; \$96.50; (2) \$188.50; \$159.50; (3) \$221.40; \$192.40; (8) \$188.50; \$168.50; (9) \$258.50; \$228.50; (10) \$291.40; \$262.40.

Joshua Hendy Iron Works (4) \$121.31; \$104.81; (5) \$139.37; \$120.37; (16) \$119.55; \$105.05; (17) \$188.29; \$150.29; (18) \$197.95; \$159.95.

Battle Electric & Mfg. Co., (1) \$165; \$150; (2) \$225; \$220; (3) \$275; \$260; (4) \$196; \$180; (5) \$230; \$220; (6) \$490; \$480; (7) \$580; \$550; (8) \$300; \$290; (9) \$370; \$350; (10) \$390; \$375.

Bids held under advisement.

ALAMEDA, Alameda Co., Cal.—Board of Public Utilities has been requested by the city council to submit plans on the most economical underground system of wiring possible in connection with the widening of Webster street. Cost of such a project has been estimated at approximately \$119,000, including extension of the present system of electroliners in use on Webster street north of the

segregation line along the tube approach. City Manager Clifton E. Hickok estimated that it will cost \$28,353 to widen the street four feet on each side between the segregation line and Central avenue. This project, however, cannot be started until the new electroliners have been installed, as in the case of Park street.

MARE ISLAND, Cal.—Until Dec. 24, under Circular Proposal 80-2783, Spec. 6362 bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., for Turbo-alternator, consisting of 2,000-k.w., erected on structural steel supports, provided by government, changes to existing switchboard panel and electrical apparatus and the services of a supervising erector. Information obtainable from Commandant, Navy Yard, Mare Island, Calif.

MACHINERY AND EQUIPMENT

CARMEL, Monterey Co., Cal.—City trustees order bids received to furnish a tractor and grader for street department; estimated cost \$3500.

ROSEVILLE, Placer Co., Cal.—Until December 3, 8 P. M., bids will be received by F. R. Chilton, city clerk, to furnish one asphalt machine, including tool heaters, tamper heaters, etc., and such other combined equipment required by city superintendent of streets for street repair work.

PHOENIX, Ariz.—Until Dec. 10, 2 P. M., bids will be received by John E. Brown, superintendent, U. S. Indian Field Service, Phoenix, to furnish and deliver 1 concrete mixer, similar and equal to 7S Lakewood manufactured by The Lakewood Engineering Co., Cleveland, O., equipped with 8 to 10 hp. 2-cylinder gas engine, to be radiator cooled, power charging skip, water tank, automatic, self-measuring, mixer to be mounted on steel frame with steel wheels, capacity: dry material 14 cu. ft., wet mixed concrete 7 cu. ft. Further information obtainable from above.

EL SEGUNDO, Los Angeles Co., Cal.—City rejects bids to furnish two 1½-ton motor trucks and same will be purchased in the open market.

STOCKTON, San Joaquin Co., Cal.—The Liquid Sugar Corporation has purchased the Union mill of the Sperry Flour Company at Stockton and will install about \$200,000 worth of machinery in the structure.

VERNON, Los Angeles Co., Cal.—Weeden & Company and American Securities have purchased the \$5,000,000 Vernon Bond issue, proceeds to be used for the construction of a municipal power plant and distribution system.

LOS ANGELES, Cal.—Southern California Edison Company has budgeted \$28,000,000 for construction work and extra maintenance during 1931, including \$9,000,000 for the installation of another 135,000-horsepower capacity turbine at the Long Beach steam plant.

OAKLAND, Cal.—Until Dec. 1, 4:30 P. M., bids will be received by G. B. Hegardt, secretary, City Port Commission, 424 California Bank Bldg., to furnish and deliver one heavy duty tractor for use on the Outer Harbor Terminal. Specifications obtainable from above.

ROSEVILLE, Placer Co., Calif.—Western Pipe & Steel Co. awarded

contract by Pacific Fruit Express for 600 underframes for refrigerator cars. The underframes represent an expenditure of \$300,000.

TAFT, Kern Co., Cal.—Until 7 P. M., December 9, bids will be received by the Taft Union High School District for furnishing and installing the following equipment:

One bandsaw, 36-in., of high grade modern type with 5 H. P. motor direct connected and with attachments and blades.

One Jointer, 6-inch with floor base ½ H. P. motor, guard fence and set of extra blades.

One Belt sander, vehicle drums and spindle for 8-in.x48-in. belt oscillating and with attachments, extra belt and 1½ H. P. motor.

1 Shaper, single vertical spindle, 8500 R. P. M., cast iron floor base, 1½ H. P. motor with attachments and extra bits and cutters.

One Nibbling machine, Campbell No. 1, or equal grade, with attachments and extra punches and plates.

Specifications are on file at the office of the principal of the high school. B. Rintoul, president of the board of trustees.

RAILROADS

SAN FRANCISCO.—Pacific Coast Steel Corp., 215 Market St., at \$24.70 each, under Proposal No. 653, awarded contract by city purchasing agent to furnish and deliver 500 34-in. rolled steel car wheels, and to Standard Steel Works Co., 2910 Russ Bldg., at \$26.25 each contract to furnish 48 23-in. rolled steel car wheels.

FIRE EQUIPMENT

YREKA, Siskiyou Co., Calif.—Until Dec. 8, 7:30 P. M., bids will be received by U. F. Brown, city clerk, to furnish one 500 g.p.m. motor-driven pumping engine and hose car with water equipment and a motor-driven service hook and ladder truck. Certified check 10% required with bid. Specifications on file in office of clerk.

RESERVOIRS AND DAMS

RED BLUFF, Tehama Co., Calif.—International Diamond Drill Co., Hobart Bldg., San Francisco, at approximately \$10,000 will be awarded contract by U. S. Engineer Office, Sacramento, for drilling nine test holes at site of the proposed Table Mountain Dam 13 miles north of Red Bluff.

GLENDALE, Los Angeles Co., Cal.—City council will ask bids in January to construct proposed \$350,000 reservoir at Glorieta and Verdugo.

SACRAMENTO, Cal.—A \$45,000,000 water development program on the American River, involving the construction of three major dams, to provide fresh water for the delta of the Sacramento and San Joaquin river, flood control, irrigation and electric power, was proposed in a report made public Nov. 20 by the state engineer.

PIPE LINES, WELLS, ETC.

SAN FRANCISCO.—San Francisco Board of Supervisors have authorized the expenditure of over \$1,000,000 for the construction of a 13-mile pipe line between Newark and San Lorenzo to connect the municipal water system and the Hetch Hetchy line.

GLENDALE, Los Angeles Co., Cal.—Until 10 A. M., Dec. 4, bids will be received by the city council for furnishing and delivering f. o. b.

trenchside, Glendale, the following:

- (1) 204 ft. 30-in. class D cast iron pipe;
- (2) 2200 ft. 30-in. class B cast iron pipe;
- (3) 500 ft. 24-in. class B cast iron pipe;
- (4) 600 ft. 20-in. class D cast iron pipe;
- (5) 40 tons class D fittings in size 20-in. and larger.

All of the above pipe to conform to the specifications of the American Water Works Assn. The chemical analysis of the iron, regardless of other tests, shall conform to the following limits in chemical composition, Sulphur, maximum, 0.10%; phosphorus, maximum, 0.90% manganese, maximum, 0.65%, minimum, 0.35%; silicon, maximum, 2.10%, minimum, 1.20%.

Each fitting to have cast in letter and figures plainly visible the letters C. G. W. D., size of fittings, and in addition the degree of curvature on all ends.

- (6) 6700 ft. 4-in. standard single hub cast iron soil pipe;
- (7) 5000 ft. 6-in. standard single hub cast iron soil pipe;
- (8) 14 6-in. standard 1/4 bend soil pipe fittings;
- (9) one 6-in. standard 1/5 bend soil pipe fittings;
- (10) one 6-in. standard 1/6 bend soil pipe fitting;
- (11) six 6-in. standard 1/8 bend soil pipe fittings;
- (12) two 6-in. standard 1/10 bend soil pipe fittings;
- (13) twelve 4-in. standard 1/4 bend soil pipe fittings;
- (14) one 4-in. standard 1/5 bend soil pipe fitting;
- (15) one 4-in. standard 1/6 bend soil pipe fitting;
- (16) 36 4-in. standard 1/8 bend soil pipe fittings;
- (17) two 4-in. standard 1/10 bend soil pipe fittings;
- (18) six 6x6 standard "Y" branch soil pipe fittings;
- (19) (19) 36 6x4 standard "Y" branch soil pipe fittings;
- (20) 36 4x4 standard straight tee soil pipe fittings.

Alternate bids will be received on items 6 to 20, inclusive, for extra heavy pipe and fittings.

Quantity may be increased or decreased 25% at the option of the City of Glendale at any time before signing of contract. Certified check, 10% G. E. Chapman, city clerk. P. Diederich superintendent of plant and production.

SEWERS AND SEWAGE DISPOSAL PLANTS

OAKLAND, Cal.—Ed. Bowman, 3017 B St., Oakland, apparently submitted low bid to the city council to construct drainage structures, etc., in E Tenth St., Russett St., E Eighth St., 47th Ave., etc. Following is a complete list of the unit bid received:

- (1) 12-in. reinf. conc. pipe conduit;
- (2) 15-in. do;
- (3) 18-in. do;
- (4) 21-in. do;
- (5) 24-in. do;
- (6) 24-in. do with conc. covering;
- (8) 8x24-in. corr. iron and cement culvert;
- (9) 8x29-in. do;
- (10) 2-ft. 3-in. x 2-ft. 3-in. concrete arch culvert;
- (11) 3-ft. 6-in. x 8-ft. 6-in. reinforced concrete box culvert;
- (12) storm water inlet, 34-in.;
- (13) storm water inlet, 21-in.;
- (14) storm water inlet top 21-in.;
- (15) conc. handhole with cover;
- (16) conc. end, curtain and header walls (cu. ft.);

- (17) guard railing;
- (18) manhole;
- (19) manhole top;
- (20) lamphole.
- (A) Ed. Bowman, Oakland.
- (B) Oakland Sewer Const. Co., Oakland.
- (C) John Pestano, Oakland.
- (D) W. J. Tobin, Oakland.

	(A)	(B)	(C)	(D)
(1)	\$ 1.15	\$ 1.50	\$ 1.40	\$ 1.72
(2)	1.45	2.00	1.60	2.00
(3)	1.70	2.60	2.45	2.70
(4)	2.15	2.70	2.63	2.95
(5)	2.60	3.00	2.85	3.10
(6)	3.41	4.10	3.90	3.50
(7)	1.21	1.00	1.15	1.20
(8)	5.50	3.50	3.50	3.65
(9)	6.00	3.75	3.80	4.00
(10)	4.50	3.60	3.60	3.50
(11)	12.00	14.35	14.25	12.00
(12)	50.00	45.00	38.50	40.00
(13)	42.00	35.00	29.00	40.00
(14)	28.00	20.00	18.00	15.00
(15)	20.00	21.00	33.00	20.00
(16) .....	.70	1.75	.60	1.00
(17)	35.00	50.00	33.00	40.00
(18)	40.00	40.00	40.00	60.00
(19)	16.00	20.00	15.00	15.00
(20)	12.00	20.00	15.00	20.00

SANTA MARIA, Santa Barbara Co., Cal.—City Engineer York Peterson making surveys to extend sewer system in north section of city; estimated cost \$25,000.

OAKLAND, Cal.—Ed Bowman, 3017 B St., awarded contract at \$9705 by city council to construct drainage structures, etc., in E 10th, Russett, E 8th Sts. and 47th Ave., etc.

NEWPORT BEACH, Orange Co., Cal.—Plans and specifications for the bend adopted by the city council. The estimated cost is \$185,000. Currie Engineering Co., Anderson Bldg., San Bernardino, is the engineer. The council has ordered acquisition of the necessary property.

NEWPORT BEACH, Orange Co., Cal.—Currie Eng. Co. and City Engineer R. L. Patterson are preparing plans for the new sewage disposal plant to be constructed northwest of the city. The plant will cost about \$185,000. Plans will be ready to submit to the city council within thirty days.

EUREKA, Humboldt Co., Cal.—City Engineer E. D. Gardner has been instructed by the city council to prepare plans for the installation of an electrolier system in Fourth street from Broadway to J Street. The cost is estimated at \$15,000. Project will be financed under the 1911 Act.

MONTEREY, Monterey Co., Cal.—Until December 2, 7 P. M., bids will be received by Clyde A. Dorsey, city clerk, (3942) to construct 6-in. vitrified sewers in portions of Fillmore St., Grand St., Terry St., Parcel St., etc., together with 31 manholes, 4 inspection holes and 570 wye branches. 1911 Act. Bond Act 1915. Certified check 10% payable to city required with bid. Plans on file in office of clerk.

BEVERLY HILLS, Cal.—Until Dec. 16, 8 P. M., bids will be received by city council to furnish 108 ornamental lighting posts to be installed in Santa Monica Blvd. Spec. obtainable from city clerk.

SALINAS, Monterey Co., Cal.—Until December 1, 7:30 P. M., bids will be received by M. R. Keef, City Clerk, to construct sanitary sewer in Hoover St., a sanitary sewer in alley in Block 4 1/2, Sherwood and Helman Addition to Salinas; a sanitary sewer in Cattlemen's Lane; a storm sewer from National St. to Wilson St. storm

sewer; and a storm sewer from the Southern Pacific Railroad to the Reclamation Ditch. Plans obtainable from Howard Cozens, city engineer.

SAN FRANCISCO — E. J. Treacy, Oak Hldg., at \$2303 awarded contract by Board of Public Works to improve Brussels St., between Ward and Mencl Sts., including crossings of Ward, Ordway and Mencl Sts., involving construction of vitrified clay pipe sewers, manholes and wye branches.

BERKELEY, Alameda Co., Cal.—Until December 2, 10 A. M., bids will be received by Florence E. Turner, city clerk, to construct storm sewer in Indian Rock Path from Arlington Ave. easterly. Certified check 10% payable to city of Berkeley required with bid. Plans obtainable from city engineer on deposit of \$10, returnable.

WATER WORKS

MONROVIA, Los Angeles Co., Cal.—Until 7:30 P. M., Dec. 15, bids will be received by the city council for furnishing and installing one centrifugal booster pump, capacity 1400 G. P. M., total head 270 ft. and one 150 h.p. motor. Surety company bond or certified check 10%. Specifications, etc., may be obtained from the city engineer. F. A. Dupar, city clerk.

LOS ANGELES, Cal.—Bids received by the city purchasing agent, Thomas Oughton, November 24 for gate valves under specifications No. 2226, are as follows:

California Pipe & Supply Co., (1) 8 36-in. hub end, double disc, square head, side geared gate valves, each with 6-in. by-pass, f. o. b. cars S. P. team track, Van Nuys, or f. o. b. delivered to department warehouse at Van Nuys, \$1202; (2) one 30-in. hub end, double disc, square head, side geared Rensselaer or equal square bottom type gate valve, with 6-in. by-pass, f. o. b. delivered to department warehouse, Van Nuys, \$833; (3) one 30-in. hub end, double disc, square head, side geared gate valve with 6-in. by-pass, f. o. b. delivered to department warehouse, Van Nuys, \$808; (4) two 30-in. hub end, double disc, square head, side geared gate valves, each with 6-in. by-pass, f. o. b. delivered to department warehouse, 410 Ducommun St., Los Angeles, \$818; (5) one 30-in. hub end, double disc, square head, side geared gate valve with 6-in. by-pass, f. o. b. delivered to department warehouse, 410 Ducommun St., Los Angeles, \$818.

Fitzpatrick & Lock Co., (1) \$1234; (2) \$839.95; (3) \$783; (4) \$778.25; (5) \$939.10.

Pacific Pipe & Supply Co., (1) \$1234; (2) \$839.95; (3) \$783; (4) \$778.25; (5) \$939.10.

Chapman Valve Co., (1) \$1495; (2) no bid; (3) \$915; (4) \$915; (5) \$1329. Rensselaer Valve Co., (1) \$1610; (2) \$1021.25; (3) \$931; (4) \$931; (5) \$1157. National Cast Iron Pipe Co., (1) \$1225; (2) no bid; (3) \$825; (4) \$825; (5) \$900.

Darling Valve & Mfg. Co., (1) \$2063; (2) no bid; (3) \$1287; (4) \$1287; (5) no bid.

ANTIOCH, Contra Costa Co., Cal.—Until December 8, 8 P. M., bids will be received by J. E. McElhenry, town clerk, to furnish and install a horizontal pressure filter; for enlarging the building housing filters in addition to other minor improvements at Municipal Water Plant. Certified check 10% payable to town clerk required with bid. Plans obtainable from E. L. O'Hara, city engineer.

SANTA CRUZ, Santa Cruz Co., Cal.—City council rejects bids to furnish between 8,000 and 10,000 lin. ft. welded steel water pipe. It has not been decided whether to ask new bids or to purchase the material in the open market. Bids received were:

Calif. Corr. Culvert Co.	\$2.22
*American Concrete Pipe Co.	2.50
Steel, Inc.	2.81
Montague Pipe Co.	3.11
Western Pipe & Steel Co.	3.29
A. R. Pipe	3.98
U. S. Pipe & Foundry Co.	3.66

*This bid covered concrete pipe.

NATIONAL CITY, San Diego Co., Cal.—F. W. Seifert has outlined a plan whereby 10,000,000 gallons of sewage now running daily into San Diego Bay can be converted into water suitable for agricultural purposes. A treatment plant, pumping plant, reservoir and about 16 miles of 20-in. pipe would be required.

SAN MATEO CO., Cal.—Mayors of Redwood City, San Carlos and Belmont have commissioned A. J. Cleary, consulting engineer, Mills Bldg., San Francisco, to survey the water resources of the three communities. The tri-city survey is a part of the plan to create five city water districts to include Menlo Park, Atherton, Redwood City, San Carlos and Belmont. Surveys in the other two cities have been completed, and when the latest survey is completed steps will be taken to consolidate the cities in a water conservation district.

BOULDER CITY.—Until 2 P. M., Dec. 12, bids will be received by the United States Bureau of Reclamation, Denver, Colo., for the fabrication and erection of two arc-welded or riveted plate steel tanks for water supply. Boulder City, Nev., Boulder Canyon Project. One tank will be 100 ft. in diameter and 34 ft. high, with No. 10 gauge sheet steel roof of 2,000,000 gals. capacity, to be erected in Boulder City. The other tank will be 40 ft. in diameter and 25 ft. high, without roof, of 235,000 gals. capacity, to be erected at the site of the filter plant about 4 miles east of Boulder City. The estimated quantities of metal work involved are: 2,000,000-gal. tank, 450,000 lbs.; 235,000-gal. tank, 35,000 lbs. The tanks will be erected on oiled sand foundations constructed in advance by the government. A guarantee of ten per cent will be required with each bid. No deposit for plans. Spec. may be obtained from the office of the Bureau of Reclamation at Las Vegas, Nev., or Denver, Colo. R. F. Walter, chief engineer.

OWYHEE DAM, Ore.—Until 2 P. M. Dec. 23, bids will be received by the United States Department of the Interior, Bureau of Reclamation, Denver, Colo., for furnishing three 48-in. internal differential needle valves for Owyhee Dam, Owyhee project, Ore. Spec. No. 516. The valves will be installed by the government. For particulars address the Bureau of Reclamation at Owyhee, Denver or Washington. D. C. Elwood Mead, Commissioner.

MONROVIA, Los Angeles Co., Cal.—Until December 15, bids will be received by city council to furnish and install booster pump at Ivy Ave. Pumping Plant. Specifications obtainable from city clerk.

MILBRAE, San Mateo Co., Calif.—Milbrae Utility District will hold an election December to decide the question of issuing and selling bonds of \$14,000 to finance the installation of a water piping system, storage tanks, pumps, etc. The line will connect with a supply main of the Spring

Valley Water Company at El Camino Real and Chadbourne Ave. and will terminate at a storage tank on the Mills Property. Henry Welbrook is manager for the district. Geo. A. Kneese, Courthouse, Redwood City, engineer.

SANTA BARBARA, Cal.—C. G. Clausen Co., 825 Folsom St., San Francisco, at \$747 awarded contract by city council to furnish 900 ft. 6-in. c. l. pipe. Other bids: American Cast Iron Pipe Co., \$584; U. S. Pipe & Foundry Co., \$593.70.

STREETS AND HIGHWAYS

WESTMORELAND, Imperial Co., Cal.—Until 7:30 P. M., Dec. 11, bids will be received by the Westmoreland Sanitary District, Imperial County, for the construction of sewers, involving approx. 25,000 lin. ft. of vit. sewer laterals, including 8-in., 10-in. and 12-in. pipe, with manholes, vyes, flush tanks, etc. 1911 Act. Plans may be obtained from the Currie Engineering Co., 219 Anderson Bldg., San Bernardino, upon deposit of \$5.

HAYWARD, Alameda Co., Calif.—Approximate quantities involved in improving Prospect St. bet. Simon and Warren Sts. and Warren St. bet. Main and Prospect Sts., are as follows: 709 sq. ft. concrete sidewalk; 202 lin. ft. 4-in. dia. vit. clay side sewers; 34,923 sq. ft. 6-in. full penetration mulchified asph. macadam pavement (including grading); 54 lin. ft. Redwood headerboard. M. B. Temple, city clerk. J. B. Holly, city engineer.

OAKLAND, Cal.—San Leandro Rock Co., 1273 Foothill Blvd., San Leandro, awarded contract at .90c cu. yd. by City Port Commission to furnish 5000 tons quarry waste crushed rock for drainage structures.

BURLINGAME, San Mateo Co., Cal.—City Council declares intention to improve Newhall Road from Forest View to Sanchez Ave., involving grading, paving with 6-in. waterbound macadam base and 2½-in. asph. wearing surface, 4-ft. sidewalks, 10-in. conc. pipe cross drain, catch basin, sewer laterals, 6-in. concrete curb. Imp. Act 1911. Hearing Dec. 8. J. R. Murphy, city clerk. C. M. Thomas, city engineer.

SAN JOSE, Santa Clara Co., Cal.—City Council declares intention (5239) to improve Elizabeth, Hayes and Hewlett Sts., involving grading, pave with 1½-in. asph. conc. wearing surface, 2½-in. asph. conc. foundation, cem. concrete sidewalks, curbs, gutters, manholes, 6-in. vit. pipe sewer, 4-in. vit. pipe house lateral, concrete storm water inlet with 8-in. vit. pipe drain. 1911 Act. Hearing Dec. 8. John J. Lynch, city clerk. Wm. Popp, city engineer.

FRESNO, Fresno Co., Cal.—Valley Paving & Const. Co., Visalia, at \$33,820 awarded contract by county supervisors to pave Mount Whitney Ave. in Riverdale Road District No. 14, involving 2500 lin. ft. of 3-inch Permatite asphaltic concrete surface, 45 ft. wide and 5000 lin. ft. of curbs and gutters. Complete list of bids follows:

Valley Paving & Const. Co.	\$33,820
Union Paving Company	34,590
E. J. Johnson & Son	36,545
Kuhn Brothers	38,640
Thompson Brothers	42,890

SANTA CLARA COUNTY, Calif.—Coutoules Const. Co., San Francisco, at \$212,284 submitted low bid to the State Highway Commission Nov. 26, to grade and pave with bituminous macadam, 10.7 miles between San Felipe and one mile east of Bells Station. Complete list of bids follows:

Coutoules Const. Co., S. F.	\$212,284
H. E. Coats, Sacramento	214,750
H. W. Rohl Co., Los Angeles	217,851
Healy-Thibbs Const. Co. S. F.	223,738
Frederickson and Watson & Frederickson Bros., Oakland	224,904

Hemstet & Bell, Marysville	226,154
A. Teichert & Son, Sacramento	228,784
M. L. Bevanda, Stockton	229,333
I. R. Rider, San Jose	233,275
Larsen Bros., Galt	233,283
C. W. Wood, Stockton	240,731
McCravy Co., Los Angeles	241,556
Granite Const. Co., Watsonville	244,889

Peninsula Paving Co., S. F.	248,659
J. F. Knapp, Oakland	253,994
W. H. Hauser, Oakland	256,622
E. R. Dennis Const. Co., San Diego	266,345

Steele & Graham, Roseville	279,551
Isbel Const. Co., Fresno	299,265
F. W. Nighbert, Ekersfield	328,642

Bids held under advisement.

IMPERIAL COUNTY, Calif.—E. R. Dennis Const. Co., San Diego at \$227,453 submitted low bid to State Highway Commission Nov. 26, to grade and pave with asphalt concrete, 6 miles between Araz and Yuma. Complete list of bids follows:

E. R. Dennis Const. Co., San Diego	\$227,453
Steele Finley, Santa Ana	240,238
Bassich Bros. Const. Co., Torrance	249,914
R. E. Hazzard Const. Co., San Diego	249,965
H. W. Rohl Co., Los Angeles	273,257
Southwest Paving Co., L. A.	288,644
Griffith Co., Los Angeles	292,818
Hanahan Co., S. F.	294,950
Hall Johnson Co., Alhambra	310,950

Bids held under advisement.

SAN BERNARDINO, Cal.—San Bernardino County Supervisors will cooperate with the city of San Bernardino in improving three entrances to the city. West Fifth St., East Third St. and Colton Ave., south of the National Orange Show grounds, are slated to share the improvement.

CONTRACTORS' MACHINE WORKS
SPECIALISTS ON REPAIRING AND REBUILDING OF
Bunkers, Hoppers, Chuting, Conveyors, Rollers, Mixers, Hoists,
Shovels, Tractors, Pavers, Crushers, Drag Lines, Elevators, Car
Unloaders, and other Road and Building Equipments;
BLACKSMITHING AND WELDING
Builders of Rosenberg Portable Car Unloaders

CREAR & BATES

57 Zoe St., bet. 3rd and 4th, off Brannan St.
Phone GA 4734 San Francisco

program, which will involve the outlay of at least \$100,000 by the city and county. It is possible the sum may be doubled and its scope extended to embrace construction of a paved boulevard, between San Bernardino and Colton, vit the Orange show grounds.

SAN LUIS OBISPO COUNTY, Cal.—Until December 17, 2 P. M., bids will be received by State Highway Commission to grade and pave with asphalt concrete, 10.9 miles between Paso Robles and north boundary.

SANTA BARBARA COUNTY, Cal.—Until December 17, 2 P. M., bids will be received by State Highway Commission to grade and pave with Portland Cement Concrete, 2.8 miles between Gaviota and 1 mile north of Las Cruces.

ALAMEDA, Alameda Co., Cal.—See "Street Lighting Systems," this issue. Widening of Webster street proposed by city council at a cost of \$119,000. Clifton E. Hickok, city manager.

HAYWARD, Alameda Co., Calif.—City council declares intention (\$26) to improve Prospect St. bet. Simon and Warren Sts. and Warren St. bet. Main and Prospect Sts., involving grading, 6-in. full penetration asph. macadam pavement, 4-in. vit. clay pipe side sewers, cement concrete curbs, gutters and walks. 1915 Bond Act, 1911 Act. Hearing Dec. 3. M. B. Templeton, city clerk. Jesse B. Holly, city engineer. (Quantities of materials involved will be published shortly).

TAFT Kern Co., Cal.—Due to protests the city trustees have cancelled proceedings under Res. of Intention No. 225 to improve portions of San Emidio St., involving grading; conc. curbs, walks and gutters. 1911 Act. C. A. Page, city clerk.

MENLO PARK, Santa Clara Co., Cal.—City Engineer Bert J. Mehl preparing plans for full-width paving, curbs, gutters and storm sewers in Stanford Park, property owners having petitioned for the work. The ten streets to be improved are those from El Camino Real to Arbor Road bet. the Creek and Middle Ave. The cost is estimated at \$102,186.

SANTA MARIA, Santa Barbara Co., Cal.—Santa Maria Const. Co., Santa Maria, awarded contract by the city council \$28,575.88 to improve Cypress St. bet. Broadway and Suez Ave., and portions of other streets, under 1911 Act. involving:

- (1) 94,000 sq. ft. 4-in. asph. concrete pavement;
- (2) 53,000 sq. ft. 3-in. oil macadam;
- (3) 11,554 sq. ft. cement gutters, with small amount of incidental work.

SANTA BARBARA, Calif.—County supervisors approved the expenditure of \$67,000 as Santa Barbara county's share of the cost of the proposed highway from San Joaquin Valley to the Coast highway by way of Maricopa and Carpinteria. Kern and Ventura counties, the state and the U. S. forestry service will contribute a large part of the cost.

SAN LEANDRO, Alameda Co., Cal.—City council abandons proceedings to install electroliner system in Dutton Ave. from East 14th St to Kenilworth Ave. Project will again be considered early next Spring.

SAN FRANCISCO—H. V. Tucker, 300 Vermont St., at \$38,731 awarded contract by Board of Public Works to construct Section A of the Alemany

Bldg., involving 100,000 cu. yds. excavation; 8 brick manholes; 100 lin. ft. 12-in. and 170 lin. ft. 18-in. V.C.P. sewer; 70 cu. yds. class B conc. in 18-in. sewer encasement, piers and tunnel bulkheads; 7000 lbs. bar reinforcing steel; 600 lin. ft. 18-in. corrugated pipe; 1 redwood intake.

SAN FRANCISCO—E. J. Tracey, Cal. Bldg., at \$2048 awarded contract by Board of Public Works to improve crossings of Kansas and 22nd Sts., involving grading; armored conc. curbs; sidewalks; brick catchbasins; 2-inch asph. conc. surface pave on 6-in. Class F conc. base and improve 22nd St., bet. Kansas and Rhode Island Sts., (where not), involving armored conc. curbs; side sewer; 6-in. Class E conc. pavement.

OAKLAND, Cal.—Until December 4 12 noon, bids will be received by P. C. Merritt, city clerk, to improve portion of 92nd Ave., involving:

- (1) 50,637 sq. ft. grading;
- (2) 1,626 lin. ft. concrete curb;
- (3) 3,259 sq. ft. conc. gutter;
- (4) 27,172 sq. ft. penetration macadam pavement;
- (5) 2 storm water inlets (Type E);
- (6) 153 lin. ft. 21-in. reinf. conc. pipe conduit;
- (7) 114 lin. ft. 18-in. conc. pipe conduit;
- (8) 80 lin. ft. 12-in. conc. pipe conduit;
- (9) 765 lin. ft. 8-in. vit. pipe sewer;
- (10) 4 manholes;
- (11) 16 Y branches.

1911 Act. Cert. check 10% payable to city required with bid. Plans on file in office of clerk. Walter N. Frickstad, city engineer.

SAN LUIS OBISPO, Cal.—City Engineer Leon Moore completing plans for concrete paving in Pacific St., bet. S. P. R. R. tracks and Lower Higuera street.

SAN FRANCISCO—Bureau of Engineering, Department of Public Works, 3rd floor, City Hall, completes specifications to improve Bancroft Avenue bet. Quint St. and Thornton Ave. Estimated cost \$2150, involving:

- (1) 106 lin. ft. armored conc. curb;
- (2) 775 sq. ft. one-course conc. sidewalk;
- (3) 70 lin. ft. 10-in. V.C.P. culvert;
- (4) 5340 sq. ft. asph. conc. pavement, 2-in. asph. conc. surface, 6-in. class F conc. base.

SAN JOSE, Santa Clara Co., Calif.—Peninsula Paving Co. awarded contract at \$3,763.30 by city council to improve Vermont St. bet. Myrtle and Elm Sts., involving grading; 1½-inch asph. conc. surface pavement on 2½-in. asph. conc. base; 4-in. vitrified house lateral sewers; cem. concrete walks and gutters. Two other bids were: San Jose Paving Company at \$3,873.50 and A. J. Ralsch, \$4,171.50.

OAKLAND, Cal.—Until December 4 12 noon, bids will be received by P. C. Merritt, city clerk, to improve portions of Hopkins St. Place and portions of Hopkins St. and Coolidge Ave. involving:

- (1) 344,626 sq. ft. grading;
- (2) 852 lin. ft. conc. curb with steel curb guard;
- (3) 10,350 lin. ft. conc. curb;
- (4) 270,020 sq. ft. conc. pavement;
- (5) 933 sq. ft. conc. driveway;
- (6) 60,816 sq. ft. conc. sidewalk;
- (7) 188 lin. ft. 10-in. vit. pipe conduit with concrete covering;
- (8) 14 lin. ft. 10-in. pipe conduit;
- (9) 101 lin. ft. 12-in. do;
- (10) 46 lin. ft. 15-in. do;
- (11) 28 lin. ft. conc. box culvert with reinforced top;
- (12) 2 concrete handholes with cast iron covers;
- (13) 2 concrete inlets with cast iron gratings;
- (14) 1 manhole;
- (15) 1 storm water inlet (Type A);
- (16) 12 storm water inlet (34-in. opening);
- (17) 176 lin. ft. 8-in. vit. pipe sewers;
- (18) 2347 lin. ft. 5-in. vit. pipe side sewers;
- (19) 9 manhole tops;
- (20) 2 lampfro;
- (21) 1 lampfro to be reinforced;
- (22) 4 Y branches.

1911 Act. City will pay 22½% of total cost from Treasury. Certified check 10%, payable to city required with bid. Plans on file in office of clerk. Walter N. Frickstad, city engineer.

VENTURA, Ventura Co., Cal.—Until Dec. 16, 11 A. M., bids will be received by L. E. Hollowell, county clerk, to surface approximately two miles of Eliseo Road in Wheeler Canyon with read oil, sand and gravel, 18-ft. wide and 5-in. thick, involving 4500 tons of asphaltic surfacing mixture. Spec. obtainable from C. W. Pettit, county surveyor.

VENTURA, Ventura Co., Cal.—Until Dec. 16, 11 A. M., bids will be received by L. E. Hollowell, county clerk, to construct oil macadam shoulders on each side of pavement in Ventura Ave. bet. Ventura Ave. oil slide and L. Cross, approx. 4 miles in length, involving 120,000 sq. ft. 5-in. oil macadam. Spec. obtainable from C. W. Pettit, county surveyor.

SACRAMENTO, Cal.—Until Dec. 8, 10 A. M., bids will be received by Harry W. Hall, county clerk, Room 201, Court House Bldg., to construct a corrugated galvanized iron culvert on Ryde-Howard Landing Road located on Grand Island. Certified check of 10% required, payable to Chairman of Board, returnable. Plans and specifications on file with County Engineer. Harry W. Hall, county clerk; Chas. Deterding, county engineer.

See call for bids under official proposal section in this issue.

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SPECIFY -- USE

Timpie Hydrated Lime

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Ten Years of Uniformly Satisfactory Experience in High

Class Pacific Coast Construction

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OAKLAND, Cal.—City council declares intention to improve Foothill Blvd. bet. Parker Ave. and Hollywood Blvd., and portions of Jones and Truman Aves., adjacent to Foothill Blvd. Project involves:

- (1) 486,293 sq. ft. grading;
 - (2) 713 lin. ft. conc. curb with steel curb guard;
 - (3) 15,733 lin. ft. conc. curb;
 - (4) 475,428 sq. ft. conc. pavement;
 - (5) 654 lin. ft. 2-ft. 3-in. by 3-in. concrete culvert;
 - (6) 200 lin. ft. 10-in. vit. pipe conduit;
 - (7) 96 lin. ft. 12-in. do.;
 - (8) 1,114 lin. ft. 15-in. do.;
 - (9) 59 lin. ft. 15-in. extra strength reinf. conc. pipe conduit;
 - (10) 67 lin. ft. 18-in. vit. pipe conduit;
 - (11) 202 lin. ft. 21-in. do.;
 - (12) 818 lin. ft. 24-in. do.;
 - (13) 6 concrete inlets with cast iron top (34-in. opening);
 - (14) 1 storm water inlets (Type A);
 - (15) 3 storm water inlets (21-inch opening);
 - (16) 13 storm water inlet (34-inch opening);
 - (17) 5 manholes with standard top;
 - (18) 2 manholes with inlet top (34-in. opening);
 - (19) 1 15-in. lamphole.
- 1911 Act. City will pay 41% of the total cost from Treasury. Hearing Dec. 4. Frank Merritt, city clerk. Walter N. Frickstad, city engineer.

OAKLAND, Cal.—City council declares intention to improve E Tenth St. bet. High St. and 50th Ave., Russet St. bet. 50th and 54th Aves., etc. Project involves:

- (1) 156,749 sq. ft. grading;
 - (2) 341 lin. ft. conc. curb with steel curb guard;
 - (3) 2,597 lin. ft. concrete curb without steel curb guard;
 - (4) 154,790 sq. ft. conc. pavement;
 - (5) 93 lin. ft. 8-in. by 10-in. corr. iron and concrete culvert;
 - (6) 14 lin. ft. 10-in. vit. pipe conduit;
 - (7) 34 lin. ft. 15-in. vit. pipe conduit;
 - (8) 2 handholes;
 - (9) 1 concrete inlet with cast iron top;
 - (10) 1 storm water inlet (21-in. opening);
 - (11) 1 manhole top.
- 1911 Act. City will pay 29% of cost from Treasury. Hearing Dec. 11. W. N. Frickstad, city engineer.

FRESNO, Fresno Co., Cal.—City Council ordered the abandonment of alleys between Wilson and Palm Aves. New plans call for 70 foot streets and an eight foot right-of-way.

SAN JOSE, Santa Clara Co., Calif.—San Jose City officials will protest the proposal of the San Jose Railroads Company to abandon 5000 feet of line on Willow St. The railroad's petition to abandon the line followed the launching of the Willow Glen widening project by Willow Glen. The San Jose Railroads protest that the income of the line is insufficient to permit the company to contribute what would be its share of the cost of the improvement, about \$30,000.

SAN JOSE, Santa Clara Co., Calif.—San Jose Paving Company awarded contract at \$2,242.30 by city council to improve portions of Morlan Ave. bet. Santa Clara and 13th Sts., involving grading, 1½-in. asphalt conc. surface pavement on 2½-in. asphalt concrete base, cement concrete walks and curbs. Other bids submitted were A. J. Raich at \$2,518.90 and Peninsula Paving Co., \$2,342.14.

SANTA CRUZ, Santa Cruz Co., Cal.—Granite Const. Co. awarded contract at \$8,333.96 by Board of Supervisors to improve Palm Ave. from Lake Ave. to Watsonville city limits, including crossbars, involving asphaltic macadam surface on 5-in. water-bound macadam base, cement concrete curbs and gutters.

SAN DIEGO COUNTY, Calif.—Triangle Rock & Gravel Co., San Bernardino, submitted low bid of \$32,714.20 to U. S. Bureau of Public Roads 461 Market St., San Francisco, for grading Section B and placing selected material on Sections A and B of Route 75, Laguna National Forest Highway, in Cleveland National Forest, 10.86 miles in length, involving:

21 acres clearing;	
28,750 cu. yds. excavation, unclassified;	
200 cu. yds. excavation, for structures;	
5,000 cu. yds. overhaul;	
6.5 miles preparing roadbed;	
1,096 lin. ft. corr. metal pipe in place;	
19,000 cu. yds. selected material in place.	
Contract to be awarded December 8. Complete list of bids follows:	
Triangle Rock & Gravel Co., San Bernardino	\$32,714.20
A. J. Vodenhamer, Ventura	\$3,371.50
V. R. Demis Const. Co., San Diego	39,508.50
Nelson & Sloane, Chula Vista	41,355.50
O. A. Linberg, Stockton	43,828.72
Hadaman & McVicar, Pasadena	48,403.50
Gist & Bell, Arcadia	48,420.80
Dimm & Taylor, L. A.	54,083.10
Engineer's Estimate	45,173.50

SAN LUIS OBISPO CO., Calif.—As previously reported, bids will be received Dec. 17 by the State Highway Commission to grade and pave with asphalt concrete, 10.9 miles bet. Paso Robles and north boundary. Project involves:

160,000 cu. yds. rdwy. excav. without class;	
850,000 sta. yds. overhaul;	
5,000 cu. yds. struc. excav.;	
\$2,800 cu. yds. subgrade for pavement;	
36,300 sq. yds. asphalt binder;	
47,900 tons asphalt concrete;	
660 cu. yds. class A Portland cement concrete (structures);	
64,000 lbs. bar reinf. steel (structures);	
364 lin. ft. 8-in. corr. metal pipe;	
370 lin. ft. 18-in. do.;	
1223 lin. ft. 24-in. do.;	
140 lin. ft. 30-in. do.;	
24 lin. ft. 36-in. do.;	
94 lin. ft. corr. metal pipe (clean and relay);	
1750 cu. yds. remove and dispose of Port. cem. conc. in existing pavement and structures;	
2800 bbls. fuel oil (shoulders);	
9.3 miles new property fence;	
1.8 miles move and reset property fences;	
780 lin. ft. laminated timber guard rail;	
4120 lin. ft. move and reset guard rail;	
577 stations finish roadway;	
108 ea. monuments, complete in place.	
State will furnish corrugated metal pipe, spillway assemblies and cast steel frames and covers for drop inlets.	

SANTA BARBARA COUNTY, Cal.—As previously reported, bids will be received by State Highway Commission, December 17, to grade and pave with Portland cement concrete, 2.8 miles between Gaviota and 1 mile north of Las Cruces. Project involves:

9 acres clear and grub right of way;	
107,000 cu. yds. rdwy. excav. without class;	
255,000 sta. yds. overhaul;	
8350 cu. yds. struc. excav.;	
26,500 sq. yds. subgrade for pavement;	
6560 cu. yds. class A Portland cement concrete (pavement);	
1920 cu. yds. class A Portland cement concrete (structures);	
318,700 lbs. bar reinf. steel (pavement and structures);	
570 lin. ft. 18-in. corr. metal pipe;	
480 lin. ft. 24-in. do.;	
60 lin. ft. 30-in. do.;	
123 lin. ft. 48-in. do.;	
274 lin. ft. corr. metal pipe (clean and relay);	

2100 cu. yds. remove and dispose of concrete in existing pavement and structures;

70 cu. yds. cushion course;

2000 tons crusher run base;

160 cu. yds. rubble masonry (retaining wall);

5.7 miles new property fences;

8900 lin. ft. soil timber guard rail;

950 bbls. fuel oil (shoulders);

149 stations finish roadway;

94 ea. monuments, complete in place.

State will furnish corr. metal pipe.

BELMONT, San Mateo Co., Calif.—Construction of a pedestrian underpass at railroad tracks on O'Neill Ave. between Ralston Ave. and Harbor Blvd. was proposed by city council.

BELMONT, San Mateo Co., Cal.—Union Paving Co., Call Bldg., San Francisco, awarded contract at \$136,305 by city council to grade and pave Belle Monti tract in West Belmont.

BUSINESS OPPORTUNITIES

Names and addresses of persons or firms concerned in these opportunities will be furnished on request to Business Opportunity Department, Daily Pacific Builder, 547 Mission St., San Francisco, or phone GARfield 8741.

D-3623—Representatives. Ft. Wayne Ind. Manufacturers of electric refrigerators and oil burners are looking for aggressive young men with some sales experience to act as selling agents for them in this territory. Full details on file.

D-3623—Sales Representative. New York City. Firm interested in establishing in San Francisco a representative for the sale and servicing of electro-chlorinator for swimming pool sterilization.

D-3625—Building Specialty Representation. Los Angeles, Calif. Firm manufacturing a line of built-in building specialties are desirous of making a connection with a building specialty concern in this city.

D-3620—Local Representation. Oakland, Cal. Party interested in securing representation for new electrical specialties to market in the eleven Western states.

D-3617—Manufacturer With Capital. Holland, Mich. Party with patterns, dies, jigs and fixtures interested in locating firm in San Francisco bay district who will take over the manufacture and financing of washing machine.

D-3616—Representation. San Diego, Cal. Party familiar with eastern and middle west trade is interested in contacting local manufacturers looking toward acting as representative in that territory. 31

STATE MANUFACTURERS' AID IN EMPLOYMENT PLEDGED

The California Manufacturers' Association has announced full cooperation with the California State Chamber of Commerce in a business stabilization program as part of a plan to lessen unemployment and stimulate a demand for goods.

Essentials of the program outlined recently by the state chamber of commerce are: Modernize, maintain the fullest employment possible, merchandise aggressively and maintain normal buying.

Every manufacturer and mill owner of California will be appealed to by the two organizations. They are urged specifically to clean up shops, warehouses and stores, overhaul machinery, make necessary repairs and alterations. In industries where it is possible to consider rotation of workers on part-time rather than wholesale layoffs or shutdown.

CANNOT MAKE DELAYED COMPENSATION CLAIM

An injured employee who received compensation based upon the state compensation laws cannot obtain additional payment or damages unless the complaint is filed without undue delay, was the holding in *Murphy v. W. O. Cook Const. Co.*, 285 Pac. 604, says *The Constructor*.

The details are that a man named Murphy was employed as a laborer about a cement mixer operated by a construction company. A gust of wind blew some cement into his eyes which ruined the sight of the right eye within a few hours. Murphy was taken to the hospital where the eye was removed.

The construction company paid Murphy compensation for the loss of one eye based under the provisions of the state compensation laws. Four months later Murphy filed suit to recover damages for injury to his other eye. The court refused to allow additional damages, saying:

"If appellant (Murphy) had made a timely claim for compensation for injury to his left eye, and some award had been made therefor and not paid in full, it might very well be shown by lapse of time and subsequent developments that such award was insufficient and ought to be increased. But no such case is here. Moreover, in this case the award for the loss of the right eye, and for which compensation had been timely demanded, had been fully paid."

VERBAL AGREEMENT TO PAY ACCOUNT BINDING

Ordinarily, a promise to guarantee payment of a contractor's account must be in writing or it is not valid, says *The Constructor*. On the other hand, a verbal agreement to pay another person's account is enforceable. In the former case the one making the guarantee is not the debtor unless the contractor fails to pay, but in the latter instance he is the debtor from the beginning.

In *Harper Co. v. Teate*, 125 So. 21, a materialman furnished building material to a contractor. The owner verbally promised to pay the account. Later the owner argued that he was the contractor's surety and not liable because he did not positively guarantee to pay. The court held the owner liable, explaining, as follows:

"If a materialman, upon the request or by the authority of the owner, furnishes material to a contractor in reliance upon the promise of the owner, express or implied, to pay for it so that the owner becomes a primary debtor and not a mere surety, the materialman is entitled to a lien for the full amount of the debt."

LUMBERMEN'S CLUB ELECTS

At the annual meeting of the Orange County Lumbermen's Club at Fullerton the following directors were elected: J. Jahraus, Laguna Beach; Lumber Co., Laguna Beach; R. N. Nelson, Buena Park Lumber Co., Buena Park; D. E. Liggett, Liggett Lumber Co., Santa Ana; Henry Adams,

Adams-Bowers Lumber Co., Anaheim; Guy Tyler, Barr Lumber Co., Santa Ana; Glenn Merrill, Patten & Davies Lumber Co., Anaheim and Grey Skidmore, Skidmore & Bowers Lumber Co., Downey.

Recent publications of the American Rolling Mill Co., Middletown, Ohio, include a bulletin on suggested A.S.T.M. specifications for open-hearth plates and one describing the cooling and ventilating apparatus in the new Minneapolis Civic Auditorium.

"The Industrial Hose Handbook," a 78-page publication of the Electric Hose & Rubber Co., Wilmington, Del., describes the various types of hose now being manufactured and makes recommendations for proper selection in a large variety of industries.

Nearly 80 per cent of the total imports of oak lumber into the Union of South Africa during the first six months of this year were of American origin, states a report from Assistant Trade Commissioner DuWayne G. Clark at Johannesburg to the lumber division of the Department of Commerce. Indications earlier in the year pointed to the probability that Japanese oak was coming into this market in quantities which were approximately equal to those from the United States. However, during the first six-month period of this year American oak has thoroughly dominated the market. Total receipts of oak during this period were 3,522,000 board feet, of which 3,117,000 were from the United States and \$35,000 from Japan.

GRANFIELD, FARRAR AND CARLIN LOW ON MARIN COUNTY ROAD PROJECT

MARIN COUNTY, Cal.—As previously reported, Granfield, Farrar and Carlin, 67 Hoff Ave., San Francisco, at \$189,633 submitted low bid to State Highway Commission to grade and surface with bituminous macadam, 3 miles of state highway between Alto and Waldo in Marin County. Following is a complete list of unit bids:

- | | | |
|--|---|---|
| (1) 15 st. clear right of way; | (10) 30,850 lbs. bar reinf. steel, struc.; | (19) 4500 tons light riprap; |
| (2) 300,000 cu. yds. rdwy. excavation without class; | (11) 48 lin. ft. 15-in. corr. m'd pipe; | (20) 3.1 miles new property fence; |
| (3) 2,400,000 sta. yds. overhaul; | (12) 626 lin. ft. 18-in. do; | (21) 1222 lin. ft. laminated timber guard rail; |
| (4) 3980 cu. yds. strc. excav.; | (13) 70 lin. ft. 24-in. do; | (22) 241 timber guide posts; |
| (5) 18,900 tons crusher run base; | (14) 48 lin. ft. 30-in. do; | (23) 161 sta. finish roadway; |
| (6) 7500 tons broken stone (bitum. macadam surface); | (15) 2104 lin. ft. 8-in. perforated metal pipe underdrains; | (24) 71 each, monuments complete in place. |
| (7) 390 tons emulsified asphalt; | (16) 11,880 lin. ft. furnish untreated Douglas fir piles; | |
| (8) 495 bbls. light fuel oil; | (17) 188 each, drive Douglas fir piles; | |
| (9) 440 cu. yds. class A Port. cement concrete (struc.); | (18) 435 sq. ft. sheet piling; | |

The State will furnish corrugated metal pipe, cast steel frames and covers for drop inlets and flood gates.

- The bidders were:
- | | | |
|---|--|--|
| (A) Granfield, Farrar & Carlin, S. F., \$189,633. | (G) Lewis Const. Co., L. A., \$204,012. | (S) 825. |
| (B) Peninsula Paving Co., S. F. \$189,725. | (H) Healy-Tibbitts Const. Co., S. F., \$208,850. | (T) \$239,635. |
| (C) E. C. Coates, Sacramento, \$194,092 | (I) R. G. LeTorneau, Stockton, \$217,981. | (U) G. F. Atkinson, Portland, \$253,202. |
| (D) M. J. Bevanda, Stockton, \$198,068. | (J) George Pollock Co., Sacramento, \$224,767. | (V) Skells & Graham, Roseville, \$259,128. |
| (E) H. W. Rohl, Los Angeles, \$198,414. | (K) J. F. Knapp, Oakland, \$225,257. | (W) W. H. Hauser, Oakland, \$262,724 |
| (F) Fredrickson & Watson, Oakland, \$201,686. | (L) O. A. Lindberg, Stockton, \$236,981. | |

The unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)
(1)	\$ 60.00	\$110.00	\$60.00	\$50.00	\$50.00	\$30.00	\$30.00	\$10.00	\$34.00	\$25.00	\$25.00	\$35.00	\$100.00	\$50.00	\$70.00	\$100.00
(2) .....	.28	.266	.30	.32	.30	.32	.35	.31	.32	.36	.375	.37	.35	.47	.45	.12
(3) .....	.....	.005	.005	.004	.005	.005	.005	.005	.005	.005	.005	.075	.01	.005	.005	.01
(4)	1.00	.90	1.00	1.00	1.00	1.00	1.00	1.50	1.00	1.00	1.50	1.50	.75	.90	1.00	2.00
(5)	1.75	1.70	1.66	1.50	1.70	1.55	1.55	2.00	2.10	1.90	1.75	1.90	1.55	1.80	2.00	1.85
(6)	2.50	2.50	2.10	2.10	2.00	2.40	2.40	2.30	2.40	2.80	2.25	2.85	2.45	2.10	2.55	2.60
(7)	25.00	22.00	22.00	21.00	23.00	24.00	20.00	20.00	22.00	20.00	22.00	20.00	23.00	23.00	23.00	21.00
(8)	2.00	1.60	2.00	2.00	2.20	1.90	1.50	1.50	2.00	2.30	2.30	2.00	1.85	2.00	1.95	1.70
(9)	20.00	20.00	24.00	19.00	25.00	18.00	20.00	23.00	22.00	20.00	22.00	25.00	22.50	28.00	23.00	20.00
(10) .....	.01	.05	.045	.05	.05	.04	.045	.05	.04	.07	.04	.05	.05	.05	.045	.05
(11) .....	.50	.50	.50	.50	.50	.50	.50	.45	.50	.50	.50	.50	.50	.50	.75	.45
(12) .....	.50	.50	.60	.50	.50	.50	.50	.55	.60	.50	.60	.50	.50	.60	.85	.50
(13) .....	.75	.50	.70	.75	1.00	.50	.50	.70	.75	.75	.70	.50	1.00	.75	1.00	.70
(14) .....	.75	.50	1.10	1.00	1.00	.70	.50	.90	1.00	1.00	.80	.75	1.00	1.00	1.25	1.00
(15)	1.50	1.50	1.40	1.50	1.20	1.30	1.25	1.15	1.25	1.50	1.25	.50	1.40	1.25	1.70	2.00
(16) .....	.27	.27	.30	.35	.30	.27	.10	.25	.29	.30	.25	.30	.25	.27	.29	.25
(17)	24.50	11.00	12.00	16.00	20.00	8.50	20.00	15.00	28.00	20.00	20.00	12.00	15.00	20.00	16.50	28.00
(18) .....	.30	.60	.20	.35	.50	.25	.40	.25	.18	.50	.40	.50	.25	.50	.25	.15
(19) .....	.75	2.20	1.60	1.50	1.50	2.30	1.70	2.00	2.25	1.50	2.50	2.35	3.50	1.50	3.00	2.50
(20)	400.00	500.00	500.00	500.00	500.00	400.00	450.00	550.00	475.00	350.00	400.00	450.00	500.00	500.00	425.00	500.00
(21) .....	.....	.95	1.00	1.00	1.00	.....	.....	.75	1.00	1.00	1.00	.....	1.00	.75	.75	1.00
(22)	2.00	2.50	2.10	3.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.50	2.50	2.05	2.85	1.50
(23)	4.00	5.00	5.00	4.00	5.00	5.00	5.00	5.00	10.00	10.00	5.00	6.00	5.00	10.00	5.00	10.00
(24)	3.00	3.00	3.00	3.00	3.00	2.50	2.00	2.00	3.00	4.00	3.00	3.00	3.00	3.00	3.00	3.00

Contracts Awarded

Liens, Acceptances, Etc.

BUILDING PERMITS

San Francisco County

No.	Owner	Contractor	Amt.
1508	American	Lindgren	5000
1509	Doelger	Owner	40000
1510	Grill	Hotchner	1500
1511	Hansell	Owner	4000
1512	Isaacson	Owner	3000
1513	Props	Owner	135000
1514	Shaffran	Owner	1800
1515	Trevarrow	Herzig	8000
1516	Dellwig	Thulin	1335
1517	Rasmussen	Owner	30000
1518	Stoneson	Owner	24000
1519	Doelger	Owner	8000
1520	Johnson	Owner	7000
1521	Mager	Owner	6000
1522	Cox	Brodie	1200
1523	Ealliet	Owner	4500
1524	Kavanagh	Owner	3500
1525	Proctor	Castle	9000
1526	Bay View	Owner	6000
1527	Arnott	Owner	5000
1528	Pichthall	Thulin	1850
1529	Mihalovitz	Bendon	5000
1530	Lardner	Moore	1600
1531	Illinois	Coleman	3500
1532	Elerlevich	Amatore	6000
1533	Standard	Lindgren	1000
1534	Peterson	Owner	3500
1535	Haynes	Callahan	1000

ALTERATIONS

(1508) SE THIRD, 20th and Illinois Sts.; alterations to connect two existing buildings.

Owner—American Can Co., premises.
Architect—Not Given.
Contractor—Lindgren and Swinerton, Inc., 225 Bush Street.
\$5000

DWELLINGS

(1509) W 31st AVE. 75 N Lawton St.; ten 1-story and basement frame dwellings.

Owner and Builder—H. Doelger, 1391 Eighth Ave.
Architect—Not Given. each \$4000

SIGN

(1510) 45 TURK ST.; electric sign.
Owner—Bay City Grill, 45 Turk St.
Architect—Not Given.
Contractor—Hotchner Pros., 45 Turk Street.
\$1500

ALTERATIONS

(1511) 1351 JACKSON ST.; alterations to move dwelling on lot.
Owner—G. Hansell, 506 29th Ave.
Architect—Not Given. \$4000

DWELLING

(1512) SW MANGELS 125 W Forester; 1-story and basement frame dwelling.

Owner—F. Isaacson, 643 Joost Ave.
Architect—Not Given. \$3000

APARTMENTS

(1513) SE GOUGH and Sacramento; six-story class C with class B basement (42) apts.
Owner—W. Props, 1801 California St.
Architect—Irvine & Ebbets, Call Bldg.
\$135,000

ALTERATIONS

(1514) SW 20th AVE. and Lincoln Way; alterations to dwelling, underpinning, etc.

Owner—J. Shaffran, 515 18th Ave.
Architect—Not Given. \$1800

DWELLING

(1515) N SAN ANSELMO 100 East Santa Clara; two-story and base-

ment frame dwelling.

Owner—J. Trevarrow, 230 Santa Anna Plans by D. E. Jaekle, Call Bldg.
Contractor—A. J. Herzig, 635 Victoria.
\$8000

REPAIRS

(1516) 164 NINTH AVE., repair fire damages.

Owner—E. J. Dellwig, % 60 Brady St.
Architect—Not Given.
Contractor—A. L. Thulin, 60 Brady St.
\$1335

APARTMENTS

(1517) NE SCOTT and Beach; three-story and basement frame (12) apartments.

Owner—V. Rasmussen, NW Divisadero and Jefferson.
Architect—Irvine & Ebbets, Call Bldg.
\$30,000

DWELLINGS

(1518) E CASITAS 56 N Hazelwood; six 1-story and basement frame dwellings.

Owner and Builders—Stoneson Bros. & Thorinson, 279 Yerba Buena Avenue.
Architect—C. F. Strothoff, 2274 15th Street. each \$4000

DWELLINGS

(1519) E 22nd AVE. 50 N Lawton; two 1-story and basement frame dwellings.

Owner—H. Doelger, 1391 8th Ave.
Architect—Not Given. \$8000

FACTORY

(1520) W POTRERO 115 N 15th St.; one-story class C factory.

Owner—L. Johnson, 729 Occidental Avenue.
Architect—Not Given. \$7000

DWELLINGS

(1521) W 12th AVE. 100 N Taraval; two 1-story and basement frame dwellings.

Owner—J. Mager & Son, 1359 Fourth Avenue.
Plans by Owner. \$6000

ALTERATIONS

(1522) 136 JORDAN AVE.; alterations to dwelling.

Owner—Mrs. Cox, 136 Jordan Ave.
Architect—Not Given.
Contractor—T. Brodie Co., 1281 Mission St. \$1200

DWELLING

(1523) SE ROOSEVELT 122 SW Levant; 2-story and basement frame dwelling.

Owner—F. Ealliet, 740 Hunter-Dulin Building.
Architect—Not Given. \$4500

FLATS

(1524) E RETIRO 50 N Beach; two-story and basement frame (two) flats.

Owner—D. S. Kavanagh, 1121 Ordway St., Berkeley.
Architect—Not Given. \$8500

DWELLING

(1525) SE DARIEN and Manor; two-story and basement frame dwelling.

Owner—P. R. Proctor, 830 Market St.
Architect—E. M. Sharpe, 525 Market.
Contractor—Castle Bldg. Co., 830 Market St. \$9000

DWELLINGS

(1526) W GATES 50 N Ogden St.; two 1-story and basement frame dwellings.

Owner—Bay View Realty Co., 4922 Third St.
Plans by Owner. each \$3000

DWELLING

(1527) NW RIVERA and 15th Ave.; one-story and basement frame dwelling.

Owner and Builder—J. A. Arnott, 633 Taraval Street.
Architect—Not Given. \$5000

ALTERATIONS

(1531) NE 15th & FOLSOM Streets; alterations to enlarge sand bins.

Owner—Illinois Pacific Coast Glass Co., 15th and Folsom Sts.
Plans by Stephens Adamson Co., Los Angeles.
Contractor—D. Coleman, care owner. \$3500

STORE AND DWELLING

(1532) NW MISSION 113 NE Geneva; one-story and basement store and dwelling.

Owner—M. Elerlevich, 1144 York St.
Architect—Not Given.
Contractor—F. Amatore, 1392A Hampshire St. \$6000

ALTERATIONS

(1533) 200 BUSH ST.; alterations to wreck vault and restore office.

Owner—Standard Oil Co., 225 Bush St.
Architect—G. W. Kelham, 315 Montgomery St.
Contractor—Lindgren and Swinerton, Inc., 625 Standard Oil Bldg. \$1000

DWELLING

(1534) N MUNICH 235 W Cordova; one-story and basement frame dwelling.

Owner—H. W. Peterson, 912 Geneva.
Architect—Not Given. \$3500

ALTERATIONS

(1535) 4108 MORAGA ST.; alterations to underpin dwelling.

Owner—F. and H. Haynes, 4108 Moraga Street.
Architect—Not Given.
Contractor—J. Callaghan, 900 Clayton St. \$1000

REPAIRS

(1536) 321 FREMONT ST.; repair fire damage.

Owner—M. Pichthall, 60 Brady St.
Architect—Not Given.
Contractor—A. L. Thulin, 60 Brady St. \$1850

CAPITAL CITY TILE COMPANY

J. C. PALEN

Manager

914 Seventh Street

Sacramento - - - California

DWELLING

(1529) E 16th AVE. 100 S Taraval; one-story and basement frame dwelling.
Owner—C. A. Mihailovits.
Architect—Not Given.
Contractor—G. O. Bendon, 2266 29th Avenue. \$5000

ALTERATIONS

(1530) 2638 LORAIN ST.; alterations to (3) apartments.
Owner—J. Lardner, 58 Sutter St.
Architect—Not Given.
Contractor—Moore & Madsen, 557 Market St. \$1500

BUILDING CONTRACTS

San Francisco County

No.	Owner	Contractor	Amt.
235	Kress	Home	21624
236	Kress	Nelson	2850
237	Roman	Paganini	42634
238	Mihailovitz	Bendon	6850
239	Rosenberg	Denbelle	4800
240	Harris	Hansell	6329
241	Granicher	Papenhausen	11888

FIXTURES

(235) 2716 MISSION ST.; store fixtures for salesroom and stockroom
Owner—S. H. Kress & Co.
Architect—Not Given.
Contractor—Home Mfg. Co., Inc., 552 Brannan St.
Filed Nov. 20, '30. Dated Nov. 7, '30.
Progress payments of.....75%
Usual 35 days.....25%
TOTAL COST, \$21,624
Bond, 21,624. Sureties, New Amsterdam Casualty Co. Forfeit, \$50. Limit, March 7, 1931.

(236) HEATING installation on the above.
Contractor—Jas. A. Nelson, Inc., 10th and Howard Sts.

Filed Nov. 20, '30. Dated Nov. 6, '30.
Progress payments of.....75%
Usual 35 days.....25%
TOTAL COST, \$2350
Bond, \$2850. Sureties, U. S. Fidelity & Guarantee Co. Forfeit, \$15. Limit, Jan. 20, '31.

CONVENT

(237) E ASHBURY 265-3 N Waller; all work for construction of St. Agnes Convent and addition to school.

Owner—The Roman Catholic Archbishop of San Francisco, 1100 Franklin St.

Architect—H. A. Minton, Underwood Bldg.
Contractor—David Paganini, 519 California St.

Filed Nov. 21, '30. Dated Nov. 15, '30.
Monthly payments of.....75%
Usual 35 days.....25%

TOTAL COST, \$42,634
Bond: Materials, \$42,634; Owner, \$4,263.40. Sureties, The Actina Casualty & Surety Co. Limit, May 1, '31. Plans and Spec. filed.

RESIDENCE

(238) E 16th AVE. 100 S Taraval S 25 x E 120 OL 6850; all work on 2-story and basement frame residence.

Owner—Carl A. Mihailovitz, 133 Lobos St.
Architect—Geo. O. Bendon, 2266 29th Avenue.

Contractor—Geo. O. Bendon, 2266 29th Avenue.

Filed Nov. 22, '30. Dated Nov. 20, '30.
Deed of trust for.....\$ 600.00
Roof on.....1515.62
Brown coated.....1515.62
Completed.....1515.63
Usual 35 days.....1515.63
TOTAL COST, \$6850

Limit, 120 days. Plans and Spec. filed.

GRADING & STREET WORK

(239) BLOCK 5425 bounded by Carroll, Quint and Thornton; grading and street work.

Owner—Meyer Rosenberg, 1755 San Bruno Ave.
Architect—Not Given.

Contractor—Paul E. Denbelle, 548 7th Street.

Filed Nov. 24, '30. Dated Nov. 12, '30.
Payments not given.

TOTAL COST, \$1800

ALTERATIONS

(240) S JACKSON ST. 206-3 West Leavenworth St., Nos. 1351-53-55 Jackson St.; all work for moving house and altering to two-story and basement frame flats.

Owner—Leo Harris, 1734 Gough St.
Architect—Not Given.

Contractor—Geo. H. Hansell, 506 29th Avenue.

Filed Nov. 26, '30. Dated Nov. 25, '30.
Rough plumbing in.....\$1707.25
Plastered.....1707.25
Completed and accepted.....1707.25
Usual 35 days.....1707.25
TOTAL COST, \$6829.20

Forfeit, \$5. Limit, 60 days. Plans and Spec. filed.

BUILDING

(241) LOT 2 BLOCK 3, St. Francis Wood; all work on 2-story and basement frame building.

Owners—Irving H. and Hilda A. Granicher, 725 33rd Ave.

Architect—Masten and Hurd, Sherve Building.

Contractor—Henry Papenhausen, 595 Victoria St.

Filed Nov. 26, '30. Dated Nov. 17, '30.
Framework completed.....25%
Brown coated.....25%
Completed and accepted.....25%
Usual 35 days.....25%
TOTAL COST, \$11,888

Bond, \$5944. Sureties, C. W. Higgins, Harry Gaetlin. Limit, 90 days. Plans and Spec. filed.

COMPLETION NOTICES

San Francisco County

Recorded Accepted
Nov. 25, 1930—E RETIRO WAY 75 N Beach N 25x E 87.50 ptn Marina Gardens. Donald S Kavanagh to whom it may concern.....Nov. 19, 1930
Nov. 25, 1930—ON COSMO PLACE bet. Sutter and Post and Jones and Taylor 90 E Jones N Cosmo Place 31. John R Savory to Van-nucci Bros.....Nov. 24, 1930

Nov. 24, 1930—S BALBOA ST E 21st Ave E 30 x S 100. M P Storheim to whom it may concern.....November 24, 1930

Nov. 24, 1930—NE HOLYOKE 225 NW Silliman NW 25 x NE 120. J and C Breheny to C H Westlund.....November 15, 1930

Nov. 22, 1930—E EXETER 275 S Paul Ave. J Finegan to whom it may concern.....Nov. 20, 1930

Nov. 22, 1930—SW POPE 150 and 175 NW Morse Bk 6466 Bernal Hd Assn. V Bjorkman to whom it may concern.....Nov. 22, 1930

Nov. 22, 1930—E LONDON 25 S France. E & J Pernas to J P Cuneo & Son.....Nov. 21, 1930

Nov. 22, 1930—SW BAKER AND Bay 9353-6. Nislo and P Gulest to Y Pera.....Nov. 22, 1930

Nov. 21, 1930—LOT 41 BLK. 2961-A map Sub No 4 Miraloma Park. Meyer Bros to whom it may concern.....November 18, 1930

Nov. 21, 1930—E 39th AVE 217-6 S Clement St. Mary A Worswick and Ida M Stuckel to A F and C W Matlock.....November 17, 1930

Nov. 21, 1930—E FAXON AVE 300 N Holloway Ave N 50 x E 112-6 Bk 18, Lakeview. Benj F and Ada T Hinkel to whom it may concern.....November 20, 1930

Nov. 21, 1930—NW 11th AND HOWARD STS. Goodrich Silvertown, Inc to Lindgren & Swinerton, Inc.....November 15, 1930

Nov. 20, 1930—E VALENCIA ST E5 N 25th E 117-6 x N 75. M E Anderson to Magnusson & Peterson.....November 18, 1930
Nov. 20, 1930—E 18th AVE 49-2 S Quintara 30x120. G J Elkington & Sons to whom it may concern.....November 20, 1930

Nov. 20, 1930—SE MONTEREY Blvd and Genessee S 100 x E 100. General Petroleum Corp to Gauley & Yount.....November 11, 1930

Nov. 20, 1930—E W HUMBOLDT and Kansas N 100 x W 25. R Kuhl to E J Smith.....November 20, 1930

Nov. 19, 1930—N HEARST AVE 100 E Detroit 25x112. Ray H Beaudette to Gilbert L Plov. Nov. 19, 1930

LIENS FILED

San Francisco County

Nov. 20, 1930—E NINTH AVE 125 N Noriega N 25 x E 150. John Shlimmon vs H S Klingspor.....\$170
Nov. 20, 1930—E CHURCH ST 24-10 N 23rd St N 24-10 x E 70. F Griffin vs I Dettmers, A I Alzamora and B A Pelletier.....\$375.50
Nov. 19, 1930—E NINTH AVE 125 N Noriega N 25 x E 120. H A Norman as F G Norman & Sons vs H S Klingspor.....\$11.89
Nov. 19, 1930—E NINTH AVE 125 N Noriega N 25 x E 120. I Epp vs H S Klingspor.....\$280

RELEASE OF LIENS

San Francisco County

Recorded	Amount
Nov. 24, 1930—W 37th AVE 300 S Lincoln Way S 25 x AVE 20 OL 636. Fortman's Planing Mill; Bernard Pegel, \$96, to Mabel E Kennedy.....	
Nov. 19, 1930—NE YALE and Silliman N 50 x E 95. T D Harney to I A Feldman.....	\$112.50

BUILDING PERMITS

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
1433	De Sanno	Porter	10000
1434	Lightbody	Owner	2000
1435	Lanyavechia	Pitta	3000
1436	Marston	Livingston	2000
1437	Anderson	Anderson	3985
1438	Kennedy	Owner	7500
1439	Minney	Lynn	3000
1440	Thomas	Nylander	4500
1441	King	Swanstrom	7185
1442	Felt	Owner	6000
1443	Breuner	Courtright	12390
1444	Grubb	Owner	8400
1445	Gizdick	Watson	4300
1446	Third Church	Cedarborg	22100
(1447)	Adolfson	Nelson	5000
1448	Parr	Neon	2000
1449	Hancock	Independent	1250
1450	Hinch	Berg	2350
1451	Sleep	Johnston	2750
1452	Income	Hopper	1350
1453	Lurie	Cahill	16000
1454	Garcia	Coburn	1100
1455	Silvia	Owner	1500

FOUNDRY

(1433) 1919 PERALTA ST. OAKLAND; one-story steel foundry & machine shop.

Owner—F. L. De Sanno, 4437 E 10th St., Oakland.

Architect—Not Given.

Contractor—R. C. Porter & Co., 356 Adeline St., Oakland.

\$10,000

DWELLING

(1434) E 62nd AVE. opp Mauritania, OAKLAND; one-story four-room dwelling.

Owner & Builder—P. Lightbody, 3243 63rd Ave., Oakland.

Architect—Not Given. \$2000

RESIDENCE

(1435) NO. 1314 BLAKE ST., **BERKELEY**. One-story five-room 1-family frame residence.
Owner—Frank Lanyavechia, 912 21st St., Oakland.

Architect—Not Given.
Contractor—Mitta & Venedi, 2221 Browning St., Berkeley. \$3600

ALTERATIONS

(1436) NO. 1512 ARCH ST., **BERKELEY**, Alterations.
Owner—W. H. Marston Co., 2333 Vine St., Berkeley.

Architect—Not Given.
Contractor—W. Livingston & Son, 1152 Euclid Ave., Berkeley. \$2000

DWELLING & STORE

(1437) 1726 22nd AVE., **OAKLAND**; two-story five-room dwelling and store.

Owner—Edna R. Anderson, 1720 22nd Ave., Oakland.
Architect—Not Given.
Contractor—A. F. Anderson, 1093 Longridge Road, Oakland. \$3985

DWELLING

(1438) S STONEWALL ROAD 250 ft. from end of road, **OAKLAND**; 2-story 6-room dwelling.

Owner and Builder—H. H. Kennedy, 2912 Claremont Ave., Berkeley.
Architect—Not Given. \$7500

DWELLING

(1439) 3851 FOREST HILL AVENUE **OAKLAND**; one-story five-room dwelling and 1-story garage.

Owner—Minney Company, \$200 Foot-hill Blvd., Oakland.
Architect—Not Given.
Contractor—C. D. Lyon, 6501 Buena Ventura Ave., Oakland. \$3000

DWELLING

(1440) NO. 887 COLLIER ST., **SAN LEANDRO**. Six-room frame and stucco dwelling with tile roof.

Owner—C. H. Thomas.
Architect—F. T. Wood Co., by L. H. Cox, 19th and Franklin Sts., Oakland.
Contractor—Nylander Bros., 633 Montclare Ave., Oakland. \$4500

ALTERATIONS

(1441) SE TWELFTH and HARRISON STS., **OAKLAND**, Alterations.
Owner—The King Estate.

Architect—Not Given.
Contractor—Geo. Swannstrom, 1723 Webster St., Oakland. \$7185

RESIDENCE

(1442) NO. 824 SAN DIEGO AVE., **BERKELEY**. Two-story 7-room 1-family frame residence.

Owner—P. H. Felt, 2050 McGee Ave., Berkeley.
Architect—H. Heose.

RESIDENCE

(1443) NO. 204 REGUA ROAD, **PIEDMONT**. Two-story 10-room frame residence and garage.

Owner—R. W. Brenner, 4 Craig Ave., Piedmont.

Architect—Miller & Warnecke, Financial Bldg., Oakland.

Contractor—T. D. Courtwright, 5098 Mania Ave., Oakland. \$12,990

DWELLINGS

(1444) 10721-27 FREED AVE., **OAKLAND**; two 1-story 5-room dwellings and garages.

Owner and Builder—Jas B. Grubb, 2012 38th Ave., Oakland.
Architect—Not Given. \$8400

DWELLING

(1445) SE COR. FAIRFAX and High STS., **OAKLAND**; one-story two-room dwelling and store.

Owner—Jerome Gizdick.

Architect—Not Given.
Contractor—Wm. Watson, 4750 Mel-don Ave., Oakland. \$4300

ADDITION

(1446) SE COR. FRUITVALE AVE. and E 17th St., **OAKLAND**; concrete addition.

Owner—Third Church of Christ Scientist, E 17th St. and Fruitvale Ave., Oakland.

Architect—H. H. Gutterson, 526 Powell St., San Francisco.
Contractor—A. Cedarborg, 1455 Excelsior Ave., Oakland. \$22,100

DWELLING

(1447) NO. 1528 VERSAILLES AVE., **BERKELEY**. One-story 5-room frame and stucco dwelling.

Owner—John Adolfsen, San Francisco
Architect—Owner.
Contractor—Adrian Nelson, Alameda Ave., Alameda. \$5000

SIGNS

(1448) E ST., Parr Terminal, **OAKLAND**; roof sign and electric sign.

Owner—Parr Terminal Co., Los Angeles.
Architect—Not Given.
Contractor—Q. R. S. Neon Corp., 306 7th St., San Francisco. \$2000

SERVICE STATION

(1449) SW COR. HOPKINS and Stuart STS., **OAKLAND**; one-story steel service station and one-story steel service building.

Owner—Hancock Oil Co., 7th and Cypress STS., Oakland.
Architect—Not Given.
Contractor—Independent Iron Works, 1824 Chase St., Oakland. \$1250

RESIDENCE

(1450) NO. 2300 CALIFORNIA ST., **BERKELEY**. One-story 5-room 1-family frame residence.

Owner—C. M. Hinch, 393 Bellevue Ave., Berkeley.
Architect—Flagg & Hyde.
Contractor—Edward Berg, 629 56th St., Oakland. \$2950

SERVICE STATION

(1451) NV COR. 55th and Camden STS., **OAKLAND**; one-story steel service station.

Owner—Leonard C. Sleep.
Architect—Not Given.
Contractor—A. R. Johnston, 12 Wildwood Ave., Oakland. \$2750

ALTERATIONS

(1452) S 17th St., 100 W Telegraph Ave., **OAKLAND**; alterations.

Owner—Income Properties, Inc.
Architect—Not Given.
Contractor—Alfred J. Hopper, 1769 Pleasant Valley Ave., Oakland. \$1350

FACTORY

(1453) SV COR. 18th and Peralta STS., **OAKLAND**; one-story concrete factory.

Owner—The Lurie Co., 333 Montgomery St., San Francisco.
Architect—W. D. Peugh and O'Brien Bros., 333 Montgomery St., San Francisco.

Contractor—Chill Bros., 206 Sansome St., San Francisco. \$16,000

REPAIRS

(1454) 4152 HOWE ST., **OAKLAND**; fire repairs.

Owner—Mrs. E. Garcia.
Architect—Not Given.
Contractor—Ira W. Coburn, 2048 Market St., San Francisco. \$1100

DWELLING

(1455) E 88th AVE. 40 S Holly St., **OAKLAND**; two-story three-room dwelling.

Owner and Builder—Joe Silva, 1464 88th Ave., Oakland.
Architect—Not Given. \$1500

BUILDING CONTRACTS

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
141	Geldert	Devight	5486

STORE

(141) LOT 7 BLK A, Regents Park No 3, Berkeley; general construction on 1-story store building.

Owner—W. D. and Lucile Geldert, 24 Panoramic, Berkeley.

Plans by Lessees.
Contractor—Victor Devight, 1823 Mill via St., Berkeley.

Lessees—MacMarr Stores, Ltd., 5725 E 14th St., Oakland.

Filed Nov. 20, '30. Dated Nov. 13, '30.
When roof is on.....25%
When brown coated.....25%
When completed.....25%
Usual 55 days.....

TOTAL COST, \$5486
Limit, 45 days. Plans and Spec. filed.

BOOKSTACKS

(142) LIFE SCIENCE BLDG., Campus of the University of California, Berkeley; installing bookstacks in Life Science Bldg.

Owner—The Regents of the University of California, Berkeley.

Architect—W. P. Stephenson, Dept. of Grounds and Bldgs., University of California, Berkeley.

Contractor—J. L. Davidson Co., Ltd., 632 Mateo St., Los Angeles.

Filed Nov. 24, '30. Dated Nov. 17, '30.
On completion.....75%
Usual 35 days.....25%

TOTAL COST, \$8616
Bond: Labor and Materials, \$4350; Performance, \$4250. Sureties, National Surety Co., of N. Y. and N. J., \$50 per day. Limit, 70 days. Plans and Spec. filed.

COMPLETION NOTICES

Alameda County

Recorded	Accepted
Nov 19, 1930—NE LINE PENNIMAN AVE 153-16 ft SE of Eastman Ave	

Oakland, J P Smith vs Ellen Roderick, also known as Ellen Bean \$37

Nov 19, 1930—2420 VIRGINIA ST. Berkeley, C & R Sheet Metal Works vs C G & Ethel M Tweed, and Henry E Tweed \$825

Nov 19, 1930—NV SAN PABLO AVE and 45th St, Oakland, Standard Fence Co vs F W and K V Ellis, C E Pugh \$49.30

Nov 22, 1930—N FRANCIS ST 100 E of Nielson St, Albany, Mary J and Albert J Bold to whom it may concern \$100

Nov 22, 1930—LOT 15, Avenue Terrace, Oakland, Andrew Fleming to whom it may concern \$200

Nov 21, 1930—LOTS 25 and 26 BLK E, amended map of the Christiana Tract, Albany, E Reininghaus to whom it may concern \$100

Nov 20, 1930—1643-45 SCENIC AVE. Berkeley Milton S Bonds to whom it may concern \$100

Nov 19, 1930—LOT 16 BLK 2, Berkeley Heights, Berkeley, Ruth J Lovett to Sam Steindel \$100

Nov 19, 1930—1650 TRENTLE GLEN Road, Oakland, Pendleton and Frank to whom it may concern \$100

Nov 25, 1930—SEVENTH and Cedar St Crossing, Oakland, Southern Pacific Co to Hutchinson Company \$100

November 22, 1930

Nov 25, 1930—OAKLAND, Alameda and Berkeley. Southern Pacific Co to Hutchinson Company.....
 Nov 25, 1930—November 22, 1930
 Nov 24, 1930—LOT 7, 2, Ethel M and Henry E Tweed, Oakland, 145 El Camino Real, San Mateo. \$142.27
 Nov 25, 1930—E NINTH AVE 125 N Noriega N 25 x E 120. The Merced Clay Products Co Ltd vs H S Klingspor..... \$34.50

RELEASE OF LIENS

Alameda County

Recorded	Amount
Nov 22, 1930—NW COR 45th and San Pablo Ave, Oakland. Standard Fence Co to F W and K V Ellis.....	\$19.36
Nov 22, 1930—17N LOT 4 BLK 25 Melrose Hgts, Oakland. Churchhill Tile Co to Harry M and Clara M Hart, J J Walsh.....	\$74.53
Nov 22, 1930—LOT 34, No 1 Echo Tract, Oakland. Ottilla Brischner to John Valance. Weeks Const Co Ltd and R H Weeks.....	\$135.50
Nov 20, 1930—W LINE THIRD AVE 100 ft N of East 15th St, Oakland. Halpern's Sheet Metal Wks to J F and Nellie Holm, H L Robertson.....	\$317.25
Nov 26, 1930—NE 60 FT of LOT 30 BLK 2, Thousand Oaks Heights, Berkeley. Al M Fearey to E R Converse.....	\$122.50
Nov 26, 1930—LOT 12, Cogshall Tract, Oakland. Al M Fearey to Sullivan Garfinkel, C E Pugh.....	\$122.50
Nov 26, 1930—LOT 365 BLOCK 7, Fernside Tract, Alameda. Markus Hardware Co to H C and Hans C Hansen and Henry Schwab.....	\$47.20

BUILDING CONTRACTS

SAN MATEO COUNTY

ALTERATIONS

NO. 408 WINCHESTER ST. being SW
 Winchester St. and Evergreen Ave.,
 Daly City. All work for alterations
 and addition to frame and
 stucco residence and garage
 owner—Silvio A. Landini et al, Prem.
 Architect—Not Given.
 Contractor—Fred Warden, 1675 8th
 Ave., San Francisco.
 Filed Nov. 17, '30. Dated Oct. 30, '30.
 Roughed in.....\$64.50
 Ready for lathing.....64.50
 Completed.....64.50
 Usual 35 days.....64.50
 TOTAL COST, \$2590.00
 Bond, \$1300. Surties, Charles Monson and Ture Olson. Limit, 50 calendar days. Forfeit, none. Plans and specifications filed.

BUILDING PERMITS

SAN MATEO

DWELLING, 6-room, \$4000; LOT 5
 Blk 5, Palm Ave., San Mateo;
 owner, C. W. Parsons, 229 2nd
 Ave.; contractor, P. D. Johnson,
 854 Jefferson Ct., San Mateo.
 FIRE repairs, \$2700; Lot 20, No. 1028
 Laurel Ave., San Mateo; owner,
 Mrs. Boyver, Premises; contrac-

tor, Ira W. Coburn, Hearst Bldg.,
 San Francisco.
 RESIDENCE, \$10,000; Lot 5 Blk 15.
 No. 447 Fairfax Ave., San Mateo;
 owner, J. F. Emmert, Russ Bldg.,
 San Francisco; contractor, E. D.
 Soward.
 RESIDENCE, \$9000; Lot 5 Blk 10.
 Franklin St., San Mateo; owner,
 and contractor, Longfield & Glund,
 145 El Camino Real, San Mateo.
 BUNGALOW, \$5000; Lot 8 Blk 21, So.
 Humboldt St., San Mateo; owner,
 W. Eastice, 210 S-Fremont St.,
 San Mateo; contractor, Frank
 Ferrea, 712 5th Ave., San Mateo.
 BUNGALOW, \$4000; Lot 59, No. 819
 N-Clement St., San Mateo;
 owner, Joseph C. Boida; contrac-
 tor, Daniel C. McDonald, 2020 E-
 21st St., Oakland. \$4000

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded	Accepted
Nov. 19, 1930—LOT 84, Peninsula Manor, San Mateo. Carlo Gran-nasi to Joseph Lee et al. Oct. 30, 1930	
Nov. 19, 1930—LOTS 24 AND 25 BLK 4, Central Park, San Mateo. Char-lotte Paul Bauer to C. M. Hinds.....	Nov. 18, 1930
Nov. 19, 1930—LOT 7, Barney Park San Mateo. Catherine Conway to whom it may concern.....	Nov. 18, 1930
Nov. 19, 1930—LOT 20 BLK 7, Vista Grande. Filomeno Facelitti to Carl Carlsen.....	Nov. 12, 1930
Nov. 20, 1930—PART LOTS 6 AND 7 BLK 16, Lomita Park. W G Swain to W G Swain.....	Nov. 14, 1930
Nov. 20, 1930—LOT 13 BLK 20, Mil-brae Highlands. Elias Vigen to whom it may concern.....	Nov. 20, 1930
Nov. 20, 1930—LOT 20 BLK 27, Mil-brae Highlands. Leo O Kittellwell to whom it may concern.....	Nov. 21, 1930
Nov. 20, 1930—NW ARCH AND Whipple Sts., Redwood City. Miss Sue G Van Osten to A C Heald.....	Nov. 19, 1930
Nov. 17, 1930—LOT 22 BLK 3, Jef-ferson Park, San Mateo. Castle Bldg. Co. to Henry Horn.....	Nov. 10, 1930
Nov. 17, 1930—PART LOT 39 BLK 117, South San Francisco. Rosie Price to A J Tole.....	Nov. 15, 1930
Nov. 17, 1930—LOT 1 BLK 9, Eagle Hill. Richard H Sanderson to Harry C Yates.....	Nov. 17, 1930
Nov. 17, 1930—PART LOTS 67 TO 71, Inc. Blk 8, North Fair Oaks. Bert Weiss to whom it may concern.....	Nov. 10, 1930
Nov. 17, 1930—COLLEGE PARK. Walter S Johnson to whom it may concern.....	Nov. 15, 1930
Nov. 17, 1930—LOT 10 BLK 2, Lo-mita Park. William Johnson to Frank C Grisz.....	Nov. 15, 1930
Nov. 18, 1930—PART LOT 16 BLK 10, East San Mateo. J E Coaksey to whom it may concern.....	Nov. 14, 1930
Nov. 18, 1930—LOTS 20 AND 21 Blk 4, San Bruno. B J Rodondi to whom it may concern.....	Nov. 12, 1930
Nov. 22, 1930—PART LOT 2 BLK C Woodside Acres. E Stevenson Jr to whom it may concern.....	Nov. 22, 1930
Nov. 24, 1930—PART OF FRANCIS Tract, Redwood City. John Curry to Thomas J Sullivan.....	Nov. 24, 1930
Nov. 24, 1930—LOT 25 BLK 6, Daly City. Mike Meskovich et al to John W Rogers.....	Nov. 22, 1930
Nov. 22, 1930—LOTS 1, 2 AND 3 Blk 6, Burlingame Terrace. San Francisco Ray Cities Baptist Union to C H Bessett alias.....	Nov. 20, 1930
Nov. 25, 1930—LOT 10 BLK 13, Bur-	

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Inghame, Richard P Minor to whom it may concern. Nov. 21, 1930
Nov. 25, 1930—LOT 11 BLK 17, Milbrae Highlands. A F Heuer to Henry Erickson. Nov. 24, 1930
Nov. 25, 1930—PART LOT 272, San Mateo Park. Frank E Burrows to whom it may concern. Nov. 22, 1930
Nov. 25, 1930—LOT 11 BLK G, Woodside Acres. Robert N Jones et al to James B Riken. Nov. 21, '30
Nov. 25, 1930—PART LOTS 38 AND 40, Wellesley Park. Henry L McJuilken to whom it may concern. Nov. 25, 1930

LIENS FILED

SAN MATEO COUNTY

Recorded	Amount
Nov. 17, 1930—LOT 14 BLK 15, Bayview Heights, San Mateo. M J McDonough vs Martin Peterson et al	\$1650
Nov. 17, 1930—LOT 14 BLK 15, Bayview Heights, San Mateo. San Carlos Feed & Fuel Co vs M J McDonough et al	\$1450
Nov. 18, 1930—LOTS 19 AND 20 BLK 149, South San Francisco. South City Lumber Co vs Sam Simon et al	\$1092.38
Nov. 19, 1930—LOT 27 AND 28 BLK 12, Central Park, San Mateo. Progress Lumber Co vs Minnie Asher et al	\$196
Nov. 19, 1930—LOT 12 BLK 1, Hillcrest. E D Wolber vs J Goodwin et al	\$312
Nov. 20, 1930—LOT 32 BLK 10, Crocker Estate Tract, San Mateo. Gus R Bloomquist vs James G Thompson et al	\$3006.78
Nov. 20, 1930—PART LOT 20, San Mateo Park. San Mateo. Seth Cohn, \$154.50 R A Haghton, \$620; J B Henderson, \$380; J A Gaffigan, \$702.90; Peninsula Glass Co, \$46.30; Wisnom Hardware Co, \$150.24 vs Thomas A Cavanaugh et al	\$3782
Nov. 22, 1930—PTN LOTS 2 AND 3, Bowie Est, San Mateo. David J Miller vs Thomas A Cavanaugh et al	\$395.01
Nov. 22, 1930—LOTS 14 AND 15 BLK 2, Bayview Heights. Inland Fuel Co vs S A Smoot et al	\$245
Nov. 24, 1930—PART LOT 20, San Mateo Park. H Parnell, \$245; Joseph Grimes, \$697.89; Royal Floor Co, \$247; G Ragner, \$100; C Guarini, \$85 vs Thomas A Cavanaugh et al	\$257.40
Nov. 24, 1930—LOTS 24 & 25, Oak Grove Park. West Bay Lumber Co vs Anna Miller et al	\$36.36
Nov. 24, 1930—LOT 32 BLK 10, Crocker Estate Tract. A Milano vs Gus Bloomquist et al	\$403
Nov. 24, 1930—LOTS 4 AND 5 BLK 14, Central Park. Albert Cook vs A Newman et al	\$70
Nov. 24, 1930—LOTS 14 & 15 BLK No. 2, Bayview Heights. E K Wood Lumber Co vs Martin Peterson et al	\$257.40

RELEASE OF LIENS

SAN MATEO COUNTY

Recorded	Amount
Nov. 17, 1930—LOT 1 BLK 5, Vista Grande. A Milano to Florence E Clark	
Nov. 18, 1930—SAN MATEO. H R Faltin, Palo Alto Lumber Co; Charles H Beckman; E A Mueller; Wm M Baldwin; Coast Glass Co; Julius F Berendsen; San Carlos Feed & Fuel Co; San Mateo Feed & Fuel Co; Merner Lumber Co; Sudden Lumber Co to H W Houghman et al	
Nov. 20, 1930—LOTS 95 AND 96,	

Brewer Sub. No. 3, San Mateo. Disappearing Screen & Shade Co to Edward C Counter et al

BUILDING PERMITS

SAN JOSE

ALTER frame residence, \$1000; No. 1264 Martin Ave., San Jose; owner, Wm Kady, Premises; contractor, Vincent Maggio, 432 N-15th St., San Jose.

HAZZARD building, Class A, \$4000; No 724 S-First St., San Jose; owner, Expert Cleaners, Prem.; contractor, Dyke Walton, 1217 University Ave., San Jose.

RESIDENCE, 5-room frame, \$3000; Morlan St. near Santa Clara St., San Jose; owner, Mrs. E. Larson, 26 Morlan Ave., San Jose.

ADD to frame industrial building, \$1000; No. 299 S-Twenty-fourth St., San Jose; owner, Chas. Cort, Premises.

RESIDENCE, \$3700; Sierra St. near Park, San Jose; owner, G. W. Olson, 1515 Martin St., San Jose.

RESIDENCE, duplex, frame, 3 rooms each, \$3250; Twenty-third St. near San Antonio St., San Jose; owner, J M Puck, 1206 Cherry Ave., San Jose.

ALTER Class C business building, \$1700; No. 68 S-First St., San Jose; owner, Frank Marten, Letitia Bldg., San Jose; contractor, R. O. Summers, 17 N-First St., San Jose.

RESIDENCE, 6-room frame, \$4000; No. 175 N-Thirty-first St., San Jose; owner, P. C. Henry, 175 N-31st St., San Jose; contractor, J. P. Henry & Son, 195 N-31st St., San Jose.

RESIDENCES (2), frame 5-rm, \$4000 each; Delmas Ave. near Williams St., San Jose; owner, T. H. Herschbach, Twohy Bldg., San Jose; architect, Wolfe & Higgins, 19 N-Second St., San Jose; contractor, T. H. Herschbach.

RESIDENCE, frame, 5-room, \$4500; McDaniel St. near Park, San Jose; owner, M. R. Mitchell, 540 Sixth St., San Jose; contractor, Wm. O'Neill, 1500 McDaniel St., San Jose.

BUILDING PERMITS

PALO ALTO

STORES, Class C, \$6000; No. 433-449 California Ave., Palo Alto; owner, Bartley & Stenbit, 450 California Ave., Palo Alto; contractor, Young & Horstmeier, 461 Market St., San Francisco.

ALTER bakery, \$1500; No 430 California Ave., Palo Alto; owner, Mouret & Bordenave, Premises; contractor, G. B. Moore, 531 Stanford St., Palo Alto.

RESIDENCE, stucco, \$5700; No. 346 Portola St., Palo Alto; owner, Myrtle W. Causley; contractor, C. T. Causey, 2390 South Court, Palo Alto.

ADD to store, \$1500; No. 481 California Ave., Palo Alto; owner, Dolly & Peck, Premises; contractor, Kelly Bros.

BUILDING PERMITS

BURLINGAME

BUNGALOW, \$5000; Lot 26 Blk 10, Chula Vista, Burlingame; owner, and contractor, C. H. Haiger, 415 E-St. Inez St., Burlingame.

ADDITION to apartments, \$2000; No. 1221 Howard Ave., Burlingame; owner, Edmund Bourne, 1221 How-

ard Ave., Burlingame; contractor, Geo. W. Williams, 1401 Broadway, Burlingame.

RESIDENCE, \$5000; Lot 24 Blk 4, Winchester St., Burlingame; owner & contractor, I. Sorensen, 1128 Lincoln Ave., Burlingame.

GAS station, \$3000; Lot 12 Blk 1, California Drive, Burlingame; owner, Jeremiah Kelleher; contractor, Charles Hammer, 1524 Floribunda St., Burlingame.

RESIDENCE, \$5300; Lot 18 Blk 4, Adeline St., Burlingame; owner and contractor, Olive Oakley.

BUILDING CONTRACTS

CONTRA COSTA COUNTY

DWELLING

LOT 141, Mira Vista Highlands. All work for seven-room frame dwelling and double garage.

Owner — M. Elizabeth Kinnear and Gladys V. Noble, 620 18th St., Richmond.

Architect — John Hudson Thomas, Mercantile Bank Bldg., Berkeley.

Contractor—Louis O. Hansson, 1409 Bonita St., Berkeley.

Filed Nov. 24, '30. Dated Nov. 19, '30.

Frame up.....\$2156.62

Brown coated inside and out 2156.62

Completed and accepted.....2156.62

Usual 35 days.....2156.64

TOTAL COST, \$8626.50

Bond, limit, forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

CONTRA COSTA COUNTY

Nov. 24, 1930—LOTS 1, 3 AND 4 Blk 218, Creed Subdivision No. 2, Pittsburg. W A Watt to W A Watt
 Nov. 15, 1930 || Nov. 21, 1930—PTN LOT 14 BLK A, Parkside Addition and Racetrack Sub Ray I Burr to Fred L Rose | Nov. 15, 1930 |
| Nov. 21, 1930—NEAR MARTINEZ, Southern Pacific Co to Spivock & Spivock (reinforced concrete signal tower) | Nov. 15, 1930 |
| Nov. 17, 1930—LOT 16 and S 4 ft. Lot 15 Blk 53, Amended City of Richmond. Mary Kelly to whom it may concern | Nov. 15, 1930 |

LIENS FILED

CONTRA COSTA COUNTY

Recorded	Amount
Nov. 20, 1930—PTN LOTS 5 AND 6, Government or Gwin Ranch. Jas F Maury (as W E Maury & Son) vs F M Sanford et al	\$419.29
Nov. 19, 1930—LOT 10, Grammar School Addition to Concord. Lee Harris vs Andrew R Brazil	\$75

BUILDING CONTRACTS

SONOMA COUNTY

COLLEGE BLDG.

ELLIOTT AVE AND STATE HIGHWAY, Junior College Grounds, near Santa Rosa. All work except heating system for 1st unit of one-story brick Junior College Bldg.

Owner—City of Santa Rosa Junior College District.

Architect—W. H. Weeks, 111 Sutter St., San Francisco.

Contractor—Louis Halvorsen, 128 Dutton Ave., Santa Rosa.

Filed Nov. 21, '30. Dated Nov. 19, '30.

As work progresses.....75%

Usual 35 days.....25%

TOTAL COST, \$39,137

Bonds (2) \$19,568.50 each. Surety.

Standard Accident Insurance Co. Limit, 100 working days. Forfeit, not to exceed \$10 a day. Plans and specifications filed.

COMPLETION NOTICES

SONOMA COUNTY

Recorded	Accepted
Nov. 14, 1930—FARM 37, Lawndale, being part of Kenwood. J C and Mary Rose to whom it may concern.....	Nov. 10, 1930
Nov. 15, 1930—N 50 FT. LOTS 11 & 12, E. H. Smyth's Subd. of Blk 9, Morgan Bros. Addn, Santa Rosa. C W Gandy to whom it may concern.....	Nov. 14, 1930
Nov. 22, 1930—6.60 ACRES PART Lots 9 and 17, Rincon Park Tract A near Santa Rosa. L B and Jessie E Howard to W F Bohne.....	Nov. 13, 1930

LIENS FILED

SONOMA COUNTY

Recorded	Amount
Nov. 19, 1930—KNELLER PLACE, 20 acres Rincon Valley near Santa Rosa. M J Dickinson and Don Dickinson (Dickinson Building Materials & Supplies) vs Walter E and Elizabeth M Kneller; H P Fish and Joe Cassani.....	\$58.45
Nov. 19, 1930—LOT 403 and part LOT 402 Blk 12, City of Santa Rosa. O C Hughes vs A P Sweeney, C B Eames, L O Heckman, J F Kinslow, Mary C Barnett and Amelia B Barnett.....	\$128.45
Nov. 21, 1930—LOTS 401-403 and part LOT 402 Blk 12, City of Santa Rosa. L A Drake vs A P Sweeney, C B Eames, L O Heckman, J F Kinslow, Mary C and Anella Burnett.....	\$307.80
Nov. 22, 1930—LOTS 377-388 City of Petaluma. A F Tomasini vs Z Milani.....	\$466.62

RELEASE OF LIENS

SONOMA COUNTY

Recorded	Amount
Nov. 15, 1930—LOTS 2, 3, 4, 5 and 6 Blk C. McBeth Turne & Weech's Addition, Santa Rosa. C E Waters to Agnes L McCarthy and Frank Sealer.....	\$144

COMPLETION NOTICES

MONTEREY COUNTY

Recorded	Accepted
Nov. 20, 1930—N ½ LOT 5 BLK 10 and ½ Homestead Addition, Monterey. Peter Crist to whom it may concern.....	Nov. 18, 1930
Nov. 21, 1930—LOT 12 BLK 174, Map of Fifth Addition to Pacific Grove. Charles Williams to W O Halsted.....	Nov. 18, 1930
Nov. 21, 1930—PROPERTY OF King City Union School District. King City Union High School District to San Jose Heating & Ventilating Co. Nov. 20, 1930; The Minton Co.....	Nov. 20, 1930
Nov. 22, 1930—LOT 13 BLK 260 Map of Pacific Grove Beach. Richard C Colburn to Newman & Halstead.....	Nov. 21, 1930
Nov. 24, 1930—LOT 31 BLK 6 Map No. 2, Monte Heights, Monterey County. Walter F Breyer to whom it may concern.....	Nov. 20, 1930

LIENS FILED

MONTEREY COUNTY

Recorded	Amount
Nov. 20, 1930—LOT 6 BLK 26 Block Book of City of Monterey. W H McConnell, Inc, \$296.72; T A Work Jr. and Stuart A Work, \$180.22; J W Merritt, \$31.15 vs W G Hudson; Carmel Martin; Thomas Doud; J A Lind also as J C Lind.....	
Nov. 20, 1930—LOT 5 BLK 26 Block Book of City of Monterey. W H McConnell, Inc, \$296.72; T A Work Jr. and Stuart A Work, \$232.47 and J W Merritt, \$31.15 vs Julia A Illiley, J A Lind also as J C Lind.....	
Nov. 22, 1930—LOTS 34 AND 35 Blk 1 Plat of Boulevard Tract, Monterey. Tynan Lumber Co vs Henry J Gross.....	\$336.82

COMPLETION NOTICES

MARIN COUNTY

Recorded	Accepted
Nov. 17, 1930—SAUSALITO. Peter J Scanlon and wife to Melvin H Klyce.....	Nov. 15, 1930
Nov. 17, 1930—CORTE MADERA. C L Donovan, H E Ziegler and Jas Kennett to whom it may concern.....	Nov. 17, 1930
Nov. 19, 1930—SAN ANSELMO. Catherine Struckman to E L Wilson.....	Nov. 14, 1930

LIENS FILED

MARIN COUNTY

Recorded	Amount
Nov. 19, 1930—SAN ANSELMO. Mal-lot & Peterson vs C A Service.....	\$45.05
Nov. 19, 1930—HAWTHORN HILLS, San Anselmo. Henry Hess Co vs Chas Service.....	\$418.98
Nov. 19, 1930—SAN ANSELMO. J L Beasley vs Chas A Service.....	\$154.30

BUILDING PERMITS

STOCKTON

RESIDENCE and garage, \$4600; No. 1401 West Willow St., Stockton; owner, J. M. Helterbrand, 2644 E. Main St., Stockton.	
RESIDENCE and garage, \$3600; No. 1715 W-Harding Way, Stockton; owner, F. P. Dobson, 1150 W-Harding Way, Stockton.	
RESIDENCE and garage, \$2500; No. 336 E-Mendocino St., Stockton; owner, R. Kruger, Premises.	
RESIDENCE and garage, \$4900; No. 863 S-Tuxedo St., Stockton; owner, McCarty & Harrington.	

COMPLETION NOTICES

SAN JOAQUIN COUNTY

Recorded	Accepted
Nov. 21, 1930—LOT S W ½ LOT 7 Blk 3, Pacific Manor. Stanford Sweet to Randolph and West Bldg Co.....	Nov. 20, 1930

LIENS FILED

SAN JOAQUIN COUNTY

Recorded	Amount
Nov. 19, 1930—LOTS 9 AND 11 BLK 2, Yosemite Subdivision, Stockton. Fisher Bros. vs Toney and Carmo Moreira; Mary Crudell and Mary Canuca.....	\$700

BUILDING PERMITS

SACRAMENTO

RESIDENCE, 8-room, \$6000; No. 2126 Fifth St., Sacramento; owner, Urban Investment Co, 155 Montgomery St., San Francisco; contractor, Jos. T. Ronsdall.	
STORE building, \$2400; No. 1901 N St., Sacramento; owner, H. Garlbald, 1900 P St., Sacramento; contractor, J. Johnson, 1819 23rd St., Sacramento.	
APARTMENT house (22 room), \$13,500; No. 2124 P St., Sacramento; owner, Hark & Mackrell, 1517 17th St., Sacramento.	
NEW floor, \$2000; No. 1011 Ninth St., Sacramento; owner, J. Lucich, Premises; contractor, H. P. Fisher Tile & Marble Co., 2155 4th Ave., Sacramento.	
RESIDENCE, 4-room, \$3000; No. 900 54th St., Sacramento; owner, Frank Richards, Hagginswood St., Sacramento.	
DWELLING, \$5500 No. 1042 F St., Sacramento; owner, John C. Tuck; contractor, W. T. Harris.	

COMPLETION NOTICES

SACRAMENTO COUNTY

Recorded	Amount
Nov. 21, 1930—S ¼ LOT 5, V, W, 22nd and 23rd Sts., Sacramento. Alice F Powell to whom it may concern.....	Nov. 20, 1930

LIENS FILED

SACRAMENTO COUNTY

Recorded	Amount
Nov. 19, 1930—PAR LOT 2 and all Lots 3, 4, 8, 19 and 20, Hewitt Sub 2 and Lot 6, Hewitt Sub. 3, Sacramento. Capital Lumber vs C A and Edith B Kingsley and Frank Kramer.....	\$58.13

BUILDING PERMITS

FRESNO

WAREHOUSE, \$50,000; No. 805 R St., Fresno; owner, United Grocers, Inc., 414 P St., Fresno; contractor, Fisher & McNulty, Mattei Bldg., Fresno.	
DWELLING and garage, \$4000; No. 330 Clinton Ave., Fresno; owner, Alvin Popp; contractor, Chas. McKnight & Son, 736 Terrace St., Fresno.	
DWELLING and garage, \$3000; No. 726 Safford Ave., Fresno; owner, A. M. Chitty, 402 Glenn Ave., Fresno.	
DWELLING, \$1300; No. 115 Fresno St., Fresno; owner, C. W. Church, Premises; contractor, J. R. Church 221 North U St., Fresno.	

COMPLETION NOTICES

FRESNO COUNTY

Recorded	Accepted
Nov. 19, 1930—LOTS 19 & 20 BLK 300, Fresno. Taylor-Wheeler, Inc to whom it may concern.....	Nov. 15, 1930
Nov. 22, 1930—LOT 6 BLK 34, Sierra Vista Addition No. 2, Fresno. R H Patterson et ux to Jack W Bandy.....	Nov. 20, 1930
Nov. 20, 1930—LOTS 31 AND 32 BLK 20, Arlington Terrace. Fresno Frank Dugovic to whom it may concern.....	Nov. 19, 1930

Nov. 29, 1930—LOTS 19 AND 20
Blk 350, Fresno. Taylor-Wheeler
Inc to whom it may concern
..... Nov. 15, 1930

LIENS FILED

FRESNO COUNTY

Recorded	Amount
Nov. 22, 1930—LOT 12 BLK 1, Leona Heights, Fresno. Swastika Lumber Co, \$345; B A Newman Co, \$167; Fisher-Glassford Hard- ware Co, \$217; Fresno Electric Co, \$82; Hollenbeck - Bush Planing Mill Co., \$123 vs J D Brase.	

OFFICIAL PROPOSALS

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received at the office of the State Highway Engineer, Public Works Building, Sacramento, California, until 2 o'clock P. M. on December 17, 1930, at which time they will be publicly opened and read, for construction in accordance with the specifications therefor, to which special reference is made, of portions of State Highway, as follows:

San Luis Obispo County, between Paso Robles and the northerly boundary (V-S-L-O-2-A), about ten and nine-tenths (10.9) miles in length, to be graded and paved with asphalt concrete.

Santa Barbara County, between Gavita and one mile north of Las Cruces (V-S-B-2-E), about two and eight-tenths (2.8) miles in length, to be graded and paved with Portland cement concrete.

Proposal forms will be issued only to those Contractors who have furnished a verified statement of experience and financial condition in accordance with the provisions of Chapter 644, Statutes of 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Bids will not be accepted from a Contractor to whom a proposal form has not been issued by the Department of Public Works.

Plans may be seen, and forms of proposal, bonds contract and specifications may be obtained at the said office, and they may be seen at the offices of the District Engineers at Los Angeles and San Francisco, and at the office of the District Engineer of the district in which the work is situated. The District Engineers' offices are located at Eureka, Redding, Sacramento, San Francisco, San Luis Obispo, Fresno, Los Angeles, San Bernardino and Bishop.

A representative from the district office will be available to accompany prospective bidders for an inspection of the work herein contemplated, and Contractors are urged to investigate the location, character and quantity of work to be done, with a representative of the Division of Highways. It is requested that arrangements for joint field inspection be made as far in advance as possible. Detailed information concerning the proposed work may be obtained from the district office.

No bid will be received unless it is made on a blank form furnished by the State Highway Engineer. The special attention of prospective bidders is called to the "Proposal Re-

quirements and Conditions" annexed to the blank form of proposal, for full directions as to bidding, etc.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

C. H. PURELL,

State Highway Engineer.

Dated November 19, 1930

Adjustment of production in the lumber industry to meet market requirements is one of the basic factors to be discussed by Colonel W. B. Greeley, Manager of the West Coast Lumbermen's Association of Seattle, and former Chief Forester of the United States, at the meeting of the Western Division of the United States Chamber of Commerce, at Portland, December 8 and 9.

"I have planned to outline some of the major economic problems of the lumber industry in western Oregon and Washington at the December meeting of the Western Division," states Greeley, "particularly the problem of carrying forty years' supply of raw material—on the tax rolls; the excessive productive capacity which has been created; the industrial necessity for a better adjustment of current production to market requirements; and the public aspects of this problem in relation to the conservation of natural resources and avoidance of waste."

Other business leaders in the lumber industry, writing to the United States Chamber of Commerce, make the following comments on the condition of the lumber industry which should be taken up at the Portland Conference:

"A rational adjustment of western lumber production to current demand.

"Wider markets for all lumber, particularly western lumber, through reduced transportation costs.

"Remedy to conditions including;

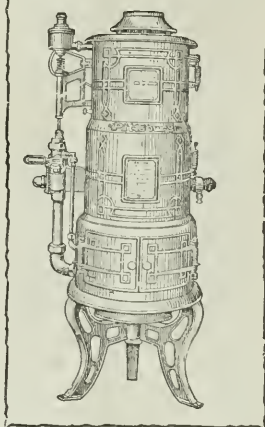
unrestrained competition; unscientific timber tax laws, standing timber being taxed annually instead of when cut, forcing holders into premature liquidation whether or not there is demand for the products; lack of proper control; inadequate tariff protection and foreign invasion of markets; the formation of regional lumber consolidations or mergers to assume leadership in manufacturing and sales policies."

Resolutions passed by the Cleveland, Ohio, Building Trades Employers' Association, recommending that contractors try for an even distribution of labor on construction jobs to relieve the unemployment situation, were read at the Santa Clara County Building Trades Council meeting in San Jose, last week by Secretary A. J. Rose.

The plan suggested in the resolution is that in use by the State Highway Department of rotating labor, putting one group of men to work three days a week and another group for the remaining three days. Special consideration would be given to former employees badly in need of work.

Bert P. Ward, secretary of the District Council of Carpenters, pointed out that in Seattle, steps have been taken to maintain the usual wage scale. Some contractors there have cut wages, Ward declared. They have as a consequence, been barred from working on all municipal jobs during the next two years.

Secretary-Manager Patterson of the Sacramento Builders' Exchange announces five new members in his organization: Games & Sawyer, heating specialists; Carpenter & Mendenhall, plumbing contractors; Davies Paint Shop of Stockton, painting contractors; C. E. Turner, electrical contractor and Howard A. Tyler (Northern California Materials Company), building materials.



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SAN FRANCISCO, CALIF., DECEMBER 6, 1930

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Thirtieth Year, No. 49



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Devoted to the Architectural, Building, Engineering and Industrial Activities on the Pacific Coast

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Building and Engineering News will be sent to subscribers until ordered stopped and all orders to discontinue must be sent in writing to this office.

S. F. BUILDING DURING NOVEMBER TOTALS \$1,313,672

San Francisco building construction undertaken during the month of November, 1930, based on the valuation of building permits issued, involved an expenditure of \$1,313,672, according to John B. Leonard, superintendent of the Municipal Bureau of Building Inspection. During the month 441 permits were issued as compared with 560 permits for the corresponding month last year when the work undertaken involved an expenditure of \$2,437,796.

During the past eleven months, Leonard reports, 6,096 permits issued, the improvements costing \$20,434,606 as compared with 6,655 permits for work costing \$32,064,334 for the same period in 1929.

Following is a segregated report of the November, 1930, operations:

Class	No. of Permits	Est. Cost
A	2	\$ 250,000
E	2	51,000
C	4	126,900
Frames	118	536,725
Alterations	312	158,546
Public Bldgs.	2	81,501
Gov't. Bldgs.	1	50,000
Total.....	441	\$1,313,672

BUILDING-LOAN LAW CHANGE, AIM

"The division of building and loan supervision, in co-operation with the legislative committee of the Building and Loan League of California, is now working on proposed changes in the building and loan laws which experience has proved necessary and advisable to insure a more complete supervision and greater public safety," according to a report rendered to the department of investment at the November meeting of Governor Young's council, by Charles A. Whitmore, state building and loan commissioner.

"The tremendous growth of the building and loan business during the past few years emphasizes the necessity for laws which would create adequate machinery to enable the building and loan commissioner to fully protect and safeguard the investing public.

"There are several general points which will be taken into consideration in connection with any legislative plan, as our laws are very cumbersome and ambiguous in many respects. These confusing portions of the laws should be clarified so as to remove any doubt as to their meaning, and some definite additions to the laws should be made so as to give the commissioner broader and more discretionary powers of supervision."

Oregon Building Congress with headquarters in Portland is considering the preparation of a state building code.

C. H. PURCELL TO RETAIN HIGHWAY POST



C. H. PURCELL
State Highway Engineer

Governor-elect Rolph has announced that C. H. Purcell will be retained as state highway engineer under his administration.

Mr. Purcell was appointed to the post by Governor Young shortly after he was inducted into office and has served with signal ability.

He was secretary of the commission appointed by President Hoover and Governor Young to study the San Francisco bay bridge project and the preliminary engineering work in connection with it was carried out under his direction.

Because of his knowledge of the project a strong appeal for his retention was made by those interested in it.

Mr. Purcell came to the California state highway department from the U. S. Bureau of Public Roads, for which he was district engineer, with headquarters at Portland, Oregon.

Annual meeting of the California Retail Hardware & Implement Association will be held in San Francisco, February 17-19. It is announced by LeRoy Smith, 112 Market St., San Francisco, secretary of the association.

PROPOSED AMENDMENT REGULATES CONTRACTS ON S. F. PUBLIC WORKS

A proposal to amend the charter of the City and County of San Francisco, regulating contracts for public works, Article II, Chapter III, Section 1, last paragraph of said section, as published in the Labor Clarion, local labor journal, reads as follows:

Every contract for work to be performed within the State of California at the expense of the City and County or paid out of moneys deposited in the treasury, whether such work is to be done within or outside the limits of the City and County, and whether such work be done directly or under contract duly awarded, or indirectly by or under subcontract, partnership, day labor, station work, piece work, or any other arrangement whatsoever, must provide or be understood to provide and be subject to the following terms and conditions: (1) That in the performance of the contract and all work thereunder eight hours shall be the maximum hours of labor on any calendar day; (2) that all laborers, mechanics and other persons performing labor thereunder shall be paid not less than the rates of wages prevailing in private employments for comparable work, such prevailing rates of wages for each kind of labor required in the performance of the contract to be set out in the specifications before advertising for bids; and, and, and previously established by general ordinance of the Board of Supervisors, the prevailing rates of wages applicable to such contract work shall be determined by the office, board, commission or department having the right to award the contract, and such determination shall be based upon an examination of the wage rates which have been established by the joint action of employers and employees, or which have been accepted by both as standard wages; changes in the wage rates so established may be made from time to time, provided that no rates may be changed in any contract in course of execution or remaining uncompleted, except where the contract so provides or the parties so agree; (3) that any person performing labor in the execution of the contract shall be a citizen of the United States; (4) that all laborers and mechanics employed in the execution of the contract or other arrangements shall have been actual residents of the City and County for a period of one year immediately preceding the date of their engagement to perform labor thereunder, provided, however, that the authority awarding the contract may, upon application of the contractor, waive such residence qualification and issue a permit specifying the extent and terms of such

(Continued on page 32)

COOPERATION OF ARCHITECT WITH BUILDING INSPECTOR

(By Robert H. Orr, Architect, Los Angeles)

Of all laws enacted for the benefit of human welfare none are more important than the laws pertaining to health. Closely related to health, and upon which it largely depends, is sanitation. The handmaid of both is our housing and building laws and ordinances. Health, sanitation and housing affect every man, woman and child in all civilized countries. Let an epidemic occur, our buildings will be dynamited and razed, human bodies will be heaped in the streets and burned in order to stamp it out. We are engaged in a service which directly cooperates with the health departments in bringing about better living conditions and sanitation by erecting buildings. But we are not permitted to tear down the most miserable shack, it being deemed confiscation of property.

This state has wisely set up housing laws which aim to protect the health and happiness of its citizens. Health follows by reason of good wholesome living conditions, happiness follows by reason of health and pleasant surroundings. The state's housing laws are mandatory upon all those who build, and the enforcement of its provisions are left to the building inspectors of the municipalities. There is no court of appeal or arbitration, no near standards to which a near approach can be determined. It is a minimum provision to be exacted of all.

Counties Lack Building Laws

Under the state comes the next subdivision of our commonwealth, the counties. Most all counties are without building ordinances, except where there is a city and county government, and all are subject to those enacted by the state. Most all counties are well provided with sanitary laws, but are quite deficient in building laws. While no great harm has been done thus far, it seems quite unfair that the incorporated cities and towns are left with their city limits unprotected from the investor who may be able to shift or jeopardize the business center by erecting a tall building just beyond the city limits.

Much has been said about being "air-minded," which we apply to aeronautics, but we are confronted by another air-minded group. In cities each block tries to outdo its neighbor. Our municipalities, without height limits, try to outdo one another by erecting the tallest building. This has led to an intense discussion concerning the maximum height of buildings to be erected as a safe investment. How high can they be built without congesting the traffic of the street? To what height can buildings be erected within which modern fire-fighting apparatus may be able to cope with fire? With elevators that may offset and work in relays, they may be depended upon for any height. To those who have given intensive thought to the subject, the question seems to be to what height can buildings be erected and leave a factor of safety in the sustaining members?

Height Limit for Buildings

The builders of this generation are so air-minded that the maximum height has not yet been calculated. It will be greater as lighter materials are found. Plastering materials are now being used that weigh one-half of the usual lime and sand mix. Why load a building with sand when pumice stone will give the same binding results, with a material reduction in weight? It will be greater when new formulae are found for metals that

Address of Mr. Orr at the annual convention of the Pacific Coast Building Officials' Conference, Long Beach, Nov. 3, 1930. Mr. Orr is a member of the American Institute of Architects and chairman of the Los Angeles Building and Safety Commission.

will carry stresses far exceeding the standards now allowed for modulus of elasticity and rupture. Already announcements have been made of such metals for airplane use, and eventually they will be available for steel structures. With these air-minded builders and our civic borders unprotected, it does seem incredible that our county governments are without building ordinances, similar, if not identical, to those of the incorporated cities, regulating the construction of all classes of buildings and height limits, with adequate building codes or ordinances. Also provisions made for an inspector in every building subdivision, as fully qualified technically, as those within our municipal governments.

What does all of this have to do with co-operation between the architect and building inspector? Using the words, "architect" and "building inspector" in their widest sense, the architect may supervise his work or engage some one to do so; the building inspector may be the head of the department or one in any way having to do with the enforcement of building ordinances. Co-operation or combined effort applies to those who create by design, or those who oversee construction or those who engage in the application of building materials.

Structural Problems in Cities

It is to the cities that our thoughts are to turn as the inspiration and guide in structural matters. The larger the city the more exacting must be its relations between the architect and building inspector. Within the large cities are created the initiative in design and construction, marching hand in hand with science and invention. Ever-increasing problems are presented to meet the need of modern conditions. It may be a building with a large landing deck for airplane carriers; resilience of floors, take-off impulse accelerators, momentum arresters and cheval net protectors, limits beyond which no means has yet been devised for lighting and ventilating a vast enclosure. Or it may be a hangar far beyond the areas of now known buildings, subject to the most intense fire hazards by reason of an ever-present abundance of explosive fuel augmented by vaporized fuel for cleaning purposes. It may be a large steel building built with battle deck construction, the principle of construction employed in the great ocean liners which is coming into use for steel frame buildings. All of these will call for a new vision in building codes and ordinance compilers, and the execution of their technical provisions by the architect and building inspector.

Who will be the architect, and guarded in his relations to his client, if he will take the opportunity to consult the framers of the ordinances, or those most capable of interpreting its building provisions before seriously engaging in the preparation of plans. Codes or ordinances are minimum requirements and if a major plus, of course, more than one interpretation may be placed upon their meaning. For many years a building code that

limited the height of superstructure above a maximum limit height building was applied to each structural unit. A pent house could have a certain height, a sign structure could be so high, each measured from the same beginning point, until some enterprising architect placed one above the other and the ordinance could not prevent it; all of which led to a revision of the limit-height code.

Differences in Supervision

There is a marked difference between the supervision given to construction by the architect, and that by the building inspector responsible to the law. They have things in common, but by the very nature of their training they are different. They approach the problem with an entirely different thought in mind. The architect is concerned about the construction according to the plans and specifications. He will see that each opening is left in its proper place, that provisions are made for placing trim, that the proper run and rise are given to stairways and that there is sufficient head room for clearance. He will be interested in the esthetic values, the selection of materials, the joinery, the textures, the degree of smoothness, the carrying out of full-size details, profile of moldings, the harmony of colors, paneling, cabinets, the modeling of ornaments, the decorative motifs, number of coats of finish and many other things that do not interest the building inspector, except as they may affect the plans and specifications, which do not apply, so far as he is concerned, if they do not conform to the building ordinances.

From the very nature of his training the inspector will be on the alert for structural things. Has the ground been filled, has the proper load per square foot been allowed, have the reinforcing bars been properly placed, is the concrete aggregate of proper proportions, has the riveting of structural parts been well done, are timbers properly framed? After plastering, wiring, roughing in for plumbing fixtures, securing of roofing materials are thoroughly inspected, most of the rest is left to the architect's supervision. Hence the difference between supervision and inspection. Supervision will be planned and lay out in advance the things that are to be done, inspection will apply when they are about to be done or afterward.

Code Versus Architecture

The building codes do not regulate specifically those matters herein grouped for the architect, they do regulate those applying to the building inspector. So it does seem apparent that they are different-minded individuals. The architect is cautious about construction, yet wanting to create a pleasing effect, eager to satisfy the owner, seeking the beautiful. The building inspector, mindful of building regulations and laws, interpreting what the law does say, insisting upon the work being strong, safe, protecting the inhabitants, and keeping the weather out, may not be interested in whether the building will be warm or cold, not at all interested about its beauty, convenience or adaptability. And yet both are right. One is vested under the authority of a law as an individual licensed to practice a profession, the other is charged with the enforcement of the law and its provisions, with police power to stop and enforce—"it shall be unlawful."

Beauty is one of the most essential and enduring things about buildings. If you do not believe it, go abroad and see the wonders of the world in structures. The whole world is the house when one of these landmarks disappears. Comfort and convenience are essential. Who wants to live in an uncomfortable home or work in a poor office building? Who wants to be inconvenienced by a bad plan?

Opportunity for Co-operation

Here is such a wonderful opportunity for co-operation. The architect when in doubt about the provisions of the code consults the inspector; in doubt about legalized materials, consults the inspector. No architect should attempt to cover up, but should be frank and fair. Confidence once lost cannot be easily re-established. How about the plans? Have they been well prepared, details clearly shown, headroom around stairs properly laid out? No one can hold the inspector responsible if it is found on the final check-up that the toilets are one inch shy in width, stairways an inch or two short at the top, headroom insufficient, beams with impaired clearance for headroom. These are things the architect should guard against and for which he should be responsible. These are architectural features.

How about the plans the inspector checked and on which he issued a permit for construction? Were they plans or sketches? Could they be checked intelligently? Will they be understood by the field inspector? Will he be able to reconcile the plan to the construction? Has the owner been given a fair chance to get good value from the plans passed? Can any blame be properly placed for faulty construction? Has the owner any right to expect that the building inspector will protect his interest, when he does not take the precaution to supply definite plans? The owner has some rights, because he pays taxes that go to support the building inspector. Who ever heard of an owner lodging a demand that the building inspectors insist upon better construction?

When Co-operation Fails

It is a well-established fact, in building departments, that where the architect's supervision is dispensed with, the final check will develop innumerable things that have been overlooked. When both the architect and building inspector have co-operated upon a building, it is seldom that technical violations occur, and on the other hand many things are done that will work for the benefit of the building.

It is also observed that buildings built for investment are not as well built as others, although the laws and ordinances are the same. This is especially true about apartments. Note the apartment-house damage to the extent of from ten to twenty thousand dollars by the last earthquake that occurred in Southern California. It was not a severe earthquake. No damage of any consequence was reported upon other types of buildings. These are illustrations of non-co-operation. A poor set of plans and specifications, intended to allow cheap construction and an inspector hampered by every known trick to cover up poor construction, can prove a building which is a menace to life and limb.

Two Values on a Building

These should be two values placed upon a structure. A building with the services of the architect and inspector should be of greater value than one without it. Every financial institution should recognize this. The investor should acknowledge it. The purchaser of a home should consider it a mark of dependability. On no account should a lack of these virtues be placed upon the inspector alone when the architect's services are lacking. He cannot take the place of two

men of different technical values. Building departments should make it compulsory for an owner to pay an additional permit fee, when the architect is not required to supervise the work because it places an added burden upon the inspector. And in such a case additional inspection should be required of the department. The building inspector's work is made easier by a complete set of plans and specifications. Upon them is established basic grounds for co-operation. The architect has a feeling of security and satisfaction, when he knows the safety tests have been applied in the checking of plans and the field work has come under the scrutiny of technical men.

Co-operation then should mean the architect welcoming the technical advice that a building department has to offer, for it is to be expected that he is not versed in the knowledge obtained by the various building divisions, plumbing, electrical, heating, ventilating and mechanical equipment which they obtain and put into practice, the standards and requirements by national bureaus. Co-operation should place some established value upon plans and specifications. There cannot be co-operation, in its true sense, where there are open questions for controversy. As a rule, the outcome of a disputed question will be the acceptance of a standard which would be of least value to the building.

Co-operation of the architect and the building inspector will produce better buildings, a safer investment; buildings built in conformity with good practice, less fire hazards, more earthquake resistant and which will keep out the weather. It will have an immediate reaction, a satisfied owner. Such a building will be a real asset to the community and a monument for posterity.

No one can go about the country and insist upon better buildings in which they have co-operated. The architect derives a sense of satisfaction when he can point to some landmark that he has done; and the inspector can take just as much pride in a service which does so much good for a community.

Ten Points of Co-operation

In closing let me summarize ten points upon which we as architects and inspectors should co-operate:

(1) Insist upon a survey of the property. I have known inspectors to find, after the foundations are in and just as often after the building has been erected, that the courts and yards are not of legal dimensions, because the lot line was not established.

(2) The architect should consult the inspector about the salient points in the plan before making the working drawings.

(3) Check with the engineering department and ascertain the fill, if any, and determine the nature of the soil.

(4) File a complete set of plans with the building department. Some architects hold out detail sheets. These are necessary and should be filed.

(5) Do not begin work of any nature until a building permit has been issued and posted. Notify the inspector about all matters that require it.

The first five points have to do with matters before construction; let us consider five general rules for the period of construction.

(6) The architect should have a supervisor upon the work during the pouring of concrete. The inspector should check the placing of reinforcement and give general inspection to the aggregate. Special care should be given to the materials furnished for the superstructure, adhering to the standards established by the building department. Require certificates to be furnished for all registered materials.

(7) Do some measuring and leveling while the building is under construction. It is not sufficient to just look at things. Check the plan against the construction upon all points. Many technical violations occur by not allowing for the thickness of the plastering coat or the thickness of the subfloor in laying out stairways.

(8) Above all things, have confidence one in the other. If there is confidence, the architect can give his attention to the aesthetics, the finishing of materials, decorative and innumerable small details. The inspector can give his time to the technical matters—heating, ventilating, plumbing, electrical work and mechanical equipment.

(9) See that the jurisdiction held by other bureaus—health, sanitation, fire, police, state housing, industrial accident and fire underwriters—has been cleared.

(10) The final check should be made in the presence of the architect, his supervisor and the building inspector. A certification of completion, listing register deficiencies, a permanent record which may be obtainable when property is transferred. Such a procedure will protect the public and the investor.

TRANSVERSE BENDING LOADS ON CHANNEL BEAMS

The shapes of steel rolled I beams and channels have been designed with the main purpose of giving large resistance to bending in accordance with the simple flexure theory for beams; the torsional strength and stiffness of such sections are known to be relatively small. In order to develop the bending resistance of I beams and channels without permitting them to twist, it has been very generally assumed that transverse bending loads on these sections should be applied at the outside of the transverse cross-sections and parallel to the webs. In the case of I beams this assumption is correct, but when a channel is so loaded it twists appreciably as it bends.

Bulletin No. 211 of the Engineering Experiment Station of the University of Illinois contains the results of tests and of analyses to determine where the loads should be applied on steel rolled channels to produce bending without twisting, and also to determine the longitudinal stress in a channel beam if the channel is loaded so that twisting accompanies bending.

Six types of channels were tested, and each channel was tested as a horizontal cantilever beam with a vertical load applied at the end. The load consisted of a weight hung on the free end of the beam, the end of the beam being restrained so that the section remained practically plane. For each channel the angle of twist was measured at six or seven sections along the length of the beam (for each of several positions of the load, the load being applied at two or three points on each side of the back of the channel).

From the results thus obtained the position of the load that caused no twisting of the channel was easily found, and the location of the shear center for each channel section was thereby determined. Also, for each of several lateral positions of the load the strains along each of the four edges of the channels were measured at several sections along the beam, the strains being measured at several sections along the beam, the strains being measured over a 2 in. gage length. Thus the effect of the twisting of the channel on the longitudinal stresses at different sections along the beam was determined.

Copies of Bulletin No. 211 may be obtained without charge by addressing the Engineering Experiment Station, Urbana, Illinois.

THE OBSERVER

What He Hears and Sees on His Rounds

A proposal to build a bridge across San Francisco Bay will be discussed by an engineer of the State Highway Commission before the Board of Directors of the Sacramento Chamber of Commerce, December 22. Consideration of the matter follows a suggestion made that the chamber endorse the project.

The American Chemical Society urges every American industrial engineer in Soviet Russia to withdraw from that country at once "for their own personal safety and as a protest of world science against communistic tyranny." Declaring the 5-year industrialization plan doomed to failure, the society warned that the blame will be placed upon American technical experts.

A \$250,000,000 building program for the Methodist Episcopal Church in the United States to help the employment situation is recommended to the Board of Home Missions and Church Extension by the Rev. E. M. Conover, director of the board's bureau of architecture.

"Ninety-five per cent of the 25,347 Methodist church buildings in the United States need to be replaced, remodeled or enlarged," his report said. "The value of the present buildings is \$439,950,000 and within the next five years \$250,000,000 should be expended for more adequate buildings and inside equipment. Even this would not begin to bring the physical equipment up to par with the public school equipment."

Application has been filed with the Federal Power Commission by the East Bay Municipal Utility District for a preliminary survey for power units on the Mokelumne river near Mokelumne Hill and Jackson, Alameda County. The district seeks to increase its power supply for distribution in Oakland, Berkeley, Alameda, Piedmont, Emeryville, San Leandro, Albany, Richmond and El Cerrito. The cost of preliminary work was estimated at \$164,000.

Los Angeles lead Pacific Coast cities in building operations for the month of November, issuing 2148 permits for improvements representing an investment of \$4,784,444. Seattle ranked second with 456 permits for work costing \$3,024,675. San Francisco took third place with 441 permits for improvements valued at \$1,313,672. Portland next with 412 permits carrying a total of \$391,360. Oakland reported 244 permits for work costing \$366,616.

A building code for Orange county is the aim of the county planning commission. A tentative draft of an ordinance has been submitted to the commission by one of the members, Jules W. Markel, general contractor of Santa Ana. It is proposed to embody in the code provisions regulating plumbing and electric wiring and standards of construction; also permitting set-back lines and restrictions that will eliminate signs from the public highways. Co-operation of the Orange County Builders' Exchange and various civic groups will be sought in perfecting the code before it is submitted to the board of county supervisors for their consideration.

The Milwaukee electricians' union is going to underwrite the skill of its members. It has just entered into an unusual trade agreement with the local electrical contractors and dealers association that binds it to protect employers against faulty workmanship, enables them to guarantee customers that every union employee measures up to the qualifications called for by his grading.

Three grades of workers are provided for in the agreement: highly skilled men at \$1.25 an hour; less skilled ones of limited experience at \$7c an hour; helpers at lower wages to be increased from year to year until they qualify for the second grade.

Faulty workmanship will be charged directly to the union member responsible for it. Union members who fail in practical tests for their indicated grades will be demoted, must go to school. Electricians' classes have been started at the Boys' Technical High School in Milwaukee.

Hope for solution of the unemployment problem lies largely with the country's engineers, Col. Arthur Woods, chairman of the president's committee on employment, told the American Society of Mechanical Engineers meeting in New York Dec. 1.

"If the engineers of America could supply the same degree of trained intelligence to the problem of stabilization of industry as they have in the past to its expansion, we should march a long way toward regularization of employment," said Colonel Woods.

He urged engineers make a study of methods already in operation to stabilize employment and prevent another crisis in the future.

The society responded to his appeal by voting to undertake a nation-wide investigation into means adopted throughout the country to stabilize employment. Committees in each of the society's 71 local sections in every principal industrial area of the country will conduct the inquiry, under supervision of a central committee.

Lawrence W. Wallace of Washington, executive secretary of the American engineering council, sponsored adoption of the resolution of the society.

A school teacher in New Orleans, the Postmaster of Tom's River, N. J., a cabinet maker in Chicago, a tailor in White Plains, and a dentist in Tuckahoe, N. Y., have made profits running as high as fifty per cent on the money they invested in the land, says the National Association of Real Estate Boards in the ninety-fourth of its series of articles for the public. It doesn't all go into the stock market, and these little romances of tiny fortunes that may have never been made in any other way, may encourage others to invest in the land. The stories are true. The Realty Association has documents on each case in their files. They are just accounts of plain realty deals made by plain people, and there aren't four figures in any of them.

Charles R. Gurney, secretary of the East Bay Building Trades Council has complained to the Alameda county supervisors that county labor is not being exclusively employed by con-

tractors holding county contracts for construction work at the Fairmount and Highland Hospitals. He charged that in some instances local sub-bidders, particularly tile contractors, were not given the opportunity to bid by the contractors.

Industrial activity in electrical manufacturing is 28% below the level of last year at the same time, reports from individual concerns to Electrical World reveal. October ran 6.3% below September. But electrical manufacturing has held much closer to the 1929 record than has industry in general. For the first 10 months of this year the decrease was under 3%, whereas the weighted average for all industry dropped 15%. Compared with 1928, the 10 months showed an increase of 24%. Even October, lowest month thus far in 1930, was 2.5% ahead of October, 1928.

The San Francisco Building Trades Council has been advised that in order to safeguard wage standards, New York City's emergency employment committee has decided to give workers three days' employment at \$5 per day instead of five days at \$3 per day. The change was made at the suggestion of leaders of organized labor. The committee is attempting to raise \$5,000,000, and hopes to provide jobs for 20,000 unemployment by January 1.

John P. Irish, member of the Oakland civil service board, urges a city bond issue to finance improvements to relieve unemployment. Stating that the main plan for creating employment and at the same time securing needed improvements was a bond proposal for at least \$3,000,000, Irish declared that he advocates the proposition, Irish said:

"Why beat around the bush? The city must provide work for its unemployed citizens and the big way to accomplish this is by means of a bond issue."

Gene Bradbury, secretary of the Long Beach Builders' Exchange, says "Watch Your Step" in his weekly bulletin.

"All sub-contractors, material and supply firms are warned to watch their step in entering into contracts with an Owner and Builder. It is almost impossible to stick them under the State Contractors' License Law (until it is amended) because of the fact that you cannot prove a diversion of funds or fraud as they are both owner and contractor. About the only recourse is a lien (and in these cases there is nothing to lien) or a Civil Suit and generally speaking this expense is not warranted."

Sears, Roebuck & Co. have found it impracticable to try to sell homes "out of a catalog" and are scrapping their mail order plan in favor of personal sales promotion, according to the American Lumberman. This statement was made by Lowell G. Collins, manager of the company's local modern homes division office, in a talk at the sales promotion department of the Advertising Club of St. Louis. Mr. Collins gave an interesting insight into some of the company's experiences in the home building field, which he described as a "vast, undeveloped opportunity," and told some of the things the company plans to do.

The city council of Portland, Ore., is urged to take whatever steps possible to prevail upon property owners to stop evictions of families who are unable to pay their rents. The council is informed that within the past twenty days 28 families have been evicted for non-payment of rent, according to records at the constable's office.

On January 1 a new billboard law will go into effect in New Jersey, the object being to reduce the hazards of the street and road and preserve the scenic view. Billboards will be subject to strict regulation, all requiring permits from the state vehicle department. If they obscure the view and make driving dangerous, permits will not be issued. They will also be denied if the billboard obscures a "fine bit of scenery." Most billboards will be taxed 3 cents per square foot. For rent and for sale signs must be under two square feet in size, but when erected on the premises advertised are not subject to tax.

Discussing proposed lien law legislation at the recent state meeting of retail lumbermen Attorney Glen Behymer of Los Angeles said a recommendation would be made to amend Section 1184 of the lien law so that the owner of a private as well as a public building must withhold money instead of having the privilege of doing so at will; also that money lenders would be obliged to withhold money for labor and material. He declared these provisions were needed to enable subcontractors and material men to protect themselves by filing stop notices. Mr. Behymer also said the legislature would be asked to give municipal courts concurrent jurisdiction with superior courts in the same county in foreclosure of mechanics' liens.

Inauguration of a proposed five-day working week for city employees is receiving the official consideration of the Los Angeles city council. A resolution urging such an ordinance has been submitted. Councilman Thomas W. Williams introduced and argued for the resolution. "The problem of unemployment is world-wide," he said, "simply because of society's failure to make social readjustments to industrial and economic evolution. The only scientific solution is to shorten the hours of labor so that all persons may be gainfully employed."

A thorough investigation of work on the erection of new school buildings for the San Jose department of education is under way as the result of protests which have flooded the office of the city superintendent of schools to the effect that contractors were lowering wage scales and were hiring outside labor.

Superintendent Walter L. Bachrodt referred the matter to the district attorney's office for investigation.

There is a clause in each contract for school construction which stipulates that "whenever possible preference shall be given to San Jose labor."

The secretary of the board of education is said to have received complaints from various sources that wage scales of carpenters and other building trades mechanics at work on school buildings had been lowered below the regular scale. This matter is also being investigated.

In the face of complaints that outside contractors have brought with them outside laborers to work on the buildings, Superintendent Bachrodt

William Nuckles Doak has been appointed secretary of labor to succeed James J. Davis. It is announced by President Herbert Hoover, the President, in making the announcement, said Doak had been identified with the labor movement practically all his adult life and that he had been a general officer of the Brotherhood of Railway Trainmen for sixteen years. He added his appointment had been endorsed by a score of labor unions, some of them being affiliated with the American Federation of Labor.

TRADE NOTES

C. S. Maltby Magnesite Co., Ltd., capitalized for \$3,000 has filed articles of incorporation in San Francisco. Directors are Mabel P. Maltby, Katharine Percy and H. W. Erskine.

According to newspaper dispatches from New York, the Long Bell Lumber Company and subsidiaries for the quarter ended September 30 reported net loss of \$688,689, against net loss of \$69 in the third quarter last year.

H. C. Lovett Spraying Painting Co., Ltd., capitalized for \$1,000,000, has filed articles of incorporation in Oakland. Directors are H. C. Lovett, 1710 Everette St., Alameda; J. N. Noonan, 3217 Central Ave., Alameda and J. A. Killian, 1674 Lower Grand Ave., Alameda.

Al Loudor, for the past four years manager of the Sausalito Hardware & Plumbing Company, has purchased the business of the Marin Hardware Company from Carl Lundquist. The latter proposes to enter the insurance business.

Standard Lumber Company has filed a petition in the Superior Court at Sonoma, seeking dissolution of the corporation. The board of directors, according to the petition, is composed of George R. Hicks, Jesse Andrew, T. M. Barham, P. H. Neyhart and J. C. Rassenfoss.

H. Fowler and P. E. Meyers of San Fernando have purchased a site on a railroad frontage in King City, Monterey County, and will establish a plant for the manufacture of concrete pipe. The plant will be managed by J. R. Clarke who is now in King City arranging building preparations.

Chalm Belt Co., Milwaukee, Wis., has announced the following elections and appointments: C. F. Messenger, vice-president and general manager; Brinton Welser, vice-president and director; A. R. Abelt, secretary; H. S. Greene, general sales manager; W. H. Brandt, assistant to the president.

American Cast Iron Pipe Company, Birmingham, Ala., is completing a new shop at Acipco for the production of mono-cast centrifugal pipe in the larger sizes, from 14 to 24 in., inclusive. The pipe will be of the bell-and-spigot type, with a bead cast on the spigot end, and will be produced in 16-ft. lengths. The new shop will have a potential capacity of 200 tons of pipe per shift, and is so designed that it can be operated 24 hours per day.

A mammoth steel merger was consummated in Detroit, Mich., Nov. 25 when the National Steel Corporation took over the assets and property of the \$30,000,000 Michigan Steel Company. Details of the combine have not been worked out, but the merger is expected to be effected through exchange of stock. The Michigan concern has an annual capacity of 725,000 tons of ingots. The National corporation is a \$120,828,758 holding company.

HERE—THERE EVERYWHERE

American Society of Agricultural Engineers, (Land Reclamation Division), will hold its annual meeting in San Francisco, January 6-7.

In keeping with the trend of the times, the Central Labor Council offices at Portland, Ore., will be closed on Saturday. Practically all of the business offices in the Labor Temple now observe the Saturday closing.

The next Conference of Southern California Builders' Exchanges will be held in Pasadena some time this month, the date to be announced later. It is announced by Secretary George W. Israel of the Pasadena Exchange.

A tour from San Antonio to Mexico City, under the management of the American Express Company, will be a feature of the annual convention of the National Association of Builders' Exchanges, to be held in San Antonio, Texas, in February.

Permission to invest \$30,000,000 in the construction of two paper pulp plants in Alaska has been granted by the Federal Power Commission to I. and D. Zellerbach and George Cameron, all of San Francisco. Combined production will be 365,000 tons of news print annually.

The Santa Rosa Builders' Exchange recently organized with a membership of fifty, will meet December 10 in the Occidental Hotel, that city, when a constitution and by-laws will be adopted. A banquet will precede the meeting.

The Oakland city council has approved an amendment to the plumbing ordinance as recommended by Commissioner Frank Colbourn permitting master plumbers to receive a refund on license fee deposits after all money owed the city is paid. The ordinance previously prevented the master plumbers from getting refunds.

Preliminary preparations are being made for the annual convention of the California State Building Trades Council to be held in Oakland next March. The Hotel Oakland has been selected as the convention headquarters.

Annual convention of the California Certified Boiler and Elevator Inspectors will be held in San Francisco—January 6, 7, 8. John J. Kane, boiler inspector with the San Francisco Board of Public Works, is in charge of arrangements for the meeting.

Organization of a builders' exchange, operating under the name of the Builders' Business Bureau, with headquarters at 532 Emerson street, Palo Alto, is announced by E. P. Lincoln, manager of the bureau. A feature of the exchange quarters is a general reading room for members of the organization. Manufacturers of building materials and equipment are requested to forward catalogs and general information on their products where they will be filed for the convenience of contractors and subcontractors.

TRADE LITERATURE

Rolling steel doors manufactured by the R. C. Mahon & Co., Detroit, Mich., are described in a 36 page illustrated catalog of the company.

Tapping machine cutters and pipe cutters of various types are described in an 8 page bulletin of the Water Works Equipment Co., 50 Church St., New York City.

The advantages of green surfacing on electrodes for metallic arc welding are discussed in a bulletin of the Fusion Welding Corp., Chicago, Ill.

A new catalog of belting, packing, hose, matting and miscellaneous items manufactured by the Diamond Rubber Co., Inc., of Akron, Ohio, has just been issued.

"The Welder's Handbook," a 32 page illustrated bulletin issued by the American Steel & Wire Co., Chicago, and New York City, is a useful manual of welding practice, using either gas or electric current.

"Design and Control of Haydite Concrete Mixtures" is the title of an 8-page illustrated booklet of the Hydraulic-Press Brick Co., St. Louis, Mo. As the title indicates, the bulletin contains suggestions for securing more satisfactory results with Haydite lightweight concrete.

"Ventilating the General Science Building of Antioch College" is the title of an 8-page illustrated Armo Architectural Bulletin No. 3 issued by the American Rolling Mill Co., Middletown, Ohio.

Form clamps and spacers, bar spacers, bolsters and chairs, screen chairs, sleeper anchors, and a multitude of other accessories for concrete construction are described in catalog 490, a 56-page illustrated publication of the Universal Form Clamp Co., 972 Montana St., Chicago, Ill.

Publications of the Link-Belt Co., 910 S Michigan Ave., Chicago, Ill., include a folder describing the Cub portable belt conveyor and a 32-page comprehensive data book on Promal chains for power transmission and conveying services. Dimensions, strengths, list prices and weights are given in this data book.

Mechanical principles involved in the operation of the gas plus air 3-engine gasoline excavator are clearly set forth in a 16-page illustrated bulletin of the Bucyrus-Erie Co., South Milwaukee, Wis. Other recent publications of this company include bulletins on the models 120-B and 160-B, 4 and 3 cu. yd. electric or steam revolving shovels and the models 1030 (¾-cu. yd.) and 1020 (½-cu. yd.) convertible shovels, draglines, drag shovels, and cranes.

OVERTIME REQUEST DEFERRED BY CONTRACTORS

The Cement Contractors' Association of Southern California at their regular meeting November 20 decided not to take any action at this time on the new proposal of the Cement Finishers' Union for time and a half pay for work on Sundays and holidays and for overtime. Several contractors reported the union workers were not all in accord on the new proposal and would take a final vote on it shortly.

ALONG THE LINE

Bert B. Meek, who recently resigned as State Director of Public Works, is reported to have accepted the presidency of California Lands, Inc., with headquarters in San Francisco, at a annini or Bank of America corporation, holding company that supervises salary of \$30,000 a year. California Lands, Inc., is a \$2,000,000 A. P. G. the operation of farm and fruit lands owned by the Giannini interests.

Earl Lee Keny, prominent business man of Redding and a member of the Republican State Central Committee's executive committee, has been named a member of the State Highway Commission by Governor-elect James Rolph. Kelly will succeed Ralph Bull of Eureka.

W. R. Balsinger, 64, assistant to the president of the Carnegie Steel Company and engaged with the steel company for more than a half a century, died in Pittsburgh, Pa., November 27.

Andrew Bowman, 65, former owner of the Bowman Hardware Company of Sacramento, died in that city November 22. Bowman retired from active business about a year ago and had been identified with the hardware business for twenty years.

Paul E. Overend, Sacramento, Northern California field representative of the California Retail Lumbermen's Association, has been appointed state counsellor for California of the Order of Hoo Hoo.

Four San Francisco directors of the Golden Gate Bridge and Highway District, whose terms had expired, have been re-appointed by the Board of Supervisors. They were William P. Elmer, Carl W. Henry, Supervisor William F. Stanton and Congressman Richard J. Welch. Each was appointed to a four-year term.

The city council of Palo Alto has requested the Board of Public Works to employ local labor on public works of the city insofar as is legally possible. The action was taken as a temporary measure while proposed ordinances regulating employment to local labor are being considered. The proposed ordinances were submitted by local interests.

REDWOOD CITY BUILDING PERMIT TOTALS

I. C. Drathman, city building inspector of Redwood City, announces the issuance of 19 building permits during the month of November, 1930, for improvements involving an expenditure of \$32,715. Following is the record for the past eleven months:

Month	Permits	Value
November	19	\$ 32,715
October	38	47,670
September	37	116,730
August	30	87,350
July	20	117,390
June	25	55,330
May	26	54,280
April	29	35,245
March	30	60,575
February	31	115,492
January	29	76,090

ENGINEERING SOCIETIES EMPLOYMENT SERVICE

Further information regarding positions listed in this column is obtainable from Newton D. Cook, Room 715, 57 Post Street, San Francisco. (Phone Sutter 1884).

R-3423-S CIVIL ENGINEER, technical graduate, 30-35 years old, thoroughly experienced on design of steel and concrete girders, trusses, foundations, etc. Salary \$300-\$350 month depending upon experience. Preference will be given to a resident of San Francisco.

R-3418-S MECHANICAL DRAFTSMAN and designer, familiar with wet and dry magnetic iron concentration plants. Salary open. Location, Ohio.

R-3424-S CHEMIST, technical graduate, preferably with advanced degree, to review French and German technical literature in connection with patent causes. Permanent. Salary open. Location, Bay Region.

K-312-W-1462-C-S MECH A N I C A L ENGINEER, with good technical education, experienced in a variety of industrial safety problems, also in organization and public relations work. Apply only by letter. Salary, \$8000 a year. Location, New York and some travelling.

W-499-C-S CIVIL ENGINEER, graduate, with experience in the design and construction of sewers and water works to purchase an interest in an engineering business. Some experience in electrical engineering desirable. Apply only by letter. Location, Kansas City.

K-325-W-1919-S ENGINEER, who has designed heat exchangers including calculations. Oil refinery experience is essential. An engineer who has been with the Braun Corp. would have the experience. Salary, \$6000 a year, perhaps more. Location, vicinity of New York City.

K-327-W-1946-C-S CONSULTING CIVIL ENGINEER, to supervise structural design and construction of steel plant and advise on decision of all questions arising in design of buildings. Apply by letter. Location, United States. Headquarters, New York City.

CONSTRUCTION CENSUS WILL AID INDUSTRY

Construction statistics compiled as a result of the 1920 census of manufacturing and distribution will be available for the bay district early next year, W. O. Ash, district manager of the United States Bureau of Foreign and Domestic Commerce, announces. He said this will be the first complete statistical information on the construction industry, second in importance in America, and the census tabulations will be a handbook of the existing absolute and potential markets available in the building and improvement field.

Ash announces: "Through a careful study of the statistics covering the activities of the construction group, the manufacturer of building materials will be in a position to determine the best sales area for his particular product. Similarly, wholesaler and retailer will be informed."

A. T. Pratt, 54, former engineer for the California State Highway Commission, died suddenly in a Sacramento hospital, last Sunday. He was a native of Indiana.

STABLE, DURABLE AND ECONOMICAL BUILDINGS IS PLAN OF STATE DEPARTMENT

(By D. C. Willett, Associate Structural Engineer,
State Division of Architecture)

In the design of a building, the first and foremost factor is utility, that is, designing the building for the purpose for which it is to be used. Another very important factor is the esthetic. These two are products of the architect. The mechanical comforts of the building are supplied by the mechanical and electrical engineer. Stability and durability are dependent upon the structural engineer, and upon the economy with which these are obtained, his efficiency is determined. In the past, mathematics played but little part in design. What had been found by experience to be safe practice was handed down from one generation to the next. Progress through trial and error from one innovation to the next was necessarily slow; but scientific research has developed more or less accurate data on the properties of material, so that with our mathematical knowledge and skill the design of a structure is now an almost exact science, which takes into account all of the stresses to which the building may subsequently be subjected.

Approximately \$4,000,000 per year has been allotted to provide for the new buildings required by California's some sixty institutions. Between 40 and 50 per cent of this amount is spent in assuring the structural stability of the buildings.

The architect provides the structural engineer with plans and elevations of the proposed building, and providing for the structural stability of the building, the engineer attacks his problem in the reverse. The builder starts from the foundation, while the engineer begins from the roof and works down, providing for the loads as they accumulate from the roof and floor.

The first problem is: What are the requirements laid down by the architect? Knowing these, what is the most economical material to use that will give the stability and durability required? Determined upon the materials, the engineer first provides for the actual load of the materials, known as dead load, a constant load that must be carried. To this he adds the varied loads that are immediately applied, such as wind, snow and other applied loads, known as live loads. The next and important problem is: What is the deflection of themissible sag allowed in the various structural members?

Knowing the load and the permissible deflection, size of the structural members can be obtained. The limitation of deflection, and not the loads, determines the size of a structural member in many cases. In this way, the size of each structural member of the building is determined until the footings are reached. Knowing the loads from the structure above, and by predetermining the bearing value of the soil on which the building is placed, the size of the footings is determined. In designing a foundation, it is important that the loads be equally distributed over the entire area so that unequal settlement will not occur to crack the building.

Not only is it important that the most economical material be used, but the most economical layout and use of materials must be had. An engineer may be able to design and properly provide for the superimposed loads that are to be carried, and at the same time be far from an efficient engineer. To this the state is

always on its guard. There are many ways in which the structure can be framed, but some are more economical than others. An economical design should also be a balanced design; that is, a design in which the strength of the various units is equal, considering the loads carried. A chain is no stronger than its weakest link. So it is with a structure. In other words, it is a waste to design or build one unit stronger than necessary or twice as strong as another carrying corresponding loads.

Structural Materials

The many structural materials now used can be classed in four general groups, which are, timber, masonry, steel and concrete.

In the determination of the material that will be used in any building, consideration is given to the relative merits and demerits of the various materials; namely, the material of first reference to the use to which the building is to be put and any peculiar condition that may characterize the site. It is these conditions that determine the real cost of the material, and the economy of its use. Without entering into the discussion of the relative strength or weakness of these materials, it might be well to add a word relative to concrete.

Concrete

Concrete differs from most of the other structural materials in that it must be manufactured at the job. Reinforced concrete has become a universal material in construction and is proving a very durable one even with the careless methods of construction. From a financial standpoint, speed is of prime importance to construction; but this demand for speed and time saving has resulted in careless working methods, thus reducing the strength of concrete. Physical characteristics of concrete are determined not only by the quality of the several materials which enter into it, but perhaps to a greater degree by the proportions in which the materials are mixed; for the proper proportioning of fine and coarse aggregates may double the strength. It is a matter of common experience that the old method of arbitrary selection in which fixed quantities of fine and coarse aggregates were used. As regards to the size and grading of the individual materials, is far from satisfactory. Not only is it essential that the aggregates be properly graded and proportioned, but the proper amount of mixing water must be used. Tests have shown that an increase of 23 per cent in the mixing water caused the same reduction in strength as if 33 per cent of the cement is omitted.

The aggregates, which form about 85 per cent of the structural material of a concrete building, are in cases obtained at or near the institutions. This tends to a greater economy of concrete.

The proper placement of the reinforcing in the concrete is another very important feature in concrete construction. Allowing the reinforcement of the average floor slab to be dropped one-half inch from the top surface shown is equivalent to a reduction in the strength of the slab of approximately 30 per cent.

By the proper selection of the structural materials, the economical use of these materials, providing properly for the loads to be carried and by proper and intelligent inspection, eliminating

the reliance on construction in the state provided with stable, durable and economical buildings.

METAL CONGRESS CONVENES HERE IN FEBRUARY

Announced for the second time in the West the National Western Metal Congress and Metal and Machinery Exposition will be held February 16 to 20 in the Civic Auditorium, San Francisco.

Headquarters have been opened in the auditorium building, where W. H. Eisenman, of Cleveland, secretary of the American Society of Steel Treating, is making arrangements for the affair, which will be a treatise on everything pertaining to metals and machinery.

Thirteen prominent technical engineering societies, as follows, are co-operating in preparation of special session programs, calculated to bring much new technical information before the delegates and others in attendance.

American Chemical Society, American Institute of Electrical Engineers, American Institute of Mining and Metallurgical Engineers, American Society for Steel Treating, American Welding Society, National Purchasing Agents' Association, Institute of Metals, Pacific Coast Electrical Association, Pacific Coast Gas Association, Society of Automotive Engineers, American Society for Testing Materials, National Association of Power Engineers and American Society of Mechanical Engineers.

Probably 5000 industrial heads, technical engineers and metallurgists will attend the congress, and twelve times that many are expected at the exhibition. Held two years ago at Los Angeles, the event was a decided success. The San Francisco meeting is expected to be a bigger one.

UNEMPLOYMENT IS REFLECTED IN STATE STATISTICS

Will J. French, director of the department of industrial relations, has advised Governor C. C. Young that the state free employment agencies found jobs for 12,252 men and women in October, compared with 15,114 in October, 1929. This is a decrease of 32.5 per cent. It was an increase of sixty-one over September this year, however.

The total weekly payrolls for 810 representative California industries were \$479,911 less in October than in September. The number employed in these 810 factories was 149,301 in October, a decrease of 19,163 or 11.4 per cent below September.

The total weekly payrolls of these industries in October was \$4,361,204, compared with \$4,723,195 in October, 1929, a decrease of \$1,361,991, or 23.8 per cent. In October, 1929, these same industries had 183,798 employees, 34,297 more than for last month, making the decrease 18.7 per cent.

The division of labor statistics and law enforcement collected \$97,663 in delinquent wages last month as compared with \$96,307 in October, 1929.

Building permits issued in November by A. J. Hurley, city building inspector of Richmond, involve an expenditure of \$41,322 as compared with \$28,550 for the corresponding period last year. Last month five permits were granted for homes costing \$16,200 and for two business structures costing \$12,000.

W. R. Dunn, San Francisco attorney, has been appointed counsel for the Pacific Gas and Electric Company. He will maintain headquarters in San Francisco.

QUANTITY SURVEYOR'S STATUS WITH RELATION TO THE OWNER

(By Ralf Toensfeld, Manager, G. E. Wells Co., St. Louis, Mo.)

Paper submitted at the 1930 convention of the American Institute of Quantity Surveyors.

The "Quantity Surveyor's Status in Relation to the Owner" is today not all that might be desired. This relationship should be one of a very confidential nature, one that would lend itself to implicit faith in each other's integrity. The "Quantity Surveyor's Status in Relation to the Owner" should be on a par with that of the owner's attorney, his architect, and his engineer.

Unfortunately, this is frequently not the case, and I believe it is primarily because the quantity surveyor is too often employed by the contractor instead of by the owner. While the surveyor may be just as conscientious of the owner's interest in his dealings with his clients, the very fact that he is employed by the contractor makes him a part of the contractor's organization in the eyes of the owner.

Obviously the owner believes that a member of a contractor's organization cannot be impartial in matters involving the interest of the contractor as opposed to that of the owner. The owner naturally therefore looks on the surveyor, in instances of this kind, with more or less suspicion and probably in some cases rightfully so.

Serve Clients' Interest

The Quantity Surveyor, like any other professional man, must serve his client to his client's best interest. Is it therefore, reasonable to expect that he should resolve any doubts in his mind in favor of his client when he is employed by the contractor? In any controversy that may arise must he not side with the contractor as far as his conscience will permit? Why then should not the owner look upon him with suspicion even though he may be absolutely honest and conscientious in his findings?

The quantity surveyor is frequently retained by one or more contractors for the reason that he is more accurate and that he can do the work more cheaply than the contractor's own organization. It is therefore quite logical that the quantity surveyor serve in this capacity. Any owner can see the reason for such employment, and can visualize the savings made by the contractor with such arrangement. The owner, however, when he gets his figure, is unable to ascertain that he himself has gained through this employment. He is almost invariably certain that the economies effected are not even partially passed on to him. As a matter of fact, figures based on a conscientious, thorough survey of quantities, as done by a quantity surveyor are frequently higher in competitive bidding than those made up on a more or less slip shod basis.

Low Bidder Sacrifices

If the owner finds that out, the quantity surveyor's "Goose is Cooked" regardless of the fact that the high bid may be a far more legitimate price than the low bid. He does not find out until a long while afterward that the low bidder has left out something, or estimated some of the many quantities that must go into the job too low, hence he must skimp later on to make up for his short coming in the estimate.

There is at the present time, a growing tendency for the formation of contractor's associations whose objects among other things are, the reductions of costs to the contractor. Usually the first step after the for-

mation of such an association is the organization of an estimating bureau. This bureau is organized to do nothing but quantity surveying and to furnish these quantities to all the interested contractors in the association. Probably this form of quantity surveying is the most objectionable form to the owner. Even if it is done conscientiously, as it is no doubt done in most instances, it is done from the viewpoint of the contractor and not the owner.

These bureaus are organized for the protection of the contractor. In order to protect the contractor it is necessary that the quantities taken off must be sufficiently high to assure their adequacy for the installation. Now then, in this scheme of things, all contractors are furnished the same quantities for the same installations. No contractor, therefore, can enjoy an advantage in bidding because he estimated more closely than the others. No contractor will get a job because he forgot something. What incentive is there then for the estimating bureau for accuracy? So long as quantities are sufficiently large the contractors interested have been protected. If quantities are too high and the material actually installed is less than estimated the contractor's interest has even been improved since his profits increase.

A central estimating bureau of this kind, when supported by the contractors, must necessarily be run on a minimum outlay. It follows that it must be very busy and that it must do its work as quickly as possible. Wouldn't the tendency under such conditions be to gamble a bit at times, of course, on the safe side, instead of doing the painstaking duty necessary for accuracy? I think it would and I believe you think so too. It is no wonder that the prospective building owner looks upon these practices with some misgiving.

There is another practice that may lead to insidious results and that is the inclusion of the labor union influence in the control of estimating bureaus.

Labor unions are an excellent accomplishment, I think we are all agreed to that. They have been and are now indispensable in bettering the condition of skilled labor and maintaining the higher level. But they do not belong in the contracting business, nor should their influence be felt in Quantity Surveying.

Some bureaus now make it a practice to include labor hours in the quantities they furnish the contractors. You can easily imagine what would happen were the labor influence allowed this feature of the survey. And if this item were to get into the hands of the workmen themselves, any liberality in the estimates would not even redound to the advantage of the contractor.

No, gentlemen, this is not the way out. Every one should get a square deal, including the owner. He must get what he pays for, no more, and no less; the contractor must be paid for what he gives, no more and no less; the laborer must receive an equitable wage for a good day's work, no more and no less; if the building industry is to survive.

Surveyor Employer of Owner

The way out is to place the quantity surveyor upon the same plane as the architect and the engineers; make him an employer of the owner. Let him work direct for the owner in conjunction with the architect and en-

gineer, or let him work for the architect and engineer with the consent of the owner. Let every set of plans when it leaves the architect's hands, be accompanied by a detailed quantity survey, so that all contractors who are invited to bid, will be fully informed as to exactly what they must furnish. Then and then only will contracts be let upon an absolutely equitable basis.

The difficulty in bringing this about consists entirely in persuading the owner that it will be best for him. And that, gentlemen, is one of your big jobs. You must convince him first that it will cost him less, that the fee he pays will be more than offset by the absence in the contractor's bid of an item covering the same work on not only his job, but also perhaps ten or twelve other jobs he figured and lost; second, that it will pay him, because the contractor's figure will be based upon what actually goes into the job, with no large allowance for overights; third, that he will not be bothered by a low bidder, who will later on argue throughout the job, picking flaws in the plans and specifications, wherever he can, in order to get an extra, and thus increase the cost, because he overlooked something.

The American Institute of Quantity Surveyors must convince the owner that placing himself in your hands will give him the lowest possible legitimate cost and assure him of getting exactly what is specified, without extras, without arguments.

CREOSOTED WOOD PROMOTION PROPOSED

A campaign to promote the use of forest products preserved by creosote oil is to be instituted by the Southern Creosoters' Association, according to E. S. Manley, vice-president of the organization and president of the Texas Creosoting Co., says The Business Week.

The role that can be played by creosote in forest conservation will be stressed in the campaign. The total quantity of wood treated in 1929 was 362 million cubic feet, an increase of 21 million (8%) over 1928. Railroad cross ties constitute the bulk of timber treated with preservatives.

Mexico has already recognized the importance of wood preservatives in forest conservation; has a law which provides that all timber placed in the ground must be treated. Although such a law has been urged upon Congress from time to time by various groups, little headway has been made.

Creosoting specialists point out that large amounts of money are being spent yearly in construction of costly bridges of steel and concrete, maintain that bridges of treated timber would serve the purpose equally well.

BURLINGAME ORDINANCE WILL FIGHT TERMITES

Burlingame, Calif., is preparing to combat the invasion of termites by drafting an amendment to the city's building ordinance stipulating use of certain materials in construction.

Action on this was taken at the last meeting of the city council which, at the recommendation of Building Inspector Albert Krug, instructed City Attorney John F. Davis to draw up the addition to the ordinance. A Los Angeles ordinance will be used as a pattern for the Burlingame measure.

According to Building Inspector Krug there is a prevalence of termites in Burlingame necessitating the adoption of their growth and spread in new buildings.

QUALITIES OF CONCRETE IMPROVED BY NEW EMULSION

A new emulsion designed to give standard portland cements the combined desirable qualities of both high early strength cements and plastic waterproof cements has been introduced in Southern California and used with most satisfactory results, according to the manufacturers. It is marketed under the trade name, "Suconem," and made under a formula perfected by a prominent portland cement chemist, for many years a resident of Southern California, and closely identified with the cement industry. He discovered that an emulsion of chemical solution in a specially refined oil would, when added to portland cement mixtures, not only give them the properties of the high early strength and hydro-plastic cements, but would also greatly reduce the quantity of water needed for mixing and prevent the segregation of aggregates in the fluid concrete.

When this emulsion was first used in concrete, it was noticed that there was a great apparent increase in fluidity and that the slump was usually double that of an ordinary mixture containing the same amount of water. This highly desirable characteristic was taken advantage of by reducing the amount of mixing water until the slump was the same as that of a similar concrete when it was found that approximately a third of the mixing water could be eliminated without reducing the slump. The result of this reduced water content is apparent in the finished concrete, which attains 28-day strength in two or three days and is from 15 to 20 per cent stronger than similar concrete, without the emulsion, at the end of the year, the manufacturers assert. The shrinkage was also greatly reduced and the finish concrete was noticeably free from checks and cracks.

Reduction in shrinkage is largely responsible for the excellent results obtained in bonding new concrete to old, it is stated, as it has been found that this emulsion does away with the trouble previously encountered on this class of work.

The reduced water content, when this emulsion is used, accounts for greatly reduced form leakage and where forms are not watertight and, since there is no extra water to rise prevents unsightly honeycombing to the surface, no laitance appears

and the usual porous water-streaked top of a day's pour is absent, it is pointed out. Finished surfaces are harder and smoother for the same reason.

This emulsion gives workability and plasticity to concrete not heretofore known, it is claimed. The concrete is exceedingly fat and plastic, works readily into place, and moulds perfectly to the forms against which it is cast, without the use of excessive amount of effort to secure proper placing. High early strength of concrete results in a remarkable absence of broken corners and edges and other construction blemishes, due to the fact that the early hardness makes it much more resistant to hard usage.

The emulsion introduces into the concrete a small amount of mineral oil in minutely divided particles which spreads through the concrete and in no way delays the mixing. The oil gives to the concrete remarkable plasticity and at the same time makes it highly resistant to the passage and absorption of moisture. Because of the emulsification of this oil, it has no tendency to collect on the surface and to cause trouble from any other source.

The high resistance to absorption of moisture obtained by use of this emulsion is also desirable in reducing the expansion and contraction of concrete caused by alternate wetting and drying. When it is considered that the difference in volume between wet and dry concrete is equal to that caused by a temperature change of 100 degrees Fahrenheit, the importance of this quality is apparent.

The presence of the oil in the final state slightly increases the viscosity of the fluid concrete, which holds the aggregate in suspension in the liquid mass and permits the hauling of freshly mixed concrete without segregation and without initial set or loss of workability. This not only makes it possible to easily handle concrete from centrally located mixing plants, but also improves the quality of concrete upon jobs where either spouting systems or buggies are used in placing concrete.

"Suconem" is manufactured by Super-Concrete Emulsions, Ltd., 3710 S. Alameda St., Los Angeles, which controls all patent rights in the United States and foreign countries.

fidence in himself and in the craft that bore him. The crowds gathered to greet him would not have been there but for communication engineering.

A hundred years ago Richard H. Dana made a memorable voyage from the coast of New England to the settlements along the seaboard that is now California. In his chronicle, "Two Years Before the Mast," he described a thrilling and perilous sail of six months' duration in either direction. Today mighty steamships accomplish the same objective in a comparatively few days. These noble vessels of commerce are lifted bodily over the ascent in the terrain between the Atlantic and the Pacific ends of the Panama Canal.

Now we journey across the continent in luxurious railway trains in less time than Meriwether Lewis and William Clark spent in preparation to cross a swollen river on their great adventure into the Northwest.

In 1672 Governor Lovelace of New York decreed that a post should go monthly between New York and Boston. The pioneer postman made his way through the trackless forest, and it was a part of his duty to mark the trees for travelers who might wish to follow him. Today a letter mailed in New York City on Monday may be delivered in San Francisco on Wednesday.

Electric lights take the place of tallow candles. In a comfortable temperature of 75 degrees we sit in a theater and enjoy a motion picture, in connection with which the speech of the actors is reproduced while at the same time the street temperature may be 100 degrees or more. We breathe fresh air that is changed throughout the auditorium every five minutes.

An important event occurs in the United States on Saturday and news of it is read on the other side of the world while it is still Friday there.

We sit in the comfort of our homes and hear the King of England speak. Soon we shall see a likeness of the speaker.

The French failed in their attempt to connect the Atlantic and the Pacific by a canal. Disease baffled them. Sanitary engineering made our success possible.

Chemical engineering has revolutionized our industries. Refrigeration engineering gives us fresh fruits and vegetables the year round.

Friday's newspapers are read on Thursday night and October magazines are on the news stands in September.

Concentration of population in cities resulted in a problem which was solved by office buildings taller than the Washington monument. This in turn brought another problem, which steam, electric, and automotive engineering solved by making it possible for us to live miles away from our places of business.

I could go on for hours talking about the things that engineers have given to promote commerce, comfort, and contentment. Who can even approximate the sum total of the value of these great achievements? It can be said, though, that modern civilization would not have been possible but for the mighty works of engineers.

It seems that sometime we must reach the limit of scientific discovery and inventive achievement, but, as someone has said, if we would look into the future, we should read history. Progress in engineering, invention and discovery in the past half century is the best kind of basis for the belief that the wonders of today will be the commonplace of tomorrow, and that developments not now dreamed of will help our grandchildren over the rough spots of life. This reminds me that a commissioner of patents who held office about 1870 is said to have explained his resignation

CIVIL SERVICE CHIEF SEES HUMAN SIDE OF ENGINEERING

To me the human side of engineering has two aspects, one personal, the other social. The personal phase is the opportunity that any branch of engineering gives as an outlet for the creative instinct that is a part of every normal man's nature. The contributions of engineering to the development of civilization and the general well-being of mankind are social in the broadest sense.

I have often thought that an author must feel a deep satisfaction when he holds in his hands a worthwhile book and can say, "I created this; I gave this to my fellow men." An engineer has the same justifiable pride when he looks upon a magnificent building, a huge and powerful dam, a safe and colossal bridge, and knows that he had at least a part in

bringing the great work into being. The book, the building, the dam, the bridge, all are manifestations of "the power of thought, the mighty magic of the mind."

It is not possible even to estimate the value of engineering in the development of industry, of government, of standards of living, of social relations of every kind. We can only say that engineering is essential.

Engineering Achievements

A fair-haired American youth dropped from the clouds to the soil of France and naively announced to the thousands awaiting his arrival, "I am Charles Lindbergh." Just as though anyone in the throng had any doubt as to who he was! Lindbergh's epoch-making achievement was made possible by engineering. He had full con-

by his belief that everything discoverable had been discovered and that inventive genius had accomplished the final goal.

Government Engineers

The United States Government is the largest employer of engineers in the world. Included in the Federal civil service alone there are more than 3,500 professional engineers. Their activities embrace practically every branch of endeavor to which engineering is applied. Those engaged in the better-known branches of engineering predominate, of course. We find Government engineers doing such interesting and humane things as investigating causes of dust explosions in mills and trying to prevent them; developing improved means of preventing farm fires; endeavoring to make mining safe for miners; conserving our natural resources and reclaiming arid lands; charting the seas; studying stream pollution and everything else that has to do with sanitary engineering; improving waterways, and hundreds of other things for your benefit and mine. In a little booklet distributed by the Civil Service Commission, bearing the title "Opportunities for Engineers in the United States Civil Service," it is shown that 69 engineering specialties are represented in the civil service of the United States.

The outstanding appeal that the Federal civil service makes to the engineering graduate is the opportunity it affords for constructive public service. The civil service of the United States will not make you rich. The entrance salaries offered to recent graduates are quite as good as, and often better than, those paid in private employment. Demonstrated ability is rewarded by promotion, but in around \$9,000 a year is the limit in the classified service, and few, of course, attain that grade. But the Government service offers a wide field of opportunity where individual tastes may be developed and where real constructive work may be done.

There are eight grades of engineers in the Federal civil service. The lowest is designated the junior grade, for which the annual salaries range from \$5,000 to \$2,500 a year. The highest is called chief engineer, and the salaries for this grade range from \$8,900 to \$9,000 a year.

The basis for rating junior engineers is their formal education, not to exceed two years of which may be substituted by practical experience, and a written test in an examination room. Above the junior grade no written test is required. For these higher grades the competitors are rated on their education, training, and experience, and, in some cases, on their writings on engineering subjects. The experience requirements for the higher positions become more exacting as to length and quality in proportion to the responsibility and difficulty of the work for which the examination is held.

When the Commission adopted this so-called unassembled type of examination for the higher positions it decided to some extent a source of entertainment in the Examining Division. For example, a competitor in an examination for teacher in the Indian Service said that the plural of solo was duet. In a political economy examination the two principal functions of money were said to be "to have and to hold." Another defined the term "balance of trade" as "a good deal more in all cases." The largest sound in the State of Washington is "the roaring of the waves," said another. But I digress.

The Civil Service Commission is conscious of the responsibility resting upon it in the performance of its duty of supplying through competitive tests the hundreds of engineers of various kinds demanded each year by the sev-

eral departments and independent offices of the Government. The Commission is proud, and justly so, in the knowledge that it has a part in selecting for the Government these men who are to devote to the service of all the people the strength of their minds and their knowledge gained through years of study and effort.

The Hoover Dam

Just at this time the most spectacular engineering project in the United States is, of course, the Hoover Dam. It is the biggest thing since the Panama Canal. Its three purposes, reclamation of arid lands, flood control, and power development, constitute it an outstanding contribution to the development of our country and to the safety, convenience, and progress of our people. The Secretary of the Interior, in naming the dam, honored an engineer of note.

While construction work on the Hoover Dam will be let to private contractors, the Bureau of Reclamation must employ a large number of engineers, for design and experimental work at the beginning, and for inspection as the work progresses. The Civil Service Commission must supply these engineers through its examinations.

In connection with this work the Civil Service Commission recently established a speed record in announcing and holding examinations and certifying eligibles. Late in July the Bureau of Reclamation called upon the Commission for eligibles to fill fourteen positions of civil, mechanical, and electrical engineers at salaries ranging from \$3,800 to \$6,400 a year. Eligibles were not available and examinations had to be held. A week later examinations had been prepared for these high-grade positions and the draft of the announcement went to the Government Printing Office. Within that week information had to be obtained from the Denver office of the Reclamation Service as to the duties of the several kinds and grades of positions. The printed announcement was delivered to the Commission by the Government Printing Office on August 7 with September 10 shown as to the date for the close of receipt of applications. The requirement of open competition made it necessary to give publicity to the examinations throughout the country, thus giving all qualified persons an opportunity to compete. Eleven hundred and twenty applications were received and 344 eligibles resulted. Three weeks after September 10, the closing date, the rating was completed and the certification of eligibles was in the Bureau of Reclamation.

On August 29 the Bureau of Reclamation asked the Commission to certify eligibles for eight positions of junior civil engineer. The certificate was sent by messenger the same day. This was possible because of the Commission's policy of maintaining registers for the junior technical and professional positions.

The Commissioner of Reclamation was so pleased by the Civil Service Commission's prompt service in both these cases that he addressed a letter to the Commission expressing his appreciation.

I mention these things to show that red tape can be cut when necessity exists. To those of you who are engineers in the Federal service I wish to say that the Civil Service Commission can serve the departments better if the departments anticipate their needs and do not wait until vacancies exist before calling upon the Commission to establish registers of eligibles.

War and Peace

The achievements of engineers I have discussed have to do with the problems of peace. The term engineering, however, as you know of course, in its early uses referred specially to

the operations of those who constructed engines of war and executed works intended to serve military purposes. Such military engineers were long the only ones to whom the title was applied, but about the middle of the 18th century there began to arise a new class of engineers who concerned themselves with work which, though they might be in some cases, as in the making of roads, of the same character as those undertaken by military engineers, were neither exclusively military in purpose nor executed by soldiers. These men, by way of distinction, came to be known as civil engineers. Civil engineers were described as those engaged in the art of directing the great sources of power in nature for the use and convenience of man. Perhaps the first branch to be recognized as separate was mechanical engineering. This was soon followed by mining engineering, and later by marine engineering, sanitary engineering, chemical engineering and electrical engineering, until today we have a hundred or more engineering specialties.

War continues to be a major function of engineering activities. Recent developments in mechanical and chemical appliances and compounds are ground for the belief that engineers can make war so horrible that it will be unthinkable to sane minds. But war and sanity have nothing in common, and if lasting peace throughout the world is ever to be attained it seems that it will not come through war, but through better understanding among men and nations of the problems and purposes of individuals and of governments. Every improvement in communication between nations, every step which cuts down distance and time, tends to better understanding and therefore to the possibility of peace. We are moving toward a world economy. Engineering is an important factor in the advance toward real civilization. If peace comes, engineers will help to light the way.

STOCKTON BUILDING PERMITS

Fifty building permits were granted in Stockton during November for improvements valued at \$41,600 as compared with fifty-five permits for \$40,005 during the corresponding period in 1929, it is announced by Wm. Curtis, city building inspector.

The past month's record was the smallest this year and below that of last month when new permits aggregated \$70,195. The majority of last month's business was for six new residential buildings which are under way at a cost of \$25,550.

Permits for 15 new non-residential buildings were granted, aggregating \$9573. Installation of six new signs totaled \$4112. Thirty small additions and alterations were listed at \$9573.

SACRAMENTO BUILDING RUNS \$145,004 IN NOVEMBER

J. R. Shields, city building inspector of Sacramento, reports the issuance of 125 permits during the month of November for improvements aggregating an expenditure of \$145,004 as compared with 158 permits for \$382,714 for the corresponding period in 1929.

During the past twelve months 1666 permits have been issued, the cost of the work being estimated at \$2,775,661 as compared with 1725 permits for the same period in 1929 when the total registered \$4,291,936.

Home building is the most active construction in Sacramento. During November permits were issued for 14 one-family residences costing \$50,100.

Building News Section

APARTMENTS

Plans Being Prepared.

APARTMENTS Cost, \$300,000
PORTLAND, Oregon. Near Central Business Section.

Eight-story and basement reinforced concrete apartments, 100x100 feet, (76 two room; several three and four-room apts.)

Owner—Withheld.

Plans by Elmer E. Feig, Guaranty Trust Bldg., Portland.

Sheet Metal Contract Awarded.

APARTMENTS Cost, \$85,000
OAKLAND, Alameda Co., Cal. 62nd near College Ave.

Three-story frame and stucco apartment with concrete basement (30 2-3- and 4-room apts.)

Owner—A. Jensen, care architect.
 Architect—H. K. Jensen, 354 Hobart St., Oakland.

Sheet Metal—Christensen & Gutsch, 4279 Piedmont Ave., Piedmont.

As previously reported, plumbing and steam heating awarded to E. O. Dryer, 1918 Lakeshore Blvd., Oakland; electrical work to Fritz Elec. Co., 538 Webster St., Oakland; structural steel to McGrath Steel Co., 354 Hobart St., Oakland; lumber to Smith Lumber Co., foot of 18th Ave., Oakland; pans to Steelform Contracting Co., Monadnock Bldg., San Francisco.

Completing Plans.

APARTMENTS Cost, \$100,000
LOS ANGELES, Cal. SW Juanita and Oakwood Sts.

Four-story Class C brick apartments (55x150 feet) (87 rooms).

Owner—Withheld.

Architect—C. Waldo Powers, Insurance Exchange Bldg., Los Angeles

Preliminary Plans Being Prepared.

APARTMENTS Cost, Approx. \$20,000
SANTA ROSA, Sonoma Co., Cal. Seventh and A Sts.

Two-story frame and stucco apartments (6 apts.)

Owner—P. Gambini and S. Testorelli, Santa Rosa.

Architect—William Herbert, Rosenberg Bldg., Santa Rosa.

Owner Taking Segregated Bids.

APARTMENTS Cost approx. \$18,000
OAKLAND, Alameda Co., Cal. Park Boulevard

Two-story and basement frame and stucco apartments.

Owner—H. E. Lansing, 2316 14th Ave., Oakland.

Architect—F. H. Slcombe, 62 York Drive, Piedmont.

Segregated bids are wanted on plumbing, heating, plastering, excavating, concrete work, carpenter labor, wiring, tile work, masonry hardware refrigerations, wrought iron, sheet metal, linoleum, and shades.

It is expected to start construction in about ten days.

REDLANDS, San Bernardino Co., Cal.—R. W. Brown, Riverside and Oakland, will erect a three-story apartment-hotel building on East State Street for a Redlands syndicate. Plans prepared by E. Voellmy of Redlands. It will be a concrete-tile structure, containing 82 rooms, and will cost about \$100,000.

Contract Awarded.

APTS. & STORES Cost, \$10,000
SAN FRANCISCO, N Judah Street N 29th Avenue.

Two-story and basement frame and stucco apts. and stores.

Owner—St. George Holden, 2901 Russ Building.

Architect—C. F. Strothoff, 2274 15th Street.

Contractor—W. L. Terry, 90 Allison Way.

Preparing Plans.

APARTMENTS Cost, \$250,000
LOS ANGELES, Cal. N-Marina St. Seven-story and basement Class A reinforced concrete apartments.

Owner—Withheld.

Architect—Christopher Totten, Prescott, Arizona.

Plans Completed.

APARTMENTS Cost, \$200,000
LOS ANGELES, Cal. E Menlo St., bet. Tenth and Eleventh Sts. Five-story and basement Class B reinforced concrete apartments (178 x46 feet).

Owner—Mable L. Smith.

Architect—W. Douglas Lee, Textile Center Bldg., Los Angeles.

Plans Being Figured.

APARTMENTS Cost, \$15,000
BURLINGAME, San Mateo Co., Cal. Broadway near California Drive. One-story and mezzanine floor reinforced concrete apts. and stores. Owner—Peter Lemperopolus. Architect—Russell Coleman, 1404 Broadway, Burlingame.

Completing Plans.

APARTMENTS Cost, \$50,000
BURLINGAME, San Mateo Co., Cal. El Camino Real (44x92-ft.).

Three-story frame and stucco apartments with reinforced concrete basement (15 2- and 3-room apts.)

Owner—R. Noble, 427 8th Ave., San Francisco.

Architect—Chester Treichel, American Bldg., Oakland.

Owner will take segregated bids in a few days.

Segregated Bids Being Taken.

APARTMENTS Cost approx. \$50,000
SAN JOSE, Santa Clara Co., Calif. Mariposa and Race Sts.

SKILSAW Portable Electric Hand Saws (4 models).

SKILSAW Portable Electric Sander
SKILSAW Radial Arm Attachments.

SYNTRON Portable Electric Hammers (4 models, motorless).

MALL Flexible Shaft Machines (50 models).

Electric Drills, Grinders, Buffers, Routers, Lock Mortisers.

PETER H. NELSON

Labor Saving Portable Electric Tools.

1248 Mission St. Underhill
 San Francisco 7662
 SALES . SERVICE . RENTALS

Two-story and basement frame and stucco apartments (8 apts.)

Owner—W. Hudges.

Architect—Charles McKenzie, Twohy Bldg., San Jose.

Sub-Contracts Awarded.

APARTMENTS Cost, \$30,000
SAN FRANCISCO, SE Pierce and Union Streets.

Three-story and basement frame and stucco apartment with tile roof (5 5-room apts.) and 11-room residence with 3 baths (70x70-ft.)

Owner—W. J. Raffetto, 401 Columbus Avenue.

Architect—Albert Schroepfer, 681 Market Street.

Contractor—Franchella & Truffell, 2450 Chestnut Street.

Lumber—San Francisco Lumber Co., foot of Mason St.

Structural Steel—McClintic Marshall Co., 2050 Eryant St.

Electric—Crown Electric Co., 153 Eddy Street.

Ornamental Iron—Star Ornamental Iron Works, 1271 Folsom St.

Concrete—A. Dini, 187 Irvington Ave.

Plumbing and Heating—F. J. Klimm, 456 Ellis St.

Plastering and Lathing—E. E. Valentino, 3132 Octavia St.

Mill Work—J. A. Hart Mill & Lumber Co., Jerrold and Napoleon Sts.

Sheet Metal and Patent Flue—J. De Luchi, 2240 Leavenworth St.

There will be two separate entrances to the building. Steam vapor heating system and all modern conveniences

BONDS

VISALIA, Tulare Co., Calif.—Election will be held December 18 in the Linwood School District to vote bonds of \$7,000 to finance erection of a new school. Trustees of the district are: C. M. Raibley, D. J. Reese and Clifford Russell (clerk).

CHURCHES

Permit Applied For.

CHURCH Cost, \$8500
BERKELEY, Alameda Co., Cal. 1521 Derby Street.

One-story and basement frame and stucco church (5 rooms)

Owner—Free Methodist Church, Berkeley.

Plans by G. W. Slack, 2412 Acton St., Berkeley.

Bids To Be Taken In One Week.

CHURCH Cost, \$70,000
OAKLAND, Alameda Co., Cal. Emerson and Excelsior Aves.

Reinforced concrete church.

Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco

Architect—W. E. Schirmer, 700 21st St., Oakland.

Reinforcing Steel Contract Awarded.

ALTERATIONS Cost, \$22,100
OAKLAND, Alameda Co., Cal. East 11th St. and Fruitvale Ave.

Alterations and additions to church (2 vestibules, cover, porch, etc.)

Owner—Third Church of Christ, Scientist, 1612 Fruitvale Ave., Oakland.

Architect—Henry E. Guttererson, 526 Powell St., San Francisco.

Contractor—A. Cedarberg, 1475 Excelsior Blvd., Oakland.

Reinforcing Steel—Sault Steel Co., Call Bldg., San Francisco.

Contracts Awarded.

CHURCH Cost, \$6500
WILLOWS, Glenn Co., Cal.
One-story frame and stucco church.
Owner—First Church Christ Scientist,
Willows.

Architect—Otto Delchmann, 110 Sutter
St., San Francisco.

Carpentry—A. Remiter, Artois, \$2,989.
Plumbing—Ralph Flagg, Willows,
\$500.

Plastering—Herman Bosch, 449 Fulton
St., \$1,675.

Completing Plans.

CONVENT Cost, \$—
LOS ANGELES, Cal. Selma Avenue.
Two-story and basement frame con-
vent (16 bedrooms, chapel, com-
munity room, service dept. and
laundry)

Owner—Roman Catholic Bishop of
Los Angeles and San Diego.

Architect—Emmett G. Martin, Chester
Williams Bldg., Los Angeles.
Bids will be called for shortly.

Preparing Plans.

CHURCH Cost, \$70,000
LOS ANGELES, Cal. Third and Jef-
ferson Aves.

One-story and basement frame and
stucco church (86x124 feet).

Owner—St. Paul's Presbyterian
Church (Dr. A. Breiglieb, Pastor).

Architect—Scott Quintin, Medical
Bldg., Alhambra.

Low Bidder.

CHURCH Cost, \$20,000
EUREKA, Humboldt Co., Cal.
One-story redwood church (Colonial
type).

Owner—First Methodist Church.
Architect—Rollin S. Tuttle, Box C,
Los Gatos.

Low Bidder—Carl Nelson, 1421 E.
Channel St., Stockton.

Prop. No. 1, \$26,420; Prop. No. 2,
\$25,100.

Contract Awarded.

CHAPEL Cost, \$4,000
RICHMOND, Contra Costa Co., Cal.
Clinton Ave. and 31st St.
One-story frame and stucco chapel.

Owner—First Presbyterian Church.
Plans by P. M. Sanford.
Contractor—P. M. Sanford, 301 Alta
Punta Ave., Richmond.

Contract Awarded.

CHURCH Cost approx. \$100,000
SACRAMENTO, Sacramento Co., Cal.
SW 39th and J Sts. (106x324-ft.)

Two-story brick and concrete church.
Owner—Roman Catholic Bishop (Rev.
M. L. Lyons, pastor).

Architect—Harry Devine, California
State Life Bldg., Sacramento.

Contractor—Wm. C. Keating, Forum
Bldg., Sacramento.

FACTORIES AND WARE- HOUSES

Plans Being Figured—Bids Close Dec.
22, 11 A. M.

HOG PEN & YARDS Cost, \$—
SAN JOSE, Santa Clara Co., Calif.
County Almshouse grounds.

Hog pen and yards.
Owner—County of Santa Clara, H. A.
Pfister, county clerk.

Architect—Chas. S. McKenzie, Twohy
Bldg., San Jose.

Certified check 10% payable to the
clerk required with bid. Plans on file
in office of clerk.

SANTA ANA, Orange Co., Calif.—
Copperconda Mines Co., R. O. Gru-
well, Jr., president, 118 E 5th Street.
Santa Ana, has purchased the old
Unique Vending Company property,
located on St. Gertrudes Place, Santa
Ana, where it proposes establishing a
refinery to cost approximately \$100,-

000. A 3-story, concrete building now
on the site will be incorporated in the
new plant, which will be used for re-
fining zinc concentrates.

Contract Awarded.

LAUNDRY Cost, \$10,000
BERESFORD, San Mateo Co., Calif.

39th and El Camino Real.
One-story frame and stucco laundry.
Owner—United States Laundry, Beres-
ford.

Architect—Not Given.
Contractor—John Daley, 1104 Vancou-
ver, Burlingame.

Plans Complete.

HANGAR Cost, \$35,000
SACRAMENTO, Sacramento Co., Cal.
Freeport Blvd. at Municipal Air-
port.

Steel frame and wood hangar and air
terminal station, 80x100-ft.

Owner—City of Sacramento (to be
leased to Boeing Air Transport
Company).

Architect—Harry Devine, 1405 41st
St., Sacramento.

Plans will be forwarded to the east-
ern office of the owners for approval
and bids will be called for after that
time.

Structure will be of steel frame and
wood construction covering an area
of 80 by 100 ft., with an exterior cov-
ering of corrugated iron.

Preliminary Estimates Being Taken.

HANGAR, ETC. Cost, \$100,000
ALAMEDA, Alameda Co., Cal. Web-
ster Street.

All-steel hangar and administration
building (120x440-ft.)

Owner—Alameda Bay Airdrome (R. U.
St. John, field manager).

Architect—Not Given.

The structure will be 120 by 440 ft.
and will house shops and offices, in
addition to providing plane storage
space for 70 small planes or 15 tri-
motored transports.

Sub-Contracts Awarded.

WAREHOUSE Cost, \$30,000
SAN FRANCISCO, NW Carroll and
Newhall Streets.

One-story steel frame and concrete
warehouse (south side crane and
runway).

Owner—Truscon Steel Co., Cal Bldg.

Architect—Eng. Dept. of Owner.

Contractor—MacDonald and Kahn, Fi-
nancial Center Bldg.

Painting—Aristo Painting Co., 473

Bryant St.

Roofing—Alta Roofing Co., 976 Indi-
ana Street.

Glass—W. P. Fuller & Co., 301 Mis-
sion Street.

As previously reported, concrete
awarded to Western Paving Co., 74
New Montgomery St.; plumbing to
Geo. Weinholz, 1450 Howard St.

Contract Awarded.

ALTERATIONS Cost, \$12,500
SAN FRANCISCO, No. 145 Fremont
Street.

Alterations and additions to ware-
house and offices.

Owner—Crockett First National Bank.
Architect—Not Given.

Contractor—J. A. Tassi, 25 California
St., San Francisco.

Plans Being Completed.

WAREHOUSE, ETC. Cost, \$60,000
SANTA ROSA, Sonoma Co., Cal.

Service group (warehouse, garage,
shops, transformer house, meter
house, pole yard, etc.)

Owner—Pacific Gas & Electric Co., 245
Market St., San Francisco.

Architect—Eng. Dept. of Owner.

Bids will be taken in two weeks.

As previously reported, grading con-
tract awarded to Connors & Hansen,
Santa Rosa.

Sub-Bids Being Taken.

FOUNDRY Cost, \$12,500
OAKLAND, Alameda Co., Calif. 1919
Peralta St.

One-story steel foundry and machine
shop.

Owner—F. L. De Sanno, 4437 E 10th
St., Oakland.

Architect—Not Given.
Contractor—R. C. Porter & Co., 356
Adeline St., Oakland.

Sub-bids are wanted on brick work,
structural steel, electrical work, cor-
rugated iron and plumbing.

Plans Being Revised.

ADDITION Cost, \$25,000
OAKLAND, Alameda Co., Cal. 6300
College Ave.

One-story brick and steel frame addi-
tion to garage.

Owner—L. C. Firestone, 6300 College
Ave., Oakland.

Architect—A. W. Smith, American
Bldg., Oakland.

Bids will be taken after Jan. 1, 1930.

LOS ANGELES, Cal.—Starr Piano
Co. of Richmond, Indiana, has pur-
chased the controlling interest in
Benedict & Company, 2867 West Pico
Blvd., manufacturers of electric re-
frigerators. The Starr Piano Com-
pany will continue the business under
the name of Benedict & Company,
with H. L. Nolder, representative in
Los Angeles for the Starr Company,
acting as secretary and treasurer. It
is understood negotiations are under
way for securing a site on the south
side of the city on which to erect a
new manufacturing plant, the site,
buildings and equipment to cost ap-
proximately \$250,000.

Contract Awarded.

TRUCK SHED Cost, \$4488
GARBERVILLE, Humboldt Co., Cal.
Maintenance station truck shed.

Owner—State of California.

Plans by State Department of Public
Works, Division of Highways,
State Office Bldg., Sacramento.

Contractor—McCarthy & Johannis, 741
14th St., San Francisco.

Contract Awarded.

ADDITION Cost, \$1995
DELANO, Kern Co., Cal.
Moving highway superintendent's cot-
tage and constructing addition.

Owner—State of California.

Plans by State Department of Public
Works, Division of Highways,
State Office Bldg., Sacramento.

Contractor—R. Hodgson & Son, Port-
erville.

GARAGES AND SERVICE STATIONS

Plans To Be Prepared.

POST OFFICE GARAGE \$300,000
SAN FRANCISCO. Folsom St., bet.
Main and Beale Sts.

Two-story concrete or brick post
office garage.

Owner and Builder—MacDonald &
Kahn, Financial Center Bldg., San
Francisco.

Architect—Ellis & Fairweather, Bal-
boa Bldg., San Francisco.

The post office will pay \$43,000 a
year rental for 10 years, according to
Postmaster Todd, with the option of
buying the garage outright in the
meantime. Under the department's
new policy of purchasing post office
lands and buildings, this likely will be
done.

SALINAS, Monterey Co., Cal.—F. C.
Carlson, Salinas, at \$505.50 awarded
contract by Salinas city clerk for

erecting a garage and laying side-
walks at the city sewer plant.

The only other bid was submitted
by Chas. Holm, Salinas, at \$557.

Bids Rejected—Segregated Bids Being Taken.

SALENSROOM, ETC. Cost, \$20,000.
SAN FRANCISCO. Fillmore St. near Lombard

One-story brick salesroom and service station.

Owner—Ray Hasselback (Ford dealer)
 Architect—Jas. S. Arnott, 417 Market St., San Francisco.

Engineer—W. Adrian, 417 Market St., San Francisco.

Owner is taking segregated bids on the following portions of the work. Carpentry work will be done by day's labor by owner.

Brick work, structural steel, steel sash, mill work, roof tile, electric wiring, plumbing, reinforcing steel, ornamental iron, tile work, painting, glazing, plastering and sheet metal. Bids will be received by the architect.

Plans Being Prepared.
SERVICE STATION Cost, \$—
SAN FRANCISCO. 8th Ave. and Fulton Street.

Service Station.
 Owner—Weiss Bros. & Co., 582 Market Street.

Lessee—Shell Oil Co., Shell Oil Bldg. Plans by Eng. Dept. of Lessee.

As previously reported, wrecking awarded to Symon Bros. Wrecking Co. 1435 Market St.

Present building on site is now being wrecked.

GOVERNMENT WORK AND SUPPLIES

PORTLAND, Ore.—Until December 22, under Circular No. 201, bids will be received by U. S. Engineer Office, Portland, Ore., for 28 steel plate pump liners. Specifications obtainable from above.

SAN FRANCISCO.—Until December 9, 10 A. M., under Schedule No. 928-31-145, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver miscellaneous paints, etc. Specifications obtainable from above.

SAN DIEGO, Calif.—Captain F. C. Hingsburg, chief engineer, airways division of the United States Department of Commerce, has advised the San Diego Chamber of Commerce that bids will be called for this week for the installation of revolving beacons between San Diego and Los Angeles, placement of boundary lights on the Eddie Martin airport at Santa Ana, and erection of radio directional beacons at Lindbergh field in San Diego and at the northern terminal in Los Angeles. The beacons will be installed every ten miles between the two cities.

MARE ISLAND, Cal.—B. Z. Walden 828 Jones St., at \$1,044.95 submitted lowest bid to Public Works Officer, Mare Island Navy Yard, for painting two buildings and coating the roofing of 14 buildings at the Mare Island Navy Yard Hospital. Surfaces to be painted and coated involve approximately 15,000 and 84,000 sq. ft., respectively. The Government will furnish material for roof coating.

Complete list of bids follows:
 B. Z. Walden, 828 Jones St., San Francisco.....\$1,044

Aristo Painting Co., S. F.....1,071

Piedmont Pacific Decorating Co., Oakland.....1,287

J. Chabot, San Francisco.....1,580

D. E. Burgess, San Francisco.....1,565

E. Anderson, San Francisco.....1,690

Roy Grantz, San Francisco.....2,785

Shulman-Conroy Painting Co., San Francisco.....3,100

Bids referred to Washington for awarding.

WASHINGTON, D. C.—(By Special Wire).—Western Coast Co., Seaboard Bldg., Seattle, at \$19,983 submitted low bid Dec. 3, under Specification No. 6297, to Bureau of Yards and Docks, Navy Department, Washington, D. C. for boiler plant building at the naval air station, Seattle, Wash. The building will have concrete foundations and floors, brick walls, steel framing, steel sash, built-up roofing, and electrical and plumbing systems. Bailey Coast Co., Seattle, next low at \$20,831; West Coast Const. Co., Seattle, third low at \$22,973.

SAN DIEGO, Calif.—Until Dec. 17, under Spec. No. 6276, bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., for metal aircraft structures shop at the naval operating base (air station), San Diego, Calif. The work includes concrete, brick and hollow tile work, structural steel work, metal doors, metal and wire mesh partitions, steel windows, dumbbells, roof and sheet metal work, wood block flooring, marble flooring, plastering, gas and air piping and heating, plumbing and electrical work. Deposit of \$25 required for plans, obtainable from above.

NEW MEXICO.—Pacific Elevator & Equipment Co., 45 Rausch St., San Francisco, at \$18,429 submitted low bid to National Park Service, San Francisco, to install elevator in Carlsbad Cavern in New Mexico.

Chas. H. Dunning, Phoenix, Ariz., at \$60,235 submitted low bid to sink shaft for the elevator.

Bids referred to Washington for approval.

MONTEREY, Monterey Co., Cal.—Clinton-Stephenson Const. Co., Monadnock Bldg., San Francisco, at \$11,684 awarded contract by Quartermaster, Presidio of Monterey, for the construction of two stables and the electrical work for four stables at the Presidio of Monterey.

Sub-bids are wanted on plumbing, sheet metal, concrete work, excavating and roofing.

SAN PEDRO, Cal.—Until December 8, under Circular No. 12, bids will be received by Quartermaster, Fort McArthur, San Pedro, for complete alterations of post building 48 into two sets of junior officers' quarters. Plans obtainable from above.

HAWTHORNE, Nev.—Until 11 A. M., December 26, bids will be received by the Bureau of Yards and Docks, Washington, D. C., for a mine filling plant to be erected at the naval ammunition depot at Hawthorne, Nevada. The work will include two bulk TNT storage buildings, two box opening buildings, two filling houses, two buildings designated as cooling shed and temporary storage buildings, crating and painting building, three drilling buildings, twenty-nine dugouts with barricades, empty mine storage building, concrete and earth barricades about buildings, standard gauge railroad tracks, roadways, roads, walks, etc. Cost, \$285,000. Plans may be obtained from the District Public Works officer, 100 Harrison St., San Francisco, on deposit of \$40 (Specification No. 6125).

SAN FRANCISCO.—Until December 12, 10 A. M., under Schedule No. 928-31-129, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver pressure type water softener. The normal operating capacity per regeneration shall be 75,000 gallons based on water with 3.0 grains hardness per U. S. gallon. Softener shall have a normal softening rate

of 100 gallons per minute. Softener shall have a maximum rate of flow of 110 gallons per minute. The maximum rate of flow shall not exceed 5 gallons per minute per square foot of zeolite area.

DENVER, Colo.—Until 2 P. M., Dec. 18, bids will be received by the U. S. Bureau of Reclamation, 1411 Welton St., Denver, for furnishing equipment under Spec. No. 497-1, as follows:

One motor-driven gate hoist, with motor, speed reducer and all other parts and accessories, as listed on drawing No. 17-D-837 and one set of additional parts as listed on drawing No. 17-D-843.

Two plane gate assemblies; with all leaves, stems, racks and all other parts and accessories as listed on drawing No. 17-D-839; and one plane gate assembly with all leaves, stems, racks and all other parts and accessories as listed on drawing No. 17-D-841.

S. O. Harper, chief acting engineer. A proposal guaranty of 10% is required with each bid.

PHOENIX, Ariz.—Until Dec. 12, 2 P. M., bids will be received by John E. Brown, superintendent, U. S. Indian School, Phoenix, to furnish and deliver six manual training tables. Further information obtainable from above.

HAWTHORNE, Nevada.—Until 11 A. M., December 26, bids will be received by the Bureau of Yards and Docks, Navy Department, Washington, D. C., for buildings and dugouts, including concrete, iron and steel work, railroad tracks, conveyor and cableway systems, cranes and hoists, boiler plant equipment, heating, plumbing, ventilating, electric light and power, telephone and alarm systems for a mine filling plant at the Naval Ammunition Depot, Hawthorne, Nevada. Specifications No. 6125. Deposit of \$40 for plans.

MARE ISLAND, Cal.—Navy Department has provided \$50,000 for preliminary work in connection with the construction of a 7000 ft. seawall at the Mare Island Navy Yard. The wall will be built south from Independence Dock toward the Magazine Wharf. A portion of the \$50,000 will be used in dredging and trestle work.

COCO SOLO, C. Z.—Bids will be asked shortly by the Bureau of Yards and Docks, Navy Department, Washington, D. C., under Specification No. 6356, to install electric freight elevator at Coco Solo, Canal Zone. Specifications are now obtainable from the above office on deposit of \$10, returnable.

Commissioned To Prepare Plans.
HOSPITAL Cost, \$—
SEATTLE, Washington.
 New Marine Hospital
 Owner—U. S. Government.
 Architect—Debb & Gould, Hoge Bldg., Seattle, and John Graham, Dexter-Horton Bldg., Seattle.

Completing Plans.
FEDERAL BLDG Cost, \$160,000
LOMONA, Los Angeles County, Calif.
 Thomas St. bet 4th and 5th.
 Two-story fireproof federal building with terra cotta facing

Owner—U. S. Government
 Architect—Supervising Architect, Treasury Dept., Washington, D. C.

SACRAMENTO, Cal.—Until December 11, 3 P. M., under Order No. 2688-1733, bids will be received by U. S. Engineer Office, California Fruit Bldg. to furnish and deliver miscellaneous castings, etc. Specifications obtainable from above.

WASHINGTON, D. C.—Bids are being received by Bureau of Supplies & Accounts, Navy Department at Washington, D. C., to furnish and deliver miscellaneous supplies and equipment as noted in the following schedules, further information being available from the Navy Department Officer, 100 Harrison St., San Francisco.

Bids Open Dec. 16

Mare Island, 200 dishwashing baskets and 100 c/s; sch. 4604.

Mare Island and Puget Sound, gun firing transformers; sch. 4174.

Mare Island, 1 motor driven sliding head drill press and 4 sets of spare carbon brushes; sch. 4632.

Mare Island, 2 motor driven bench drills and 4 sets of spare carbon brushes; sch. 4635.

Mare Island, 2 air compressors, turbo; sch. 4634.

Mare Island, 1 motor driven drum armature winding machine and 4 sets of carbon brushes; sch. 4631.

Western yards, searchlight carbons, motion picture plate, and carbon brushes; sch. 4626.

Western yards, approx. 93,000 lbs. aluminum alloy; sch. 4623.

Western yards, approx. 37,000 lbs. sheet lead; sch. 4621.

Western yards, rivet steel; sch. 4620.

Western yards, copper-nickel alloy; sch. 4619.

San Francisco, 45 fuel tanks; San Diego, 33 do; sch. 4617.

Western yards, steel boiler tubes; sch. 4611.

Mare Island, Puget Sound, line panels, selective switches, telephone jacks and spare parts; sch. 4476.

Mare Island and Puget Sound, transmitters and indicators, electro-chronometric type; sch. 4675.

Mare Island, parts for motor boat gasoline engines; sch. 4612.

Western yards, taps, dies, tap wrenches and die-stocks; sch. 4627.

Puget Sound, 12,000 ft. plow steel wire rope and 12,000 ft. do; sch. 4633.

Mare Island and Puget Sound, windlasses, electro-hydraulic, complete; sch. 4624.

Mare Island, electrical measuring and indicating instruments; sch. 4640.

Puget Sound, 29,600 lbs. reinforcing steel; sch. 4653.

Mare Island, 1 motor driven vertical keyseater and 4 sets of spare carbon brushes; sch. 4651.

Mare Island, 1 automatic temperature control unit; sch. 4649.

Mare Island, 7 trolley hoists; sch. 4648.

Western yards, approx. 2100 hospital mattresses; sch. 4638.

Mare Island, 1 motor-driven metal cutting saw and 4 sets of carbon brushes; sch. 4652.

Western yards, sheet steel; sch. 4658.

Mare Island, 1 motor-driven office duplicating machine and 600 aluminum metal sheets; sch. 4650.

Mare Island, 1 motor-driven core sand mixer; sch. 4644.

Mare Island, pumps, motors, pump sets and spare parts; sch. 4639.

MARE ISLAND, Cal.—Three low bidders to furnish and install a 40-ton electric gantry crane and runway at Mare Island Navy Yard previously reported. Following is a complete list of the bids received:

Item 1, work complete; 2, deduct for runway.

Judson Pacific Co., 609 Mission St., San Francisco, item 1, \$73,655; 2, \$32,050.

Cleveland Crane & Engineering Co., Wyckliff, Ohio, item 1, \$80,052; 2, \$29,590.

Whiting Corp., Harvey, Ill., item 1, \$82,895; 2, \$26,895.

Shepard-Niles Crane & Hoist Corp., Philadelphia, item 1, \$84,825; 2, \$28,800.

R. W. Kaltenbach Corp., Bedford,

Ohio, item 1, \$97,758; 2, \$32,265.

Dravo Contracting Co., Pittsburgh, item 1, \$111,400; 2, \$34,700.

Wellman Engineering Co., 700 Central Ave., Cleveland, Ohio, item 1, \$131,010; 2, \$47,800.

Bedford Foundry & Machine Co., Bedford, Ind., informal.

Bids for this installation under Specification No. 6310, were opened by the Bureau of Yards and Docks, Navy Department, Nov. 26.

SACRAMENTO, Cal.—U. S. Engineer Office, California Fruit Bldg., will sell on December 23, 3 P. M., under Order No. 2684-C.F., certain condemned government property now at the United States Engineer Storehouse grounds and wharf at Rio Vista, Solano county, consisting of pipe, Manila rope, scrap iron, plumbing and electrical supplies and equipment, tank wagon, miscellaneous supplies and equipment. Complete specifications obtainable from above.

Plans Being Figured—Bids Close Jan. 12, 3 P. M.

POSTOFFICE Cost, \$—

SANTA ANA, Orange Co., Cal. Postoffice.

Owner—U. S. Government.

Plans by Supervising Architect, Treasury Dept., Washington, D. C.

See calls for bids under official proposal section in this issue.

Completing Plans.

FEDERAL BLDG. Cost, \$1,250,000

LONG BEACH, Los Angeles Co., Cal.

NE American Ave. and E 3th St.

Two-story and basement class A steel frame and granite Federal building (135x199-ft.)

Owner—U. S. Government.

Architect—Supervising Architect, Treasury Dept., Washington, D. C.

Bids for clearing the site are to be in December 11.

HALLS AND SOCIETY BUILDINGS

Plans Being Figured—Bids Close Dec. 17, 12 Noon.

CLUBHOUSE Cost, \$—

SALADA BEACH, San Mateo County, Cal. Sharp's Beach.

One-story frame and stucco clubhouse (100x40-ft.)

Owner—City and County of San Francisco (Park Commission).

Architect—Willis Polk Co., 277 Pine St., San Francisco.

Bids are wanted by the Board of Park Commissioners, Park Lodge,

Golden Gate Park, on (a) a general contract, and (b) to furnish and install kitchen equipment.

Certified check 10% payable to Park Commissioners required with bid. Plans obtainable from B. P. Lamb, secretary of the Commission, Park Lodge, Golden Gate Park.

Segregated Bids Being Taken.

GATE LODGE Cost, \$—

HILLSBOROUGH, San Mateo Co., Cal.

One-story brick veneer and plaster gate lodge with reinforced concrete basement.

Owner—W. Collgill.

Architect—Farr & Ward, 68 Post St., San Francisco.

Tile roof, electric heating system.

Sub-Contracts Awarded.

MEMORIAL BLDG. Cost, \$60,000

LIVERMORE, Alameda Co., Cal. SE Fifth and L Sts.

One-story reinforced concrete Veterans' Memorial Building (Spanish type).

Owner—County of Alameda.

Architect—H. H. Meyers, Kohl Bldg., San Francisco.

Contractor—N. H. Sjoberg & Son, Call Bldg., San Francisco.

Grading—J. S. Baker, Livermore.

Lumber—Independent Lbr. Co., Livermore.

Concrete—J. H. Fitzmaurice, 354 Hobart St., Oakland.

Reinforcing Steel—Gunn, Carle & Co., 444 Market St., San Francisco.

Miscellaneous and Ornamental Iron—Frauender Ornamental Iron Wks., 335 8th St., Oakland.

Mill Work—Sunset Lumber Co., 400 High St., Oakland.

Roofing—Thomas Hand Made Tile Roof Co., Decota.

Tile—Malott & Petersen, 3221 20th St., San Francisco.

Sheet Metal—East Bay Sheet Metal Works, 1101 Market St., Oakland.

Glass and Glazing—Cobbledick-Kibbe Glass Co., 666 Howard St., S. F.

Plumbing and Heating—Carl T. Doell, 467 21st St., Oakland.

Electric Work—Electric Service Co., Livermore.

Finish Floors—Regal Floor Co., 620 4th St., San Francisco.

Linoleum—Anderson's Carpet House, 519 13th St., Oakland.

Acoustical Correction—Wayland Co., Ltd., 563 2nd St., San Francisco.

ALTURAS, Modoc Co., Cal.—Clifford Harter Post, American Legion,

has appointed a committee to secure preliminary plans and estimates of cost for a Veterans' Memorial Building. Financial aid will probably be asked of the county supervisors.

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Date of Opening Bids Postponed Until Dec. 6, 2 P. M.
CLUB HOUSE Cost, \$15,000
STOCKTON, San Joaquin Co., Calif.
 Park St. bet. Madison and Commerce.
 One-story brick club house with tile roof (69x91-ft.).
 Owner—Knights of Pythias, Charter Oak Lodge No. 20.
 Architect—Victor Galbraith, Elks Bldg., Stockton.
 Steam heating plant, concrete and maple floors, steel sash.

Preparing Working Drawings.
MEMORIAL BLDG. Cost, \$65,000
HAYWARD, Alameda Co., Cal. (Kolze property) Main St.
 One-story reinforced concrete Veterans' Memorial Building (Spanish type).
 Owner—County of Alameda.
 Architect—H. H. Meyers, Kohl Bldg., San Francisco.
 Bids will be taken in about 30 days.

Completing Preliminary Plans.
COMMUNITY CENTER Cost, \$650,000
SAN FRANCISCO, California Street and Presidio Avenue.
 Two-story and basement reinforced concrete community center.
 Owner—Jewish Community Center, Sidney M. Ehrman, chairman, 63 Post Street.
 Architects—Hyman and Appleton, 68 Post St., and Arthur Brown, Jr., 251 Kearny St.
 Building will contain gymnasium, swimming pool, handball courts, auditorium, theatre, club rooms, lecture hall, game rooms, lounge rooms and kitchen. It is expected to call for bids about Jan. 1st.

HOSPITALS

Plans Being Completed.
HOSPITAL Cost, \$50,000
YUBA CITY, Sutter Co., Calif. NE Plumas and Alturas Sts.
 One-story brick and stucco hospital (24 to 30 bed capacity).
 Owner—A. A. King, Sacramento.
 Architect—Homer B. A. Pratt, 4648 T St., Sacramento.
 Segregated bids will be taken in one week.

Date of Opening Bids Postponed Until Dec. 15, 11 A. M.
SERVICE BLDG. Cost, \$100,000
SAN JOSE, Santa Clara Co., Cal.
 Two-story reinforced concrete service building.
 Owner—County of Santa Clara.
 Architect—Binder & Curtis, 35 W San Carlos St., San Jose.
 Certified check 10 per cent payable to Henry A. Pfister, county clerk, required with bid. Plans on file in office of clerk.
 Following is a partial list of the contractors who will submit bids:
 R. O. Summers, 17 N 1st St., San Jose.
 Thermotte Const. Co., 580 Stockton Ave., San Jose.
 W. J. Ochs, American Trust Company Bldg., San Jose.
 D. J. Byron, 1305 Hanchet, San Jose.
 J. D. Carlsen, 1331 Sierra, San Jose.
 Carl N. Swensen, 355 Stockton Ave., San Jose.
 Frank Edmans, 143 N 8th St., San Jose.
 E. Nommensen, 28 N First St., San Jose.
 B. J. Smith, 1376 Mariposa, San Jose.

LOS ANGELES, Cal.—Metal Door & Trim Co., 2223 E. 37th St., submitted the only bid to Los Angeles county supervisors December 1 for all lockers, wire enclosures, tables and library stocks for the Acute Unit of the Los Angeles General Hospital. The bid follows: (2a) Unit No. 2, \$8704;

(2b) Unit No. 3, \$61,125; (2c) Unit No. 4, \$23,049; (2d) Unit No. 5, \$15,366. Total of items (2a), (2b), (2c) and (2d) \$111,244. Sub-contractors: Tables, Kewanee Manufacturing Co.; wire mesh, City Wire & Iron Works; galvanizing, Los Angeles United Galvanizing Co., library stacks, General Fireproofing Co. Alternate, using tables in wood manufactured by La Porte Sash & Door Co., (5a) \$5704, (5b) \$53,125, (5c) \$21,549, (5d) \$15,360, (5e) total, \$98,738.

SEATTLE, Wash.—See "Government Work and Supplies," this issue. Seattle architects commissioned by Treasury Department to prepare plans for new Marine Hospital to be erected at Seattle.

Sub-Contracts Awarded.
WARD, ETC. Cost, \$207,961
AGNEWS, Santa Clara Co., Cal.
 Two-story reinforced concrete ward, kitchen and steam plant building (tile partitions, wood roof construction and tile roof; approx. 70,000 sq. ft. floor area).
 Owner—State of California.
 Architect—Division of Architecture, State Dept. of Public Works, Geo. E. McDougall, State Architect, Public Works Bldg., Sacramento.
 Contractor—J. F. Shepherd, First National Bank Bldg., Stockton.
Mill Work—Pacific Mfg. Co., 354 Highland St., Oakland.
Ornamental Iron and Steel Sash— Michel & Pfeffer Iron Works, Harrison and Tenth Sts., S. F.
Reinforcing Steel—Concrete Engineering Co., 1280 Indiana St., S. F.
Roofing—N. O. Anderson.
Sheet Metal—Forderer Cornice Works, 269 Potrero Ave., San Francisco.
Painting—Jos. Burdon & Son, 1426 McDonald Ave., Richmond.
Lumber—Sunset Lumber Co., 400 High St., Oakland.
Glass—W. P. Fuller Co., 301 Mission St., San Francisco.

As previously reported, plumbing, heating and ventilating awarded to Hateley & Hateley, 1710 10th St., Sacramento, at \$41,880; electrical work to Roy M. Butcher, 1020 Sherwood St., San Jose, at \$7629.

SAN FRANCISCO—Malott & Peterson, 3221 20th St., at \$2,971 submitted lowest bid to Board of Public Works for tile work in the Infirmary Kitchen at the Laguna Honda Home. Estimated cost \$2,000.
 Complete list of bids follows:
 Malott & Peterson \$2,971
 Media Art Tile Co. 3,143
 Art Tile & Mantel Co. 3,219
 Thomas F. O'Connor 5,048
 Bids held under advisement.

LOS ANGELES, Cal.—E. V. Fallgren Company, Ltd., 119 S. Alvarado St., Los Angeles, at \$325,000 submitted lowest bid to Los Angeles County Supervisors for plastering the Acute Unit at the L. A. General Hospital.

HOTELS

Preliminary Plans Being Prepared.
HOTEL Cost, \$350,000
FRESNO, Fresno Co., Cal. NE Mariposa and Broadway.
 Four-story and basement Class A hotel and stores (150 rooms, each with bath and shower; basement garage).
 Owner—S. B. Goodman, 565 Yosemite St., Fresno.
 Plans by Shields, Fisher and Lake (Raphael Lake, architect), Pacific Southwest Bldg., Fresno.

Preparing Plans.
HOTEL Cost, \$175,000
BLATINE, Riverside Co., Cal.
 Cement block hotel (coffee shop, bakery and store rooms).
 Owner—Lilthe-Monterey Syndicate.
 Architect—Milton R. Sutton, 6607 Sunset Blvd., Los Angeles.

Mill Work Contract Awarded.
REMODELING Cost approx. \$75,000
DEL MONTE, Monterey Co., Cal. Hotel Del Monte.
 Remodel interior of hotel, refinishing, redecorating, new fireplaces, add porch, etc.; 1st floor).
 Owner—Del Monte Properties Co. (S. F. B. Morse, president).
 Architect—Lewis P. Hobart, Crocker Bldg., San Francisco.
 Contractor—Dewett-Ruhl Co., Pebble Beach, Calif.
 Interior Decorator—Mrs. Francis McComas, Andalusia Road, Pebble Beach.
 Mill Work—Pacific Mfg. Co., Monadnock Bldg., San Francisco.

ICE AND COLD STORAGE PLANTS

OLIVE, Orange Co., Cal.—Olive Heights Citrus Fruit Association, Ben Cole, manager, is considering a proposal to increase the concern's capitalization from \$75,000 to \$150,000. The funds would be used for the construction of a pre-cooling plant with a capacity of sixty cars.

POWER PLANTS

OAKLAND, Cal.—East Bay Municipal Utility District seeks authority of Federal Power Commission for a preliminary survey for power units on the Mokelumne river near Mokelumne Hill and Jackson, a Nevada County. The district seeks to increase

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SEATTLE, Wash.—Ward Const. Co. Tacoma, Wash., at \$279,847 submitted low bid to Board of Public Works to construct foundations for the powerhouse at the Diablo Plant on the Skagit River. General Const. Co. second low at \$282,750, and Rumsey and Jordan, third low at \$288,240. Taken under advisement.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

SANTA MARIA, Santa Barbara Co., Cal.—Until 12 o'clock, noon, Dec. 6, bids will be received by the Santa Maria public library for altering and remodeling the library building. Plans may be obtained from Edward Craig or Harry Neal, Santa Maria city hall, upon deposit of \$10.

Plans Being Completed.
ADDITION Cost, \$250,000
SAN FRANCISCO. Golden Gate Park. Addition to present Academy Building (steel and brick construction).
Owner—California Academy of Science, premises.
Architect—Lewis P. Hobart, Chocker Bldg.

Specifications will be started in January.

Preparing Sketches.
COURT HOUSE Cost, \$—
SAN LUIS OBISPO, San Luis Obispo Co., Cal.
New Court House.
Owner—County of San Luis Obispo.

Architect—Charles L. Wilson, 1909 S Union Ave., Los Angeles.
Architect Wilson agreed to prepare preliminary plans for this structure several weeks ago. The 1930 Grand Jury in its report just submitted to the county supervisors recommends the immediate erection of such a structure, declaring the present building "inadequate in every particular." Repairs to the present county jail quarters are also recommended.

Roofing Contract Awarded.
LIBRARY Cost, \$40,000
FAIRFIELD, Solano Co., Cal.
Two-story concrete public library.
Owner—County of Solano.
Architect—W. E. Coffman, Forum Bldg., Sacramento.

Roofing—Bush Roofing Co., 1912 K St., Sacramento, \$2244.
Sheet metal bids are still held under advisement. Other awards reported Nov. 24, 1930.

SAN FRANCISCO.—Bids will be asked shortly by S. J. Hester, secretary, Board of Public Works, for painting the interior of the Civic Auditorium in the Civic Center. Specifications for the work are being completed.

LONG BEACH, Los Angeles Co., Cal.—Construction of a public utilities building to provide employment was urged at the session of the Long Beach City Council, November 28. The building will probably be built on the site of the old city hall annex and preliminary plans have been prepared by the Long Beach engineering department. First unit, \$100,000.

Preliminary Estimates Submitted.
AUDITORIUM Cost, \$200,000
BAKERSFIELD, Kern Co., Cal.
Class A auditorium.
Owner—City of Bakersfield.
Architect—Chas. H. Biggar, Habersfelde Bldg., Bakersfield.

Bids Opened.
LINCOLN
BERKELEY, Alameda Co., Cal. SW
Kirtland and Shattuck Ave.
Cover floors with felt linoleum in main library.
Owner—City of Berkeley, Florence E. Turner, city clerk.
Architect—James W. Plachek, Mercantile Bank Bldg., Berkeley.
Following is a complete list of bids:
Anderson's Carpet House, 519
13th St., Oakland, \$4,198.26
Hallstead Webb, Berkeley, 4,224.06
Van Fleet Frear Co., S. F., 4,452.00
J. E. Higgins Lumber Co., 4,802.00
(Gold Seal) 4,648.00
Bids held under advisement.

SAN MATEO, San Mateo Co., Cal.—Following bids received by city clerk for (a) painting exterior of city hall; (b) painting woodwork on the Corporation Yard Building, and (c) painting iron fence at City Park:
D. Walden (a) \$95; (b) \$195; (c) \$255.
A. M. Moklosky & Son, San Mateo (a) \$115; (b) \$134; (c) \$71.25.
D. E. Burgess, San Francisco, (a) \$129; (b) \$210; (c) \$279.
R. M. Michel (a) \$165; (b) \$185; (c) \$149.
J. F. Killelea Co. (c) \$345.
A. G. Gilding (c) \$245.
Roy Lind (c) \$269.

SAN FRANCISCO.—Bids will be asked shortly by S. J. Hester, secretary, Board of Public Works, for installation of a fan in the ventilating system in the Veterans' Club quarters at the Civic Auditorium. Specifications for the work are being completed.

RESIDENCES

Plans Being Prepared.
ESTATE Cost, \$50,000
LOS GATOS, Santa Clara Co., Cal.
Estate.
Owner—Name Withheld.
Architect—Farr & Ward, 68 Post St., San Francisco.

Work comprises two-story and basement frame and stucco residence (12 rooms, 3 baths), gate lodge to cost \$23,000, swimming pool, dressing rooms, tennis courts, and separate garage building. Bids will be taken from a selected list of contractors in about two weeks for the first unit. Electric and warm air heating system.

Contract Awarded.
RESIDENCE Cost, \$—
SACRAMENTO, Sacramento Co., Cal.
Lot 23, Wright & Kimbrough Tract, No. 32.
One-story and basement brick veneer residence.
Owner—Bowen & McMahon, 825 J St., Sacramento.

Plans by Owner.
Contractor—Guth & Fox, 1516 27th St., Sacramento.

Construction Postponed Until Jan., 1931.
RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Cal. Montrose Road.
Two-story and basement brick veneer frame and stucco residence (eight rooms and three baths).
Owner—Neville Lee, 1060 Cragmont Ave., Berkeley.
Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.

Plans Being Figured.
RESIDENCE Cost, \$6500
SAN JOSE, Santa Clara Co., Calif.
Center Road.
One and one-half-story frame and stucco residence (5 rooms).
Owner—Mr. Swickard.
Architect—Wolfe and Higgins, Realty Bldg., San Jose.

Plans Being Prepared.
RESIDENCE Cost, \$10,000
SAN FRANCISCO. NW Pinehurst and Kenwood Sts.
Two-story and basement frame and stucco residence (8 room, 2 baths).
Owner and Builder—G. W. Morris, 730 Athens St., San Francisco.
Architect—Not Given.
Sub-bids will be taken in one week.

Plans Being Prepared.
RESIDENCE Cost, \$8500
SAN FRANCISCO. N Pinehurst near Kenwood St.
One-story and basement frame and stucco residence (6 rooms).
Owner and Builder—G. W. Morris, 730 Athens St., San Francisco.
Architect—Not Given.

Plans Being Figured.
RESIDENCE Cost, \$16,000
SAN JOSE, Santa Clara Co., Cal.
Two-story and basement frame and stucco residence (8 rooms, 3 baths).
Owner—Dr. E. E. Porter, Security Bk. Bldg., San Jose.
Architect—Wolfe & Higgins, Realty Bldg., San Jose.

Owner Taking Sub-Bids.
RESIDENCE Cost, \$6000
SAN FRANCISCO. N. Munich West Cordova St.
One-story and basement frame and stucco residence.
Owner—H. W. Peterson, 912 Geneva.
Architect—Not given.

Planned.
RESIDENCES Cost, \$5000 each
SAN FRANCISCO. W Thirty-first Ave. N Lawton St.
Ten one-story and basement frame and stucco residences.
Owner and Builder—Henry Doelger, 1391 Eighth Ave., San Francisco.
Plans by Owner.

Contract Awarded.
RESIDENCE Cost, \$40,000
PIEDMONT, Alameda Co., Cal. No. 335 Bellevue Ave.
Two-story and basement frame and stucco residence (17 rooms and garage).
Owner—Ernest S. Houdlette, 4 Pala Ave., Piedmont.
Architect—Clarence Tantau, 210 Post St., San Francisco.
Contractor—F. S. Marshall, 495 Ashbury St., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$25,000
HILLSBOROUGH, San Mateo Co., Calif.
Two-story and basement frame and stucco residence (ten rooms, seven baths).
Owner—D. E. McLaughlin, 290 Richmond Road, San Mateo.
Architect—John White, 163 Sutter St., San Francisco.
Contractor—Oscar L. Cavanaugh, 432 Occidental Ave., San Mateo.

Contract Awarded.
RESIDENCE Cost, \$—
SACRAMENTO, Sacramento Co., Cal.
Lot 10, Gerber Court.
One-story and basement frame and stucco residence (5 rooms).
Owner—Bowen & McMahon, 825 J St., Sacramento.
Plans by Owner.
Contractor—Guth & Fox, 1516 27th St., Sacramento.

Construction Indefinitely Postponed.
RESIDENCE Cost, \$16,000
OAKLAND, Alameda Co., Cal. Lake-shore Highlands.
Two-story frame and stucco residence
Owner—Withheld.
Plans by Irvin Johnson, 2215 Seventh Ave., Oakland.

Owner Taking Bids.

RESIDENCE Cost, \$6500
SAN JOSE, Santa Clara Co., Calif.
 Senter Road.
 One and one-half-story frame and
 stucco residence (5 rooms).
 Owner—J. H. Swickard, Senter Road,
 San Jose.
 Architect—Wolfe and Higgins, Realty
 Bldg., San Jose.

Bids Opened.

COTTAGE Cost, \$—
IONE, Amador Co., Calif. Preston
 School of Industry.
 Two-story and part basement brick
 and frame superintendent's cot-
 tage (10 rooms).
 Owner—State of California.
 Architect—State Department of Pub-
 lic Works, Division of Architect-
 ure, Public Works Bldg., Sacra-
 mento.

Following is a complete list of bids:

General Work

Blitrite Const. Co., 370 Ocean
 View Ave., Berkeley.....\$13,875
 The Minton Co., Mt. View.....17,718
 Guth & Fox, Sacramento.....19,883
 S. C. Giles.....21,015
 A. F. Anderson, Oakland.....21,478
 O. S. Almile, San Francisco.....22,490
 Lindgren & Swinerton, Inc.,
 San Francisco.....22,499
 George Swanstrom, Oakland.....22,579
 J. W. Cobby & Son, S. F.....23,483
 Yoho & Dager, Sacramento.....24,222
 H. H. Henning, Stockton.....25,500
 Gaubert Bros., Oakland.....26,750

Electrical Work

Luppin & Hawley, 3126 J Street,
 Sacramento.....\$1,250
 Collins Elec. Co., Sacramento.....1,321
 Eddy Elec. Co., Stockton.....1,678
Plumbing and Heating
 Scott Co., 243 Minna St., S. F.....\$5,327
 Carpenter and Mendenhall, Sacra-
 mento.....5,365
 Carl T. Doell, Oakland.....5,630
 Luppin & Hawley, Sacramento.....5,658
 George Schuster, Oakland.....5,756
 W. H. Picard, Oakland.....5,881
 Bids held under advisement.

Plans Being Prepared.

RESIDENCE Cost, \$25,000
HILLSBOROUGH, San Mateo Co., Cal.
 Two-story and basement frame and
 stucco residence (9 rooms and 5
 baths).
 Owner—Name Withheld.
 Architect—Farr & Ward, 68 Post St.,
 San Francisco.
 Shakes roof, electric heating sys-
 tem. Bids will be taken from a se-
 lected list of contractors in about 30
 days.

Segregated Figures Being Taken By Owner.

RESIDENCE Cost approx. \$15,000
REDWOOD CITY, San Mateo Co., Cal.
 Edgewood Park.
 Two-story and basement frame and
 stucco residence (9 rooms and 3
 baths).
 Owner—H. E. Bourquin, 2710 Broad-
 way, Redwood City.
 Plans by J. P. Reineoh, 218 Cowper
 St., Palo Alto.

Plans Being Prepared.

RESIDENCES Cost each, \$5500
SAN FRANCISCO, W. Pinehurst St.
 N Kenwood Ave.
 Two 1-story and basement frame and
 stucco residences (6 rooms each).
 Owner and Builder—G. W. Morris, 730
 Athens St.
 Architect—Not Given.
 Sub-bids will be taken Dec. 6th.

SCHOOLS

BERKELEY, Alameda Co., Calif.—
 Until December 15, 8 P. M., bids will
 be received by Clara F. Andrews, sec-
 retary, Board of Education, 1325 Mil-
 via St., to furnish and install heat-
 ing equipment in Franklin School in
 San Pablo Ave. between Virginia and
 Francisco Sts. Specifications obtain-
 able from above.

Bids Opened.

SCHOOL Cost, \$650,000
SAN FRANCISCO, Noe and 25th Sts.
 Class A Junior high school building
 (3-story and basement concrete,
 Travertine exterior, tar and gravel
 roof; to accommodate approx. 800
 students).

Owner—City and County of San Fran-
 cisco.

Architect—Crim, Resing and McGuin-
 ness, 488 Pine St.
 Anderson & Ringrose, 320 Market St.,
 \$484,000.

MacDonald & Kahn.....\$484,284
 Monson Brothers.....481,860
 H. L. Petersen.....485,000
 Jas. L. McLaughlin Co.....496,182
 P. P. Reilly.....498,800
 Larsen & Larsen.....508,000
 Mission Concrete Co.....521,993

Structural Steel

Minneapolis Moline Power Imple-
 ment Co., Prop. 1, \$9,929; Prop. 2, \$7-
 174.
 Dyer Bros., Prop. 1, \$10,550.
 Schrader Iron Works, Prop. 1, \$11,
 500.

Joe Gerrick & Co., Prop. 3, \$2,568.

Plumbing and Gas Fitting

The Turner Co., 323 Tehama St., \$28,600
 C. Petersen Co.....31,698
 Scott Company.....31,787
 H. Larsen Co.....34,000

Mechanical Equipment

Herman Lawson, 465 Tehama St.
 (bid irregular).....\$37,000
 Scott Co., 213 Minna St.....37,594
 C. Petersen & Co.....37,936
 James A. Nelson.....39,866

Electrical Work

Alta Electric Co., 976 Indiana
 Street.....\$31,190
 Decker Electric Co.....32,168
 R. Flatland.....32,745
 Turner Co.....34,800
 Aetna Electric Co.....37,438
 Edw. F. Dowd.....40,900

Bids held under advisement.

Preliminary Plans Being Prepared.
SWIMMING POOL Cost, \$70,000
EUREKA, Humboldt Co., Cal.
 Swimming pool and structures.
 Owner—Eureka City School District.
 Architect—Newton Ackerman, 102 W
 4th St., Eureka.

In addition to the swimming pool,
 the Board of Education is considering
 the erection of a new industrial build-
 ing and a school bus garage at the
 high school plant.

December 4, 1930

Bids Opened.
ELECTRICAL WORK Cost, \$2000
SAN FRANCISCO, Onondago, Otsego,
 and Cayuga Sts.

Electrical work for 3rd unit of (South-
 side) Balboa High School.
 Owner—City and County of San Fran-
 cisco.

Architect—Takewell and Welch, 251
 Kearny Street.

Following is a complete list of bids:

Standard Electric Time Co., 1
 Drumm St. (bid irregular).....\$2,000
 Alta Electric Co.....2,350
 Weidenthal-Gosliner Elec. Wks 2,610
 R. Flatland.....3,300

Bids held under advisement.

Contract Awarded—Sub-Bids Being
 Taken.

ADDITION Cont. price, \$26,890
RICHMOND, Contra Costa Co., Calif.
 41st St. bet. Roosevelt and Clin-
 ton Avenue.

Six-room addition to Woodrow Wilson
 School (brick construction, slate
 roof).

Owner—Richmond School District, W.
 T. Helms, clerk.
 Architect—J. T. Narbett, 466 31st St.
 Richmond.

Mechanical Engineers—Leland & Ha-
 ley, 58 Sutter St., San Francisco.
 Contractor—P. M. Sanford, 302 Alta
 Punta Ave., Richmond.

Heating bids held under advisement

Contract Awarded.

SCHOOL Cont. price, \$14,840
JAMESTOWN, Tulumaine Co., Cal.
 One-story class C concrete grammar
 school (3 classrooms).

Owner—

Architect—Davis & Pearce Co., Grant
 and Weber Sts., Stockton.
 Contractor—Swanson & Chance, Tur-
 lock.

Contracts Awarded.

CONVENT Cost approx. \$70,000
SAN FRANCISCO, Ashbury Street
 near Waller St.

Four-story concrete convent and two-
 story addition to present school.

Owner—Roman Catholic Archbishop of
 San Francisco, 1100 Franklin St.
 Architect—H. A. Minton, 525 Market
 Street.

Contractor—David Paganini, 519 Cali-
 fornia Street.

Electrical Work—Superior Electric Co.
 Phelan Bldg.

Plumbing—Wm. J. Monihan, 1552 Ful-
 ton Street.

Heating—A. A. Polla, 401 14th Ave.

Following sub-contracts awarded by
 the contractor:

Excavation—Sibley Grading & Team-
 ing Co., 165 Landers St.

Lumber—McCormick Lumber Co., 1401
 Army Street.

Steel—E. S. Wetherhall Co., 17th and
 Wisconsin Sts.

Concrete—Golden Gate Atlas Co., 16th
 and Harrison Sts.

Mill Work—Anderson Bros. Planing
 Mill, Custer and Quint Sts.

Rev. John Butler is the pastor.

Low Bidder On Electrical Work

CONVENT Cost approx. \$70,000
SAN FRANCISCO, Ashbury St. near
 Waller St.

Four-story concrete convent and two-
 story addition to present school.

Owner—Roman Catholic Archbishop of
 San Francisco, 1100 Franklin St.
 Architect—H. A. Minton, 525 Market
 Street.

Contractor—David Paganini, 519 Cali-
 fornia St.

Electrical Work—Superior Electric Co.
 Phelan Bldg.

Rev. John Butler is the pastor.

BERKELEY, Alameda Co., Calif.—
 Until December 15, 8 P. M., bids will
 be received by Clara F. Andrews, sec-
 retary, Board of Education, 1325 Mil-
 via St., to furnish and install steel
 lockers in Burbank Jr. High School
 in south side of Addison Street bet.
 Browning and Curtis Sts. Specifica-
 tions obtainable from secretary.

Contract Awarded.

SCHOOL Cost, \$15,000
SAN FRANCISCO, E Ninth Ave. N
 Geary St.

One-story & basement class C school.
 Owner—Roman Catholic Archbishop of
 San Francisco, 1100 Franklin St.

Architect—J. J. Foley, 750 5th Ave.

Contractor—Cahill Bros., 206 Sansome.

November 29, 1930

Commissioned To Prepare Plans.

SCHOOL Cost, \$600,000
SAN FRANCISCO, Appieton St. near
 Highland Ave.

Class A Junior High School.

Owner—City and County of San Fran-
 cisco.

Architect—G. Albert Lansburgh, 140
 Montgomery St.

Will be known as Bernal Junior
 High School.

Completing Plans.

COLLEGE BLDGS Cost, \$—
WESTWOOD, Los Angeles Co., Cal.
 Beverly Blvd.

Brick college building (450x45 ft.)
 Owner—Marymount College of the
 West

Architect—Ross Montgomery, Cham-
 ber of Commerce Bldg., L. A.

SAN FRANCISCO—Sixteen sets of bids were received by Leonard S. Leavy, city purchasing agent, to furnish and deliver miscellaneous furniture for the School Department. A complete tabulation of the bids received follows:

- (1) F. E. Turner;
- (2) L. Cohn;
- (3) Empire Planing Mill;
- (4) S. Levi;
- (5) Stevenson and Son;
- (6) Haas Wood and Iron Works;
- (7) C. F. Weber Co.;
- (8) Home Manufacturing Co.;
- (9) John Schrued;
- (10) H. Schulte and Son;
- (11) Mullen Mfg. Co.;
- (12) California Mill;
- (13) The Woodcraft Co.;
- (14) R. Brandline;
- (15) Braas and Kuhn;
- (16) Pacific Manufacturing Co.

Item A—Bookkeeping Tables;

Item B—Cafeteria Tables;

Item C—Mechanical Drawing Tables

Item A	Item B	Item C
1 \$15.75	\$ 8.50	\$103.
2 \$26.90	\$14.50	\$110
3 \$18.90	\$ 6.50	\$160
4 \$19.50	\$ 7.70	\$—
5 \$39.00	\$15.00	\$130
6 \$22.50	\$ 7.95	\$125
7 \$15.40	\$ 7.70	\$ 99
8 \$18.95	\$ 6.50	\$ 79.50
9 \$21.40	\$—	\$—
10 \$18.85	\$ 7.55	\$105
11 \$25.40	\$12.00	\$113.75
12 \$18.15	\$ 6.65	\$—
13 \$—	\$ 7.45	\$—
14 \$19.00	\$ 8.25	\$ 95.
15 \$23.00	\$ 7.65	\$ 52.75
16 \$25.60	\$12.55	\$123.10

Item A—200 Primary Tables, 19-in.

Item B—250 do do 21-in.

Item C—250 do do 23-in.

Item D—250 do do 25-in.

A	B	C	D
1 \$4.50	\$4.50	\$4.50	\$4.50
2 \$7.90	\$7.92	\$7.94	\$8.00
3 \$6.25	\$5.25	\$5.25	\$5.25
4 \$—	\$—	\$—	\$—
5 \$8.00	\$8.00	\$8.20	\$8.20
6 \$8.60	\$3.65	\$3.20	\$3.70
7 \$4.40	\$4.40	\$4.40	\$4.40
8 \$2.96	\$3.00	\$3.04	\$3.08
9 \$—	\$—	\$—	\$—
10 \$2.95	\$2.95	\$3.00	\$3.00
11 \$3.70	\$3.72	\$3.74	\$3.80
12 \$3.55	\$3.38	\$3.41	\$3.44
13 \$3.15	\$3.25	\$3.40	\$3.60
14 \$2.75	\$2.75	\$2.75	\$2.85
15 \$4.40	\$4.45	\$4.50	\$4.55
16 \$4.50	\$4.50	\$4.60	\$4.10

Completing Plans.

DORMITORY Cost, \$300,000

WEST LOS ANGELES, Cal. Hilgard

Ave. and Manning St.

Three-story and basement Class A

reinforced Concrete dormitory

(160x126 feet).

Owner—University of California.

Architect—Douglas H. McLellan, Arch-

itects Bldg., Los Angeles.

LOS ANGELES, Cal.—The Board of

Regents of the University of California

at Los Angeles have included in

their appropriations for 1931 funds

for the construction of two gymnas-

ium buildings on the campus of the

university at West Los Angeles. It is

understood the total cost of both

buildings will be \$800,000. Allison &

Allison, California Reserve Bldg., Los

Angeles, and George W. Kelham, 315

Montgomery St., San Francisco, will

be the architects.

SAN JOSE, Santa Clara Co., Cal.—

Grant L. Miner, Jr., 180 University

Ave., Palo Alto, desires sub-bids in

connection with the construction of

a reinforced concrete men's gymna-

sium. It is to be erected in San

Jose for the State of California from

plans prepared by State Architect,

George B. McDougall, Public Works

Bldg., Sacramento. Bids are to be

opened on December 2, at 2 P. M.

Bids Opened.

GYMNASIUM Cost, \$—

SAN JOSE, Santa Clara Co., Calif.

State Teachers' College Grounds.

Reinforced concrete men's gymnasium

owner—State of California.

Architect—State Department of Pub-

lic Works, Division of Architec-

ture, Public Works Bldg., Sacra-

mento.

Following is a complete list of bids:

General Work

J. J. Grodem & Co., 1028 San

Antonio Ave., Alameda.....\$ 97,995

The Minton Co., Mt. View.....\$8,319

H. L. Petersen, San Francisco 101,998

L. Dioguardi, Redwood City 103,400

Sorensen & Hagmark, S. F. 103,700

Carl N. Swensen, San Jose.....103,830

E. T. Lesure, Oakland.....104,745

Gaubert Bros., Oakland.....104,800

Grant L. Miner, Palo Alto.....107,866

H. Mayson, Long Beach.....108,107

J. F. Shepherd, Stockton.....111,769

Anderson & Ringrose, S. F. 122,262

Plumbing and Heating

Wm. F. Serpa, 497 N 13th St.,

San Jose.....\$15,525

W. H. Picard, Oakland.....17,749

W. H. Robinson, Monterey Park 17,755

W. H. Smith, Long Beach.....17,760

Hately & Hately, Sacramento.....18,223

A. J. Peters, San Jose.....18,400

Scott Co., San Francisco.....18,467

George Schuster, Oakland.....18,945

Carl T. Doell, San Jose.....21,298

Electrical Work

Guibert Bros. Elec. Co., 286 W

Santa Clara, San Jose.....\$6,355

Eddy Elec. Co., Stockton.....6,462

Roy M. Butcher, San Jose.....7,065

W. H. Smith, Long Beach.....7,250

George Wolfe, Oakland.....7,300

W. H. Smith, Long Beach, submit-

ted a bid for mechanical work com-

plete at \$24,400.

Bids held under advisement.

Prospective Bidders.

MEMORIAL BLDG. Cost, \$250,000

BERKELEY, Alameda Co., Cal. Cam-

pus of University of California.

Two-story Class A concrete Esleman

Memorial Bldg. (Student publish-

ing building).

Owner—Regents of the University of

California, Berkeley.

Architect—G. W. Kelham, 315 Mont-

gomery St., San Francisco, \$4,500.

Following is a partial list of the

bidders:

General Work

E. T. Lesure, 87 Ross Circle, Oak-

land.

George Maurer, 50 York Drive, Oak-

land.

Dinwiddie Const. Co., Crocker Bldg.,

San Francisco.

Anderson & Ringrose, 320 Market

St., San Francisco.

Barrett & Hilp, 918 Harrison St.,

San Francisco.

MacDonald & Kahn, Financial Center

Bldg., San Francisco.

K. E. Parker Co., 135 South Park,

San Francisco.

R. W. Littlefield, 337 17th St., Oak-

land.

F. L. Hansen, 282 7th St., San Fran-

cisco.

Wm. C. Keating, 4209 Mountain

Bldg., Oakland.

H. L. Petersen, 731 Treat Avenue,

San Francisco.

J. J. Grodem & Co., 1028 San An-

tonio Ave., Alameda.

Electrical Equipment

NePage-McKenny Co., 128 10th St.,

Oakland.

C. W. Gates, Oakland.

Mechanical Equipment

George C. Bell, 1826 E 15th Street,

Oakland.

Thomas R. Catton, 3021 Telegraph

Ave., Berkeley.

Bids are to be opened Dec. 10, 11

A. M.

MERCED, Merced Co., Cal.—County

Surveyor W. E. Pedesen author-

ized by supervisors to proceed with

the construction of a school building

at the county hospital grounds; cost

is not to exceed \$1200.

Completing Plans.

COLLEGE BLDGS. Cost, \$500,000

LOS ANGELES, Cal. Campus of Cali-

ifornia Institute of Technology

Two reinforced concrete college build-

ings (60 and 70 rooms).

Owner—California Institute of Tech-

nology.

Architect—Mayers, Murray & Phillip,

2 West 47th St., New York City.

Plans are also being prepared for

a large auditorium to be built at the

corner of Wilson and California Sts.

to cost \$500,000.

Contracts Awarded.

SCHOOL Cont. Price, \$137,045

ANTIOCH, Contra Costa Co., Cal. 15-

acre site), D Street.

Two-story brick high school.

Owner—Antioch Live Oak High School

District.

Architect—Davis-Pearce & Co., Grant

and Weber Sts., Stockton.

Contractor—Mathews Constr. Co.,

Forum Bldg., Sacramento.

Miscellaneous and Ornamental Iron

and Structural Steel—San Jose

Iron Works, 535 W-San Carlos St.,

San Jose.

Sub-Contracts Awarded.

TOWERS Cost, \$—

PALO ALTO, Santa Clara Co., Calif.

Stanford University, Palm Drive

and El Camino Real.

Two stone towers, 30 ft. in height.

Owner—Stanford University.

Architect—John Bakewell and Arthur

Brown, Jr., associated, 251 Kearny

St., San Francisco.

Contractor—Geo. Wagner, 181 South

Park, San Francisco.

Ornamental Lamps—Artistic Metal

Works, 1841 Howard Street, San

Francisco.

Stone—McGivray - Raymond Co., 3

Potrero Ave., San Francisco.

Iron—Patterson & Koster Iron W'ks,

280 13th St., San Francisco.

Work has been started.

Contract To Be Awarded.

SCHOOL Cont. price, \$14,840

JAMESTOWN, Tualuma Co., Cal.

One-story class C concrete grammar

school (3 classrooms).

Owner—

Architect—Davis-Pearce & Co., Grant

and Weber Sts., Stockton.

Contractor—Swanson & Chance, Tur-

lock.

Plans Being Figured—Bids Close Dec.

20, 4 P. M.

SCHOOL Cost approx. \$400,000

OAKLAND, Alameda Co., Cal. 45th

Ave. and Foothill Blvd. (Fremont

High School Site).

Three-story and basement steel frame

and concrete high school with tile

roof.

Owner—City of Oakland School Dist.

Architect—Charles W. McCall, 1404

Franklin St., Oakland.

Bids are being taken for a general

contract.

BANKS, STORES & OFFICES

Preliminary Sketches Being Prepared.

OFFICES Cost approx. \$800,000

SACRAMENTO, Sacramento Co., Cal.

Eight and J Sts.

Sixteen-story and basement class A

reinforced concrete office bldg.

Owner—Henry Mitau, et al, 1422 40th

St., Sacramento.

Architect—George Sellen & Co., Cal-

ifornia State Life Bldg., Sacra-

mento.

Proposed project is in the financing

stage.

Contract Awarded.

ALTERATIONS Cost, \$—
SAN FRANCISCO, 209 - 229 Golden Gate Avenue.
 Alterations to building for offices, etc. Owner—Warner Brothers, 243 Golden Gate Avenue.
 Architect—G. Albert Lansburgh, 140 Montgomery St.
 Contractor—Dinwiddie Const. Co., Crocker Bldg.

Plans Being Completed.

STORE AND OFFICES Cost, \$—
LOS ANGELES, Cal. 812 Atlantic Ave. and Whittier Blvd.
 Two-story brick and stucco store and offices (110x125 feet).
 Owner—National Commercial Properties, Ltd.
 Architect—John P. Krempel and W. E. Erkes, Transamerica Bldg., Los Angeles.

Being Done By Day's Work.

LUNCH ROOMS Cost, \$5000 each
OAKLAND, Alameda Co., Cal. 20th St. and San Pablo Ave.
 Two one-story concrete and wood lunch rooms.

Owner—Kem Bemis, 1962 San Pablo Ave., Oakland.
 Architect—Hardman & Russ, Berkeley Bank Bldg., Berkeley.

A group of similar buildings will be constructed at a later date.

Plans Being Completed.

ALTERATIONS Cost, \$25,000
SACRAMENTO, Sacramento Co., Cal. Ninth St. near K St.
 Alterations and additions to one-story and basement brick store and bank.
 Owner—Peoples Finance & Thrift Co., 1005 8th St., Sacramento.
 Architect—Charles Dean, California State Life Bldg., Sacramento.
 Bids will be taken in one week.

Plans Being Revised.

BANK BLDG. Cost, \$100,000
CHICO, Butte Co., Cal. Broadway and Second Sts. (95x11-ft.)
 One-story reinforced concrete bank (steel truss, marble work, etc.)
 Owner—Bank of Italy.
 Architect—H. A. Minton Bank of Italy Bldg., San Francisco.

Bids will be taken in about 1 week.
 There will be a space of 21 ft. between the ceiling and the floor and the lateral interior will be of marble and acoustical plaster, with low type screens of bronze. The general construction will be of concrete, with steel trusses instead of pillars to support the roof.

To Be Done By Day's Work.

OFFICES Cost, \$30,000
SAN FRANCISCO, NE Army and Missouri Sts.
 Two-story and basement frame and stucco offices.
 Owner—Soule Steel Co., 1750 Army St.
 Plans by Eng. Dept. of Owner.

November 29, 1930

Revising Plans.

STORE, ETC. Cost, \$—
LOS ANGELES, Cal. Eighth and Flower Streets.
 Five-story and basement Class A reinforced concrete store and lofts (45x152 feet).
 Owner—Owl Realty Co., Metropolitan Bldg., Los Angeles.
 Architect—Edwin Bergstrom, Citizens National Bank Bldg., Los Angeles

LOS ANGELES, Cal.—Bank of America's construction program for the next six months includes the erection of a new building in Hollywood corner of 2200, and a building at the corner of Wilshire Blvd. and La Brea Ave. to cost \$75,000. Associated architects H. A. Minton, San

Francisco, and John P. Krempel and Walter E. Erkes, 415 Transamerica Bldg., Los Angeles, will prepare the plans

Construction Postponed Indefinitely.

STORE Cost, \$—
RICHMOND, Contra Costa Co., Calif. Twenty-third St. and Macdonald Ave. (140x123-ft.)
 One-story brick store (Spanish type; 24,000 sq. ft.)
 Owner—Los Angeles Syndicate (Names Withheld).
 Architect—Hamilton Mordock, Syndicate Bldg., Oakland.

Contract Awarded.

STORES Cont. Price \$8,973
SAN JOSE, Santa Clara Co., Cal. 7th and Julian Sts.
 Two-story reinforced concrete stores and lodge building.
 Owner—Modern Order of Bucks (colored organization).
 Architect—Charles McKenzie, Twohy Bldg., San Jose.
 Contractor—M. W. Reese, 1210 Minnesota St., San Jose.

Grading Completed.

BANK Cost, \$15,000
SAN FRANCISCO, Divisadero St. and Hayes St.
 One-story and basement reinforced concrete bank.
 Owner—Bank of Italy.
 Architect—H. A. Minton, Bank of Italy Bldg., Eddy and Powell Sts.
 Contractor—Jacks and Irvine, 74 New Montgomery St.
Grading—Slack Grading & Teaming Co., 164 Landers St.

Completing Plans.

BANK Cost, \$60,000
LOS GATOS, Santa Clara Co., Cal. Main St. and Santa Cruz Avenue (52x100 feet).
 One-story reinforced concrete bank with tile roof (ornamental stone and acoustical plaster).
 Owner—Bank of Italy.
 Architect—H. A. Minton, Bank of Italy Bldg., San Francisco.
 There will be two stores, 20x72 ft. in connection with building.
 Bids will be called for shortly.

FRESNO, Fresno Co., Calif.—Marshall Lawson, San Diego, is reported to be preparing plans to remodel the Fred Herold Building in Fulton St., recently purchased by the Clark Dollar Stores, now occupying quarters at Fulton and Kern Sts. The alterations will involve complete remodeling of the interior, installation of store fixtures and equipment, including refrigeration. The cost is estimated at \$75,000.

Plans Being Prepared.

BANK Cost, \$60,000
SAN JOSE, Santa Clara Co., Calif. First Street.
 Two-story steel and concrete bank (25x137½-ft.)
 Owner—Italian National Bldg. & Loan Assn.
 Architect—F. Eugene Barton, Crocker Bldg., San Francisco.
 Will have terra cotta front, bronze grills, marble floors and counters, vault door, etc. Bids will be taken about Jan. 2, 1931.

Plans Being Figured.

STORE Cost, \$100,000
OAKLAND, Alameda Co., Cal. 1717 Broadway
 Two-story and basement reinforced concrete store (75x110-ft.)
 Owner—Mrs. William E. Bowles, Russ Bldg., San Francisco.
 Architect—Doug's Store, 1706 Broadway, Oakland.
 Bids are being taken for a general contract.

Owner Taking Bids.

STORE Cost, \$35,000
SALINAS, Monterey Co., Cal. Main Street
 One-story and mezzanine floor reinforced department store.
 Owner—Porter & Irvine, 210 Main St., Salinas.
 Architect—M. W. Morrison, 601 42nd Ave., San Francisco.

Plans Being Revised.

BANK Cost, \$—
MONTREY, Monterey Co., Cal. Location not selected.
 One-story and mezzanine steel frame and concrete bank
 Owner—Montreoy County Trust and Savings Bank.
 Architect—H. H. Winner Co., 580 Market St., San Francisco.
 Bids will be taken in two or three weeks.

Contract Awarded.

OFFICES Cost, \$200,000
LOS ANGELES, Cal. N Fifth St. bet. Hill and Olive.
 Three-story and basement class A reinforced concrete offices (41x125-feet).
 Owner—State Mutual Building & Loan Association.
 Architect—Williams Richards, Architects Bldg., Los Angeles.
 Contractor—William Simpson Const. Co., Architects Bldg., Los Angeles.

THEATRES

Plans Being Completed.

THEATRE Cost, \$150,000
SANTA ANA, Orange Co., Cal. Broadway.
 Two-story Class C brick theatre (50x150 feet) (to seat 900).
 Owner—United Artists.
 Architect—Balch & Stanberg, Film Exchange Bldg., Los Angeles.
 Bids will be taken in about two weeks.

Work Under Way.

ALTERATIONS Cost, \$—
OAKLAND, Alameda Co., 1320 Broadway.
 Alterations to theatre.
 Owner—T. & D. Enterprises, 25 Taylor St., San Francisco.
 Plans by Owners.

Contractor—Salih Bros., 25 Taylor St.

FAIRFIELD, Solano Co., Cal.—Mallom & Stanley, operating the Solano Theatre, have let contract to Bernewitz Decorating & Painting Co., Vallejo, for redecorating the interior of the structure. New seating will be installed.

Contract Awarded.

ALTERATIONS Cost, \$—
SAN FRANCISCO, 644 Broadway.
 Alterations to interior of theatre.
 Owner—Golden State Theatres, 25 Taylor St.
 Engineer—L. H. Nishkian, 525 Market Street.
 Contractor—Salih Bros., 25 Taylor St.

Contracts Awarded.

THEATRE Cost approx \$1,000,000
OAKLAND, Alameda Co., Cal. Broadway near Hobart Street.
 Class A theatre building.
 Owner—Publix Theatres, Inc.
 Architect—Miller & Pflueger, 580 Market St., San Francisco.
 Contractor—George Wagner, 181 South Park, San Francisco.
Plumbing—Scott Co., 113 10th St., Oakland.
Sprinkler System—James Pinkerton, 927 Howard St., San Francisco.
Elec. Work—Hedelfinger Bros., 234 4th St., San Francisco.
Heating and Ventilating—Carrier Engineering Corp., Ltd., 748 E. Washington St., Los Angeles.

Sub-Contracts Awarded.

ALTERATIONS—Cost, \$24,332
OAKLAND, Alameda Co., Cal. No.
 5631 College Avenue
 Alterations to two-story Class C brick
 theatre.

Owner—Up Town Theatre, Premises.
Architect—A. A. Cantlin, 541 Market
 St., San Francisco.

Contractor—Alfred J. Hooper, 1769
 Pleasanton Valley Road, Piedmont

Steel Work—Pacific Coast Engineering
 Co., Foot of 14th St., Oakland.

Lumber—E. K. Wood Lumber Co.,
 Frederick and King Sts., Oakland.

Sash and Doors—Western Door &
 Sash Co., Fifth and Cypress Sts.,
 Oakland.

Plastering—Wallace Biddle, Oakland.
Steel Bars—Truscon Steel Co., Call
 Bldg., San Francisco.

Concrete Material—Makin & Kennedy
 101 4th St., Oakland.

Electrical Work—Matson-Seabrooke
 Co., 4115 Broadway, Oakland.

Painting and Decorating—M. Santeo-
 concio, 58 Monterey St., San Fran-
 cisco.

Sub-Contracts Awarded.
REMODELING Cost, \$—
FRUITVALE, Alameda Co., Cal. No.
 3720 E-14th Street.

Remodel theatre (enlarge foyer).
Owner—Golden State Theatres, Inc.
Architect—Reid Bros., 105 Montgom-
 ery St., San Francisco.

Contractor—Alf. Hooper, 1769 Pleas-
 anton Valley Rd., Piedmont.

Lumber—E. K. Wood Lumber Co.,
 Frederick and King Sts., Oakland.

Tile Work—Rigney Tile Co., 3012 Har-
 rison St., Oakland.

Ornamental Iron—J. A. Petersen, Oak-
 land.

Cast Cement and Plaster Ornaments—
 Fred Jurgewitz, 1632 20th Ave.,
 Oakland.

Plumbing—Walter Grey, 3734½ E-14th
 St., Oakland.

Electrical Work—Matson-Seabrooke
 Co., 4115 Broadway, Oakland.

Steel Toilet Partitions—Albatross
 Steel Equipment Co., 557 Market
 St., San Francisco.

WHARVES AND DOCKS

OAKLAND, Cal.—Warden & For-
 sythe, 264 Syble Ave., San Leandro,
 at \$835 awarded contract by City
 Port Commission, 424 Oakland Bank
 Bldg., for laying railroad tracks east
 of the 345-ft. extension to 11th St.
 Wharf, Outer Harbor Terminal.

**MISCELLANEOUS
CONSTRUCTION**

SAN FRANCISCO—Engineers Hunter
 and Hudson, 41 Sutter St., will ask
 bids shortly for complete electric wiring
 and night illumination system for the
 \$1,250,000 baseball park now in
 course of construction at 15th St. and
 Potrero Ave. for the San Francisco
 Baseball Club, Lindgren & Swinerton,
 general contractors, 225 Bush St.;
 H. J. Brunner, Sharon Bldg., engi-
 neer.

SAN FRANCISCO—Until January
 12, bids will be received by the Board
 of Supervisors for the construction
 and operation of a new incinerator.
 Plant shall handle 800 tons of garbage
 a day and shall revert to the city free
 of cost at the end of 25 years, unless
 purchased before that time. The
 charge per ton shall not exceed \$1.
 Specifications and further particulars
 obtainable from J. S. Dunnigan,
 Clerk of the Board of Supervisors,
 2nd Floor, City Hall.

Sub-Contracts Awarded.

SHOP Cost, \$30,000
MULE CREEK, Amador Co., Cal.
 Reinforced concrete dam and wing
 wall shop building, blacksmith
 shop and pumping station.

Owner and Engineer—Stephen E.
 Kieffer, 57 Post St., San Francisco

Supt. of Constr.—J. J. Leary, lone.
Contractor—Guth & Fox, 1516 21th
 St., Sacramento.

Lumber—Dealan Bldg. & Material Co.,
 31st and P Sts., Sacramento.

Cement—Calaveras Cement Co.,
 Reinforcing Steel—Wm. Weaver, 26th
 St and First Ave., Sacramento.

Hardware—Murphy & Low, 1009 J St.,
 Sacramento.

Concrete Work—Frank Harkin, 1616
 Seventh St., Sacramento.

Plans Being Prepared. Cost, \$20,000
STATION
PITTSBURG, Contra Costa Co., Cal.

Spanish style, tile and stucco, railroad
 station.

Owner—Sacramento Northern Rail-
 road, Mills Bldg., San Francisco.
Plans by Eng. Dept. of Owners.

This structure will be similar to
 that recently erected by the railroad
 company at Chico.

Preparing Working Drawings.
ALTERATIONS Cost, \$25,000
OAKLAND, Alameda Co., Cal. Tele-
 graph Ave. near 28th St.

Alterations and additions to two-story
 and basement brick veneer resi-
 dence for mortuary and chapel.

Owner—Grant D. Miller, 2368 E 14th
 St., Oakland.

Architect—Miller and Warnecke, Fi-
 nancial Center Bldg., Oakland.

Bids will be taken in about 2 weeks.

SAN FRANCISCO—Healy - Tibbitts
 Const. Co., 64 Pine St., at \$7,215 sub-
 mitted low bid to Board of Public
 Works to construct reinforced con-
 crete trestle to support 44-inch pipe
 line of municipal water department
 at Alemany Blvd.; estimated cost, \$7-
 000. Project will involve:

4,000 lin. ft. timber piling;
 110 cu. yds. reinf. concrete piers,
 slab and girders (class A);

30 cu. yds. plain concrete piers
 (class B);

18,500 lbs. reinforcing steel in place.

Complete list of bids follows:
 Healy-Tibbitts Const. Co. \$ 7,315

L. J. Cohn 7,350
 M. E. McGowan 7,625

C. W. Haun 7,840
 *McCarthy & Johanss (void).... 7,995

C. E. Eaton 9,225
 P. McHugh 9,319

Barrett & Hilp 10,560
 E. J. Treacy 10,775

*Bid of McCarthy and Johanss was
 declared irregular due to failure to
 have same sworn before a notary.

**MISCELLANEOUS SUPPLIES
AND MATERIALS**

OAKLAND, Calif.—Until December
 10, S. P. M., bids will be received by
 John H. Kimball, secretary, East Bay
 Municipal Utility District, 512 16th
 St., to furnish approximately 50 tons
 of pig lead. Specifications obtainable
 from above.

BUSINESS OPPORTUNITIES

SAN FRANCISCO—Names and ad-
 dresses of the individuals or firms
 concerned in the following opportuni-
 ties will be furnished on request to
 the Business Opportunity Department
 of Daily Pacific Builder, 545-547 Mis-
 sion Street. Phone Garfield 8744.

20651—Representation. Nuevitas,
 Cuba. Party is interested in obtain-
 ing the representation of a bean ex-
 porter to Cuba.

20653—Chemicals. Hamburg, Ger-

many. Party is interested in working
 as selling and buying agent for chem-
 icals in Hamburg.

20655—Lamps. Tokio, Japan. Ex-
 porters of electric decoration and fancy
 colored lamps desire to contact local
 importers.

20657—Electric Light Bulbs. Yoko-
 hama, Japan. Exporters of electric
 light bulbs made in Japan are desir-
 ous of getting in touch with local im-
 porters.

20659—Mohair. San Francisco. A
 large commercial and exporting firm
 in the Hawaiian Islands wishes to
 correspond with manufacturers of mo-
 hair, to receive samples, prices and
 size.

31
 Doubler Chemical Co. (Mr. M. P.
 Kahn), 242 N 10th St., Newark, N. J.,
 manufacturers of chemical to be used
 with paint, desires to secure repre-
 sentation in this vicinity.

H. & R. Manufacturing Co. (Mr. H.
 J. Ryan), Palms Stations, Los An-
 geles, Calif., manufacturing a new
 combination seeder, fertilizer and top
 dressing machine, in two models, one
 for golf courses, schools, etc., and the
 other for gardeners, and also a chalk-
 ing machine for use in marking ten-
 nis courts, football fields, etc., wish-
 es representation.

H. K. Grant, 204 S 1st St., East,
 Cedar Rapids, Iowa, has facilities for
 manufacturer or distributor who wish-
 es to establish a distributing point in
 that locality.

W. F. Pierce, Fountain Square
 Bldg., Cincinnati, Ohio, represents a
 firm with exclusive manufacturing,
 distributing and sales rights in auto-
 matic water power dish washer for
 the United States and foreign coun-
 tries, wishes to contact with concern
 in this vicinity, looking for new pro-
 duct to add to their line.

**ELASTIC SOLID STRESSES
REPORTED IN BOOKLET**

The question as to what stresses
 are produced within the area of con-
 tact when one elastic solid is pressed
 against another has for a long time
 been recognized as one of great im-
 portance. That a solution of the ques-
 tion has a definite practical applica-
 tion may be realized when it is con-
 sidered that the calculation of the
 stresses encountered in ball and roller
 bearings, bridge rollers, rolling lift
 bridges and solid on rails is impos-
 sible by the common formulae of me-
 chanics. The design of such struc-
 tural parts is based largely on results
 of tests, or trial and error methods.

Bulletin No. 212 of the Engineering
 Experiment Station of the University
 of Illinois contains the report of an
 investigation conducted to find a so-
 lution of this problem. One chapter
 is devoted to the mathematical meth-
 od of solution and the remainder of
 the bulletin contains the results of
 the laboratory work involved in the
 verification of the mathematical anal-
 ysis.

By using the methods of solution
 presented in the bulletin it was found
 possible to compute the principal
 stress components within the area of
 contact, both at the surface and at
 points below the surface, when one
 elastic body was pressed against an-
 other. It was also possible to com-
 pute the maximum shearing stress,
 due to the difference of stress com-
 ponents, and to determine the dis-
 tance from the contact surface to the
 point of maximum shear, as well as
 the area of contact. The accuracy of
 the calculations of maximum shear-
 ing stresses in the interior of a body
 was verified by a strain-gage method.

Copies of Bulletin No. 212 may be
 obtained without charge by address-
 ing the Engineering Experiment Sta-
 tion, Urbana, Illinois.

Engineering News Section

BRIDGES

*MARIN COUNTY, Calif.—As previously reported, Healy-Tibbitts Construction Co., 64 Pine St., San Francisco, at \$329,667 submitted the low bid to the State Highway Commission Nov. 26 to construct a bridge across Richardson Bay and over the tracks of the Northwestern Pacific Railway at Manzanita, consisting of one 56-ft. plate girder lift span on concrete piers with pile foundations, one 45-ft. steel stringer span on concrete bents with pile foundations and approximately 3,240-ft. of timber trestle on pile and frame bents. Following is a complete list of the unit bids received on the project:

(1) 700 cu. yds. struc. excavation;
(2) furnish and drive test piles;
(3) 2500 lin. ft. furnishing untreated Douglas fir piles (44-ft. and under)
(4) 6200 lin. ft. furnishing untreated Douglas fir piles (45-ft. and over)
(5) 2000 lin. ft. furnishing creosoted Douglas fir piles (44-ft. and under)
(6) 2520 lin. ft. furnishing creosoted Douglas fir piles (45 to 64 ft.)
(7) 17,900 lin. ft. furnishing creosoted Douglas fir piles (65 to 84 ft.)
(8) 28,600 lin. ft. furnishing creosoted Douglas fir piles (85-ft. and over)
(9) 3100 lin. ft. furnish redwood piles (84-ft. and under)
(10) 29,750 lin. ft. furnish redwood piles (85-ft. and over)
(11) 1138 each, drive timber piles
(12) 1900 lin. ft. reinf. conc. piles
(13) 50 tons gravel backfill
(14) 66 cu. yds. class A Portland cement concrete (placed by tremie)
(15) 580 cu. yds. class A Portland cement concrete (structure)
(16) 455 cu. yds. class B Portland cement concrete
(17) 72,000 lbs. reinforcing steel
(18) 315,000 lbs. structural steel
(19) 5200 lbs. cast steel
(20) 1600 M. ft. b.m. redwood timber, select, all-heart structural grade
(21) 520 M. ft. b.m. redwood timber, select all-heart structural grade
(22) 10.5 M. ft. b.m. Douglas fir timber, select structural grade
(23) 1300 tons asphalt conc. pavement
(24) 280 sq. yds. asphalt plank
(25) 1 unit operating machinery, complete

(26) 1 lot miscellaneous items of work
The total bids were:

(A) Healy-Tibbitts Const. Co., \$329,667.50.
(B) H. W. Rohl Co., \$333,335.
(C) Frederickson & Watson Const. Co., et al., \$340,972.
(D) MacDonald & Kahn, \$341,436.20.
(E) Pacific Bridge Co., \$343,961.
(F) Merritt, Chapman & Scott, \$346,710.60.
(G) Lord & Bishop, \$347,499.
(H) Rocca & Colletta, \$352,131.10.
(I) Putte Const. Co., \$353,786.90.
(J) Siems Helmers, Inc., \$367,335.50.
(K) Skeels & Graham Co., \$373,228.25.
(L) San Francisco Bridge Co., \$371,156.80.
(M) A. W. Kitchen, \$385,659.05.
(N) Mercer-Fraser Co., \$389,384.90.
(O) M. B. McGowan, \$395,228.
(P) Schuler & McDonald, \$402,620.

The unit bids follow:

(A)	(B)	(C)
..... \$ 2.00	\$ 5.00	\$ 8.50
..... 1000.00	4000.00	650.00
..... .25	.25	.23
..... .25	.25	.26
..... .70	.70	.68
..... .70	.80	.75
..... .75	.90	.78

(8)	.80	1.00	.30
(9)	.60	.30	.68
(10)	.70	.30	.85
(11)	13.00	12.00	16.00
(12)	3.60	3.00	3.00
(13)	3.00	3.00	2.50
(14)	20.00	54.00	22.50
(15)	25.00	15.00	17.00
(16)	22.00	15.00	17.00
(17)	.05	.04	.04
(18)	.065	.05	.07
(19)	.15	.10	.12
(20)	80.00	82.00	82.00
(21)	85.00	80.00	81.00
(22)	75.00	100.00	75.00
(23)	6.00	4.00	5.75
(24)	3.00	3.00	3.50
(25)	9000.00	4000.00	9500.00
(26)	1700.00	500.00	700.00
(1)	..... \$ 3.00	\$ 6.50	\$ 1.50
(2)	..... 110.00	500.00	775.00
(3)	..... .193	.20	.21
(4)	..... .21	.21	.22
(5)	..... .705	.70	.71
(6)	..... .385	.80	.78
(7)	..... .35	.83	.82
(8)	..... .35	.96	.96
(9)	..... .64	.70	.65
(10)	..... .852	.85	.84
(11)	..... 15.00	10.00	13.00
(12)	..... 2.50	5.00	2.10
(13)	..... 3.25	3.00	1.90
(14)	..... 32.00	20.00	13.50
(15)	..... 11.50	18.00	25.00
(16)	..... 13.00	16.50	21.00
(17)	..... .045	.045	.04
(18)	..... .07	.07	.065
(19)	..... .135	.20	.115
(20)	..... \$4.25	\$2.50	\$5.30
(21)	..... \$5.50	\$0.00	\$9.00
(22)	..... \$2.00	\$0.00	\$4.00
(23)	..... \$2.50	\$0.00	\$5.50
(24)	..... \$5.00	\$3.00	\$3.10
(25)	..... \$800.00	\$800.00	\$530.00
(26)	..... \$700.00	\$200.00	\$250.00
(1)	..... \$ 5.00	\$ 3.50	\$ 5.10
(2)	..... 1000.00	2000.00	68.00
(3)	..... .25	.22	.24
(4)	..... .30	.28	.28
(5)	..... .90	.71	.775
(6)	..... 1.00	.78	.86
(7)	..... 1.05	.83	.92
(8)	..... 1.10	.97	1.09
(9)	..... .70	.76	.62
(10)	..... .90	.81	.95
(11)	..... 12.00	19.00	12.00
(12)	..... 3.50	2.80	3.15
(13)	..... 3.00	3.50	3.36
(14)	..... 23.00	16.00	19.10
(15)	..... 23.00	18.00	16.30
(16)	..... 20.00	18.00	12.10
(17)	..... .15	.045	.012
(18)	..... .065	.07	.07
(19)	..... 15	15	146
(20)	..... 80.00	58.85	\$8.27
(21)	..... 80.00	84.00	84.55
(22)	..... 50.00	60.00	95.40
(23)	..... 6.00	6.20	5.80
(24)	..... 4.00	5.10	4.10
(25)	..... 7500.00	8000.00	\$239.00
(26)	..... 1000.00	500.00	\$29.00
(1)	..... \$ 1.20	\$ 4.00	\$ 5.00
(2)	..... 300.00	1000.00	540.00
(3)	..... .25	.27	.29
(4)	..... .27	.31	.29
(5)	..... .77	.86	.82
(6)	..... .85	.96	.84
(7)	..... .90	1.00	.92
(8)	..... 1.07	1.15	.98
(9)	..... .71	.73	.71
(10)	..... .93	.96	.88
(11)	..... 13.50	12.50	10.00
(12)	..... 4.00	5.00	3.75
(13)	..... 3.00	3.25	4.75
(14)	..... 10.00	18.00	32.00
(15)	..... 1.00	22.00	20.00
(16)	..... 23.50	18.00	20.00
(17)	..... .0475	.04	.06
(18)	..... .065	.065	.075

(19)	.12	.15	.15	
(20)	\$7.50	\$0.50	\$0.00	
(21)	55.00	88.50	102.00	
(22)	83.00	55.50	157.00	
(23)	6.50	6.25	6.10	
(24)	5.70	5.00	5.00	
(25)	\$21.00	\$800.00	\$154.00	
(26)	750.00	500.00	2000.00	
(M)	(N)	(O)	(P)	
(1)	\$.65	\$ 10.00	\$ 9.00	\$ 5.00
(2)	160.00	1000.00	1182.00	1500.00
(3)	.25	.18	.25	.29
(4)	.25	.29	.27	.22
(5)	.74	.65	.75	.75
(6)	.80	.72	.90	.80
(7)	.845	.76	.90	.90
(8)	1.00	.88	1.00	1.00
(9)	.70	.77	.75	.50
(10)	.90	.87	1.00	1.10
(11)	13.50	26.00	20.00	20.00
(12)	2.85	4.00	4.00	3.00
(13)	2.75	3.00	7.00	2.60
(14)	21.50	25.00	20.00	15.00
(15)	19.75	30.00	25.00	25.00
(16)	21.75	20.00	20.00	18.30
(17)	.047	.04	.05	.04
(18)	.067	.07	.065	.07
(19)	.135	.11	.12	.15
(20)	102.00	95.00	95.00	100.00
(21)	107.00	96.00	105.00	90.00
(22)	71.00	98.00	70.00	50.00
(23)	6.40	5.00	6.00	5.00
(24)	5.20	4.50	3.50	3.00
(25)	7623.00	7000.00	7000.00	11000.00
(26)	346.00	450.00	1000.00	5000.00

OAKLAND, Cal.—Until Dec. 16, 13-30 A. M., bids will be received by G. E. Gross, county clerk, for cleaning and painting of steel and iron and painting certain timber work on the Bay Island Farm Bridge in Brooklyn Township. Certified check 10% payable to county clerk required with bid. Specifications obtainable from clerk on deposit of \$25, returnable

BUTTE COUNTY, Cal.—R. B. McKenzie, Red Bluff, at \$32,370 awarded contract by State Highway Commission to construct substructure of a bridge over North Fork of the Feather River at Pulga, consisting of two reinforced concrete abutments, two reinforced concrete piers, six concrete footings and four erection anchors

EUREKA, Humboldt Co., Calif.—County Surveyor Frank Kelly instructed by county supervisors to make preliminary surveys for a bridge across the Eel River at Shively, in southern Humboldt county.

STOCKTON, San Joaquin Co., Cal.—U. S. War Department has authorized the county supervisors to construct bridge over the San Joaquin River near Stockton to replace the present Garwood Ferry bridge. The county supervisors have set aside \$70,000 in the present budget and early construction is contemplated. Bridge will be of the draw span type with 21 ft. roadway and 302 ft. in length over all; swing span will be 258 ft. long. Julius Manthey is county surveyor.

SANTA BARBARA, Cal.—Roy L. Richardson & Son, 2611 Orela St., Santa Barbara, awarded contract by the county supervisors at \$5940 to construct reinforced concrete bridge on Patterson Ave. over San Jose Creek. The other bids were: J. J. Munnenan, \$6480; Silveria & Robbins, \$6800; W. M. Ledbetter & Co., \$7200; J. F. Kuhns Const. Co., \$7650.

BUTTE COUNTY, Cal.—J. H. Pomerooy Co., 251 Kearny St., San Francisco, at \$139,648, submitted low bid to State Highway Commission, Dec. 3, to construct steel bridge with concrete deck over the tracks of the Western Pacific Railroad and across north fork of Feather River at Pulga, composed of one 349.95 ft. steel arch span, one 32.14 ft. plate girder span, one 79.06 ft. plate girder span, two 52.51 ft. plate girder spans and one 44.02 ft. plate girder span. Project involves: 590 cu. yds. class A Portland cem. conc.; 92,000 lbs. reinf. steel; 1-540,000 lbs. struc. steel including erection steel; 35,000 lbs. cast steel; 59,000 lbs. struc. in railing; 34,000 lbs. cast iron in railing; 1000 lbs. bronze expansion plates; 1 lot misc. items of work. A complete list of bids follows:

J. H. Pomerooy Co.	\$139,548
Rocca & Coletti, San Rafael	148,760
Gutleben Bros., Oakland	158,215
M. B. McGowan, S. F.	161,550
C. J. Nystedt, Oakland	171,590
Minneapolis-Moline Power Implement Co., Los Angeles	172,897

DREDGING, HARBOR WORKS & EXCAVATIONS

MARE ISLAND, Cal.—Navy Department has provided \$50,000 for preliminary work in connection with the construction of a 7000 ft. seawall at the Mare Island Navy Yard. The wall will be built south from Independence Dock toward the Magazine Wharf. A portion of the \$50,000 will be used in dredging and trestle work.

STREET LIGHTING SYSTEMS

VISALIA, Tulare Co., Calif.—Butte Electrical and Manufacturing Co., 956 Folsom St., San Francisco, at \$19,999.50 awarded contract by city council (137-C) to install ornamental electrolit system with 52 two-light standards, together with underground system in portions of North and South Locust St.; North and South Court St., etc. Standards of Union Metal Mfg. Co.'s Design No. 2281. Bid was \$50 less than the next low bidder.

RED BLUFF, Tehama Co., Cal.—Butte Electric & Manufacturing Co., 956 Folsom St., San Francisco, at \$3873 awarded contract by city council (191-D) to install ornamental street lighting standards together with underground system in Walnut St., etc. Standards of Union Metal Mfg. Co. Design No. 762, 1 light. Complete list of bids follow:

Butte E. & M. Co.	\$3873
City Imp. Co., Berkeley	3968
Luppen & Hawley, Sacramento	4107
Cox Elec. Co., Red Bluff	4321

MACHINERY AND EQUIPMENT

CARMEL, Monterey Co., Cal.—Farmer's Mercantile Co., Salinas, at \$2225 with an allowance of \$650 on a turn-in, awarded contract by city council to furnish a tractor for the street department and at \$1375 for a grader, allowance on a turn-in, \$50 for the present grader.

SOUTH GATE, Los Angeles Co., Cal.—Until 7:30 P. M., Dec. 16, bids will be received by the city council for furnishing:

- (1) One 21-passenger bus chassis;
- (2) One 21-passenger bus body;
- (3) One 21-passenger bus, bidder to furnish complete descriptive literature and specifications.

E. R. Adams, Bus Superintendent. Certified check or bond, 10%. H. C. Peiffer, city clerk.

TORRANCE, Los Angeles, Cal.—Until 8 P. M., Dec. 16, bids will be received by the city council for trucks as follows:

One 6-cyl. 1½-ton truck, with cab, and equipped with Duo Drive wheels, 6-ft.x11-ft. platform stake body, and Wood Hydraulic Hoist. Delivery to be made in 5 days.

One 4-cyl. 1½-ton truck, with cab, also equipped with Duo Drive wheels, 6-ft.x9-ft. platform stake body, and Wood Hydraulic Hoist of two or more ton capacity. Delivery to be made in 5 days.

A. H. Bartlett is the city clerk.

FRESNO, Fresno Co., Cal.—Until December 16, 7 P. M., bids will be received by J. O. Steinhauer, Clerk, Orange Center School District, to furnish one school bus for transportation of pupils. Bids must not exceed \$2000. Certified check or bidder's bond 10% required with bid. Specifications obtainable from clerk.

LA MESA, San Diego Co., Cal.—Advertising for bids for a new crawler type, 15 h.p. tractor, with an 8-ft. scraper blade and scarifier attachments, for the street department, has been ordered by the city council.

OAKLAND, Calif.—Until December 10, 8 P. M., bids will be received by John H. Kimball, secretary, East Bay Municipal Utility District, 512 16th St., to furnish five standard model A Ford Coupes, allowances to be made for cars no longer required by the district. Further information obtainable from secretary.

SANTA CLARA, Santa Clara Co., Cal.—City trustees reject bids to furnish and deliver a motor driven street sweeper. It is probable that the equipment will be purchased in the open market. Go. L. Sullivan, city engineer.

STOCKTON, San Joaquin Co., Cal.—Supervisors authorize county purchasing agent to purchase a motor road grader at a price not to exceed \$3,550. Eugene Graham is county clerk.

FIRE ALARM SYSTEMS

LOS ANGELES, Cal.—Until 11 A. M., Dec. 16, bids will be received by the City Purchasing Agent, 107 City Hall, for furnishing and installing traffic signals on Wilshire Blvd., at Twenty-three intersections.

FIRE EQUIPMENT

SACRAMENTO, Cal.—Seagrave Corp. awarded contract by city council to furnish a 750-gallon pumping unit for proposed new fire station at Stockton Blvd. and Sixth Ave.

RESERVOIRS AND DAMS

GLENDALE, Los Angeles Co., Cal.—Until 10 A. M., Dec. 30, bids will be received by the city council for the construction of two reservoirs on the city reservoir site, in accordance with plans prepared by P. Diederich, city plant superintendent. The reservoir will be built of rectangular shape, 22 ft. deep, with an area of 238,322 sq. ft. The reservoirs will be constructed adjoining, providing a total capacity of 35,000,000 gallons. They will be of the retaining wall type with reinforced concrete roof. The construction involves:

26,000 cu. yds. reinforced concrete;
160,000 cu. yds. excavation;
10,000 cu. yds. tamped embankment;
22,000 cu. yds. earth placed on concrete roof.

VICTORVILLE, San Bernardino Co. Cal.—Mojave River Irrigation District has filed application with the State Department of Public Works, Division of Water Rights, seeking authorization to divert 55,000-ac. ft. of water a year from Deep Creek and the west fork of the Mojave River in San Bernardino County. Dam and diversion works are estimated to cost \$1,500,000 and are to irrigate 26,878 acres. Dam will be 20-ft. high and 75-ft. long.

SANTA ANA, Orange Co., Cal.—The Hoover-Young Water Commission is reported to have included in its recommendations an item of \$15,000,000 for flood control works on the Santa Ana River. The final report of the commission is being drafted. From reliable sources, it was learned that the federal-state report will embrace the following outstanding features:

1. \$76,000,000 Kern dam in the upper Sacramento river, to be used for flood control, power development, salt water control, and increased navigation of Sacramento River.
2. \$5,000,000 industrial canal, to carry fresh water for irrigation and power purposes.
3. \$35,000,000 Friant dam on the San Joaquin river in Fresno county to supply water for the thirsty farm lands of southern San Joaquin Valley, now irrigated by wells.
4. \$24,000,000 series of booster dams at the mouth of the San Joaquin river, Sacramento to the San Joaquin, to transfer surplus water from the
5. \$15,900,000 for flood control works on the Santa Ana river in Southern California.

The Friant dam and the industrial dam are two entirely new projects proposed as part of the co-ordinated water program for the State of California.

PIPE LINES, WELLS, ETC.

WHITTIER, Los Angeles Co., Cal.—Until 7:30 P. M., Dec. 8, bids will be received by the city council for

CONTRACTORS' MACHINE WORKS SPECIALISTS ON REPAIRING AND REBUILDING OF

Bunkers, Hoppers, Chuting, Conveyors, Rollers, Mixers, Hoists, Shovels, Tractors, Favers, Crushers, Drag Lines, Elevators, Car Unloaders, and other Road and Building Equipments;

BLACKSMITHING AND WELDING

Builders of Rosenberg Portable Car Unloaders

CREAR & BATES

57 Zoe St., bet. 3rd and 4th, off Brannan St.
Phone GARfield 4374

San Francisco

furnishing steel pipe, including fittings, as follows:

- (1) 143 ft. 30-in.;
- (2) 39 ft. 24-in.;
- (3) 210 ft. 10-in.

Specifications may be seen at the office of Mrs. Debbie E. Allen, city clerk. Certified check or surety company bond, 10%.

LINDSAY, Tulare Co., Cal.—Until December 16, 7:30 P. M. bids will be received by E. V. Bogart, city clerk, to drill and case well in Lindsay Park on north city limits. Specifications on file in office of clerk.

SANTA CLARA, Santa Clara Co., Cal.—City trustees order bids advertised to drill new 16-inch well at municipal water plant. Specifications obtainable from City Clerk Cronin, Geo. L. Sullivan, city engineer.

SEWERS AND SEWAGE DISPOSAL PLANTS

SACRAMENTO, Cal.—J. R. Reeves Co., 12th and American River, Sacramento, at \$16,995.85 awarded contract by city council to construct field drainage system at Municipal Airport.

BERKELEY, Alameda Co., Cal.—J. M. Haney, 1707 Cedar St., Berkeley, at \$43,70 awarded contract by city council to construct storm sewer in Indian Rock Path from Arlington Ave. easterly. Other bids: R. H. Donner, \$457; W. J. Tobin, \$483.

SALINAS, Monterey Co., Cal.—R. H. Downer, 1324 Paloma Ave., Burlingame, at \$4986.30 awarded contract by city council to construct sanitary sewer in Hoover St., a sanitary sewer in alley in Block 4½ Sherwood and Hellman Addition to Salinas; a sanitary sewer in Cattleman's Lane; a storm sewer from National St. to Wilson St. storm sewer; and a storm sewer from the Southern Pacific Railroad to the Reclamation Ditch. Complete list of bids follow:

R. H. Downer.....	\$4986
Oakland Sewer Constr. Co.....	5379
Salinas Valley Concrete Pipe Co.....	5786
W. J. Tobin.....	5818
T. & H. Constr. Co.....	7280

BERKELEY, Alameda Co., Cal.—Until December 9, 10 A. M., bids will be received by Florence E. Turner, city clerk, to construct sewer in Third St. from Gilman St. to Camella St. Certified check 10% payable to city required with bid. Plans obtainable from city engineer on deposit of \$10, returnable.

GONZALES, Monterey Co., Cal.—Election will be held in January in the Gonzales Sanitary District to vote bonds of \$40,000 to finance construction of a sewer system. Members of the district are: Bert M. Carney (chairman); L. Vidroni; M. H. Woodworth and Enos DeCarli.

REDWOOD CITY, San Mateo Co., Cal.—Until Dec. 15, 10 A. M., bids will be received by Elizabeth M. Kneese, county clerk, (19) to construct sewer system in Daly City and Colma Sections; estimated cost, \$146,000. Project involves:

- Vit. Clay Pipe Sewer
- 66,000 lin. ft. 6-in.
- 1,600 lin. ft. 8-in.
- 4,600 lin. ft. 10-in.
- 2,900 lin. ft. 12-in.
- 5,400 lin. ft. 15-in.
- Cast Iron Pipe Sewer
- 2,100 lin. ft. 8-in.
- 200 lin. ft. 14-in.

- Vit. Clay Wye Branches
- 1,740 6x4-in.
- 20 8x4-in.

- 70 10x4-in.
- 100 12x4-in.
- 50 15x4-in.
- 330 manholes
- 1 concrete sedimentation tank.
- 1 gravel sludge bed with concrete floor.
- 2 brick pump sumps.
- 2 400-gal. p.m. pumps.
- 2 500-gal. p.m. pumps.
- 1 140-gal. p.m. pump.
- 2 concrete pumphouses.
- 1 corrugated iron pumphouse.

Work under 1911 Act and County Imp. Act, 1921. Plans on file in office of clerk. R. A. Klassen, engineer, Redwood City.

MISCELLANEOUS CONSTRUCTION

SAN FRANCISCO—Until January 12, bids will be received by the Board of Supervisors for the construction and operation of a new incinerator. Plant shall handle 800 tons of garbage a day and shall revert to the city free of cost at the end of 25 years, unless purchased before that time. The charge per ton shall not exceed \$1. Specifications and further particulars obtainable from J. S. Dunnigan, Clerk of the Board of Supervisors, 2nd Floor, City Hall.

WATER WORKS

SAN FRANCISCO—Until December 5, 11:30 A. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to furnish and install water supply system in Sunset Blvd. Estimated cost \$35,200. Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall.

SAN FRANCISCO—Until December 12, 10 A. M., under Schedule No. 928-31-139, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver pressure type water softener. The normal operating capacity per regeneration shall be 75,000 gallons based on water with 3.0 grains hardness per U. S. gallon. Softener shall have a normal softening rate of 100 gallons per minute. Softener shall have a maximum rate of flow of 140 gallons per minute. The maximum rate of flow shall not exceed 5 gallons per minute per square foot of zeolite area.

MERCED, Merced Co., Cal.—Until December 12, 11 A. M., bids will be received by S. P. Galvin, secretary, Merced Cemetery District, to furnish f.o.b. the cemeteries, galvanized iron pipe (American made) in quantities listed in the specifications which are obtainable from W. E. Bedesen, engineer, Shaffer Bldg., Merced.

SAN FRANCISCO—As previously reported, bids will be received December 5, 11:30 a. m., to furnish and install water supply system in Sunset Blvd.; estimated cost \$35,000. Project involves:

- (1) 10,800 lin. ft. 4-in. c.l. pipe;
- (2) 5,450 lin. ft. 2-in. galv. w.l. pipe;
- (3) 9,324 lin. ft. 1½-in. do.;
- (4) 16,920 lin. ft. 1¼-in. do.;
- (5) 27,405 lin. ft. ¾-in. do. (sprinkler lines);
- (6) 5 4-in. body, brass trimmed, wedge gate, non-rising stem, standard valves, with hub ends, including 4-in. valve boxes and covers and socket wrenches;
- (7) 270 brass lawn cocks, hinged cover and outlet threaded for 1-inch hose with 20 keys for above;
- (8) 30 brass boxes with hinged covers for 2-in. gate valves.

All items, furnished, delivered, installed and connected, ready for operation. Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall.

SAN FRANCISCO—Following bids received by City Purchasing Agent under Proposal No. 661, to furnish and deliver cast iron pipe, tar coated (made in U. S. A.) for Municipal Water Department:

- (a) 30,000 ft. 6-in.
- (b) 30,000 ft. 8-in.
- National C. I. Pipe Co., (a) \$52; (b) \$72 (both sizes sand spun).
- H. B. Squires, (a) \$6025; (b) \$5575 (18-ft. lengths).
- U. S. Pipe & Foundry Co., (a) \$515; (b) \$72.
- Pacific C. I. Pipe Co., (a) \$52; (b) \$735.
- American C. I. Pipe Co., (a) \$50; (b) \$735.
- The Central Foundry, (a) \$525; (b) \$735.

All bids based on delivery 45 to 60 days. Taken under advisement.

COALINGA, Fresno Co., Cal.—Hickey Pipe and Supply Co., Coalinga, at \$36 cwt. (immediate delivery) awarded contract by city council to furnish 5,000-ft. 3-inch lap-welded pipe line (7.70). Complete list of bids follows:

Richmond Sanitary Co., San Francisco (ent. mtd.).....	\$33.12
Santa Fe Pipe & Supply Co., Los Angeles.....	34.75
C. G. Claussen & Co., Inc., S. F.....	35.66
Federal Pipe Supply Co., S. F.....	35.66
Pacific Pipe Co., S. F.....	35.66
Hickey Pipe & Supply Co., Coalinga.....	36.00
Bunting Iron Works, Coalinga.....	39.05
Oil Well Supply Co., Coalinga.....	44.26

SACRAMENTO, Cal.—Until December 11, 8:15 P. M., bids will be received by H. G. Denton, city clerk, to furnish and deliver 31 water meters of various sizes for use of Water

DO NOT RISK AN EXPERIMENT

SPECIFY -- USE

Timpie Hydrated Lime

STRONG--PURE--PLASTIC

Ten Years of Uniformly Satisfactory Experience in High

Class Pacific Coast Construction

FOR BRICK MORTAR, WHITE COAT AND SAND FLOAT FINISH

Sold by Representative Dealers Everywhere

Mains Division. Certified check 5%, payable to City Controller required with bid. Specifications obtainable from city clerk.

REDWOOD CITY, San Mateo Co., Cal.—City Engineer C. L. Dimmitt preparing specifications to extend water system to take in two wells on the outskirts of the city, which, with pipe lines, will involve an expenditure of \$20,000.

PLAYGROUNDS & PARKS

REDWOOD CITY, San Mateo Co., Cal.—City Engineer C. L. Dimmitt is completing specifications for planting shade trees in parking strips in the residential section west of El Camino Real; estimated cost \$7750. Among the trees selected for planting, and the quantity of each, were the following: Indian cedars, 82; Pink Flowering Locusts, 207; Manzanita Olives, 191; California Black Walnut, 152; Dracaena palm, 281; Casuarina, 83; Pepper, 105; Live Oak, 125; European Sycamore, 135, and California Black Acacia, 155.

STREETS AND HIGHWAYS

APACHE COUNTY, Ariz.—Until December 23, P. M., bids will be received by C. H. Sweetser, District Engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, to grade 4.53 miles of Section 1 of Route 19, Clifton-Springville National Forest Highway located in and adjacent to the Apache National Forest in Apache County. Project involves: 11,600 cu. yds. excavation unclassified; 178 cu. yds. excavation for structures;

27,200 cu. yds. borrow;
4.53 mi. finishing earth graded road;
29.5 M.B.M. untreated timber in place
25 cu. yds. "A" concrete;
2,240 lbs. reinforcing steel;
896 lin. ft. c. m. pipe in place;
880 lin. ft. untreated piling in place;
3,350 lin. ft. barbed wire fence.

Plans obtainable from engineer on deposit of \$10, returnable, check for same to be made payable to Federal Reserve Bank of San Francisco.

BAKERSFIELD, Kern Co., Cal.—To relieve unemployment the Kern County supervisors will call an election shortly to vote bonds of \$2,500,000 to finance construction of a county-wide highway system and for repairs to the present county roads. P. J. Thornton is county surveyor.

SAN FRANCISCO—California Construction Co., Standard Oil Bldg., at \$45,081 submitted low bid to Board of Public Works to improve portions of Lawton St. from 12th and 17th Aves., portions of 16th Ave., 11th Ave. etc., in Golden Gate Heights District; estimated cost, \$56,000. Project involves:

163,000 sq. ft. asphalt pavement, consisting of 6-inch waterbound macadam base and 2-inch asphalt conc. wearing surface;
150,000 sq. ft. emulsified asphalt pavement, consisting of a 6-inch waterbound macadam base and 2-inch emulsified wearing surf.
19,000 lin. ft. armored conc. curb;
38 brick catchbasins;
1 catchbasin;

900 lin. ft. 10-in. V.C.P. culverts;
5,000 lin. ft. 6-in. V.C.P. side sewers.
Complete list of bids follows:
California Const. Co. \$45,081
J. F. Dowling 52,505
Pay Improvement Co. 54,937
C. B. Eaton 61,035

SAN BERNARDINO COUNTY, Cal.—State Highway Commission has can-

celled call for bids to grade and surface with oil treated crushed gravel or stone, 29.2 miles between 1½ miles east of Essex and 1 mile southwest of Klinefelter. Bids were scheduled to be opened December 23.

NEVADA COUNTY, Calif.—As previously reported, bids will be received December 23 by State Highway Commission to grade 7.4 miles between 1 mile west of Washington Road and one-half mile east of Summit. Project involves:

- (1) 58 acres clear and grub right of way;
- (2) 219,000 cu. yds. rdwy. excav. without class;
- (3) 355,000 sta. yds. overhaul;
- (4) 1850 cu. yds. struc. excav.;
- (5) 200 cu. yds. class A Portland cement concrete (structures);
- (6) 25,500 lbs. bar reinf. steel (struc.);
- (7) 84 lin. ft. 12-in. corr. metal pipe;
- (8) 2240 lin. ft. 18-in. do;
- (9) 330 lin. ft. 24-in. do;
- (10) 190 lin. ft. 8-in. perforated metal pipe underdrains;
- (11) 52 cu. yds. rubble masonry retaining wall;
- (12) 73 lin. ft. rubble masonry parapet;
- (13) 395 sta. finishing roadway;
- (14) 142 each, monuments, complete in place.

State will furnish corrugated metal pipe.

SACRAMENTO, Cal.—Until December 15, 10 A. M., bids will be received by Harry W. Hall, county clerk, to construct rock sub-base on Manzanita Ave. Certified check 10% payable to Chairman of the Board of Supervisors required with bid. Plans obtainable from County Engineer Chas. Deterding.

SEBASTOPOL, Sonoma Co., Cal.—Albert Helwig, Sebastopol, awarded contract by city council (195-a) to improve one block of Burnett St. Complete list of bids follows:

- (1) Albert Helwig, Sebastopol;
 - (2) J. V. Galbraith, Petaluma;
 - (3) E. M. McGaw, Stockton.
- | | |
|-----|-------------------------------------|
| (a) | 13,741.5 sq. ft. 5-in. conc. pave.; |
| (b) | 15,741.5 sq. ft. grading; |
| (c) | 207.8 cu. yds. excavation; |
| (d) | 821.5 lin. ft. curbs; |
| (e) | 700.0 lin. ft. expansion joints. |
- | | | | |
|-----|------------|-------------|------------|
| | (1) | (2) | (3) |
| (a) | \$18 | \$189 | \$21 |
| (b) |075 |125 |02 |
| (c) |25 |75 | 1.90 |
| (d) |45 |60 |55 |
| (e) |05 |10 |15 |

SANTA CRUZ, Santa Cruz Co., Cal.—Granite Const. Co., Watsonville, at \$8,333.96 awarded contract by county supervisors to pave Palm Ave. just outside the Watsonville city limits.

SANTA BARBARA COUNTY, Cal.—Macco Construction Co., Clearwater, at \$22,518 awarded contract by State Highway Commission to grade and pave with Portland cement concrete, 0.3 mile at Nojoqui Creek.

MARIN COUNTY, Cal.—Granfield, Farrar & Carlin, 67 Hoff Ave., San Francisco, at \$189,633 awarded contract by State Highway Commission to grade and surface with bituminous macadam, 3 miles between Alto and Waldo.

SALINAS, Monterey Co., Cal.—Until December 15, 7:30 P. M., bids will be received by M. R. Keef, city clerk (91) to improve Pajaro St. bet. Sausal and Lake Sts., involving grading, hyd. cement concrete curbs, sidewalks 6-inch hyd. cement concrete pavement. 1911 Act, Bond Act 1915. Certified check 10% payable to city required with bid. Plans obtainable from Howard Cozzens, city engineer.

HAYWARD, Alameda Co., Cal.—City council declares intention (826) to improve Prospect St., bet. Simon and Warren Sts., and Warren St., bet. Main and Prospect Sts., involving:

- (1) 700 sq. ft. concrete sidewalk;
- (2) 202 lin. ft. 4-in. vitrified clay side sewer;
- (3) 34,923 sq. ft. 6-inch full penetration Emul. Asph. macadam paving, including grading;
- (4) 54 lin. ft. redwood headerboard.

Estimated cost \$5000. 1911 Act and Bond Act 1915. Hearing December 3. M. B. Templeton, city clerk. Jesse B. Holly, city engineer.

OAKLAND, Cal.—On recommendation of City Engineer Walter N. Frickstad, the city council has cancelled a contract awarded to Hutchinson Co., Oakland, for patented paving in Fourteenth Ave., between E-12th and E-22nd Sts. The contract awarded on a bid of approximately \$80,000. The contractors will be paid \$9500 for work already completed. New bids will be asked to pave the street from E-12th to E-14th Sts., and the balance of the work indefinitely postponed.

LAS VEGAS, Nevada—Until 10 A. M., Jan. 7, bids will be received by the U. S. Bureau of Reclamation, Las Vegas, Nev., for furnishing labor and materials and performing all work for the construction of a highway, approximately 7 miles long, from the vicinity of Boulder City to the Hoover Dam Site, Boulder Canyon Project, Arizona-California-Nevada. The work is located about 25 to 30 miles southeast of Las Vegas, Nev., which town is on the main line of the Los Angeles and Salt Lake (U. P.) Railway. The principal items are:

- (1) 418,720 cu. yds. open cut excav. (all classes);
- (2) 6000 cu. yds. tunnel excav.;
- (3) 249,000 cu. yds. overhaul;
- (4) 2000 cu. yds. backfill;
- (5) 160 cu. yds. concrete;
- (6) 5000 cu. yds. concrete crib wall;
- (7) 5600 sq. yds. dry rock paving (placing);
- (8) 8000 lbs. reinforcement bars (placing);
- (9) 30 M. ft. b. m. erecting permanent tunnel timbering;
- (10) 45 M. ft. b. m. erecting timber in bridge;
- (11) 4510 ft. 18-in. to 72-in corr. metal pipe (laying);
- (12) 29,000 cu. yds. gravel surface (furnish and place);
- (13) 147,000 sq. yds. oil treating surface;
- (14) 27,000 lin. ft. guard rail.

This call for bids does not cover the purchase of materials to be furnished by the government. Materials to be furnished by the contractor and those furnished by the government are described in the specifications which will be a part of the contract. For further information bidders are directed to address the Bureau of Reclamation, Las Vegas, Nevada; Denver, Colo.; or Washington, D. C. Elwood Mead, Commissioner.

WATSONVILLE, Santa Cruz Co., Cal.—Until December 9, 7:30 P. M., bids will be received by M. M. Swisher, city clerk (1980) to improve Roosevelt St. from California to Stanford St., involving grading, macadamized and oiled with asphaltic oil, concrete curbs and gutters. Certified check 10 per cent payable to Mayor of city required with bid. Plans obtainable from H. B. Kitchen, city engineer.

BRICK SIZES AND BRICK LAYING

SAN FRANCISCO—Bureau of Engineering, Department of Public Works, 3rd floor, City Hall, completes specifications to improve crossing at Jennings St. and Underwood Ave.; estimated cost \$1,875. Project involves:

- (1) 95 lin. ft. armored concrete curb;
- (2) 660 sq. ft. 1-course concrete sidewalk;
- (3) 3 brick catchbasins;
- (4) 62 lin. ft. 10-in. V.C.P. culvert;
- (5) 4,413 sq. ft. asphalt concrete pavement, 2-in. asphalt, conc. surface on 6-in. class F conc. base.

NEVADA COUNTY, Cal.—Until December 23, 2 P. M., bids will be received by State Highway Commission to grade 7.4 miles between 1 mile west of Washington Road and $\frac{1}{2}$ mile east of Summit. (Date previously set for opening was December 21).

See call for bids under official proposal section in this issue.

EUREKA, Humboldt Co., Calif.—County Surveyor Frank Kelly instructed by county supervisors to make a survey for a road to Shively by way of Elinor.

LUMBER TERMINAL ON HARBOR PROPOSED

Plans for development of one of the largest lumber terminals on the west coast at Islais Creek are announced by the Board of Harbor Commissioners.

The project, which follows steps already taken by the Islais Creek reclamation district, calls for an additional expenditure of more than \$1,000,000 in providing spacious and up-to-date wharves for the loading and discharge of lumber.

That the improvement is badly needed is indicated by the fact that nearly a dozen small and large lumber concerns are now using the south side of Islais Creek channel for their lumber operations.

When the proposed project is complete, the north side of the channel, where fifteen acres are owned by the McCormick Lumber Company, will be available for wharves. This will greatly relieve congestion.

Already the reclamation district has started construction of a sea wall on the north side of the channel. When this is completed the state will build its new piers, according to Chief Engineer Frank G. White.

Lumber men of the city and lumber shippers of the Coast have been vitally interested in the scheme for the last six months and have held several meetings to further the plans.

San Francisco is the port of entry for most of the lumber consumed in California and the Western section of the country, and the local terminal, already well served by railroads, will have even better rail facilities when the reclamation and development project is complete.

Gross earnings of the Southern California Edison Company, Ltd., for the ten months ended October 31st, at the voluntary lower rates effective this year were \$34,444,140.20 as compared with \$33,600,833.80 for the same period of 1929. The announcement was made by R. H. Ballard, president of the company. This was an increase of \$843,306.40 or 3 per cent. Net earnings, after deductions for operating expenses and taxes for the first ten months, were \$23,301,894.02 compared with \$22,655,600.19, an increase of \$646,293.83 or 3 per cent. The amount remaining for dividends and depreciation, after fixed charges, was \$17,428,962.56 in 1930 compared with \$17,119,879.40, bringing the balance for the year to date \$309,083.16 above last year.

Every now and then someone becomes mildly excited about the size of the burnt clay brick or about the fact that brick are laid today pretty much in the same way they were in Abraham's day at Ur. It is a subject very much like the weather, of which Mark Twain once said everybody seemed to be talking but no one was doing anything about it.

The chief cause of concern appears to be the fact that no drastic changes have taken place in either the method of making brick or the laying of them.

But when you come to consider this, without bias, it doesn't stand up as anything for which brickwork should be condemned or even censured. Change isn't absolutely necessary to excellence. And while perfection is difficult to reach, the effort becomes always more trying the nearer you approach it.

The Lord, you know, is growing trees today just as He did in the days of Eden. And while some folks pretend to believe that somewhere about that time man lost his prehensile tail it isn't a matter of record that he has changed much from Father Adam.

Most of this unrest is due to the increasing passion for new models every spring, for which we have to thank those automobile manufacturers who could find no other way to attract the attention of the average man from Henry Ford and his "Tizzle."

Brick manufacturers, generally, would welcome any new type of brick of which they could make and sell more. And any method of bricklaying which would set brick into the wall more speedily and better. They appreciate just as much as any of the critics of their product that could bricks be laid ten times as fast as they are today there would be no competition for the masonry wall, which is the best wall man has yet devised, everything considered.

But the genius hasn't yet appeared who can solve this problem. Machines have been made to do pretty

nearly everything but lay bricks or turn them out in finished form laid up in sections ready to assemble in the wall. All this advancement, which these occasional spokesmen for the public demand, are things for the future consideration of the inventors and—yes, the labor unions, which might, meantime, by abrogation of some of their restrictive and senseless rules, do much to increase the day-output of the mason and prolong the life of the brick industry and the art of bricklaying.

This apparent lack of initiative on the part of the brick industry, is capitalized always by its rivals in the synthetic material field. Yet despite their frequent wild claims of excellence and superior adaptability none of them have furnished a better wall from any viewpoint, while most of them are under suspicion by the experienced and high-grade builder, architect and engineer. None of them live up to their claims. Nor is any one of them cheaper, quality considered.

Nothing could be more fallacious than the idea that burnt clay products are in any sense deficient because they are made today just as they were a thousand years ago, or at least upon the same principles. Methods sometimes change but usually principles are fixed and endure. Innovations aren't always for the best. The sun has spots occasionally, which play hob with weather conditions. If the science sharps are to be believed, but the sun is just as potent today as it was a million years ago—yet it hasn't changed.

And when some Moses appears along to point the way to bigger and better things for the brick industry, that industry may be depended upon to rise up and call him blessed. It isn't asleep nor lacking in interest. It has simply brought its product a little nearer the ultimate in quality than most others.

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The only daily construction newspaper affording complete coverage of the construction activities in Central and Northern California — featuring work contemplated, bids wanted, bids opened, contracts awarded, sub-bids wanted and sub-contracts let on all types of building construction; bridges, dams and harbor works, irrigation projects; machinery and equipment; water works and supplies; business opportunities; building permits; building contracts, mechanics' liens; acceptances, etc., etc.

Keep informed on construction developments in Central and Northern California, and the major projects in Southern California, the states of Oregon, Washington, Nevada and Arizona.

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BUILDING PERMITS

San Francisco County

No.	Owner	Contractor	Am't.
1536	Stendell	Owner	6000
1537	Golden State	Salih	5000
1538	Crocker 1st Nat.	Tassi	10000
1539	McCambridge	Elkington	5000
1540	Merritt	Petersen	10000
1541	Gotto	Amatore	6000
1542	Mynatt	Aetna	4000
1543	Wallace	Owner	1500
1544	Roman	Cahill	10000
1545	Turco	Owner	5500
1546	Lang	Owner	3000
1547	Standard	Owner	8000
1548	Carraro	Owner	3000
1549	Holden	Terry	7000
1550	Anderson	Owner	4000
1551	Gillies	Andersen	3000
1552	Hallgren	Owner	4000
1553	Warner	Dinwiddie	6000
1554	S. F. Club	Lindgren	2000
1555	Meyer	Owner	12000
1556	Armstrong	Owner	1000
1557	Stahmer	Owner	2500
1558	Code	DeVelbiss	1000
1559	Collins	Owner	3000
1560	Ferrari	Owner	16000
1561	Soule	Owner	25000
1562	Nordwell	Mattock	2978

DWELLING

(1536) N MARKET 160 NW of Roman; one-story, basement and sub-basement frame dwelling. Owner—C. Stendell, 41 Cumberland St. Architect—C. F. Strothoff, 2274 15th Street. \$6000

ALTERATIONS

(1537) 644 BROADWAY; alterations to theatre. Owner—Golden Gate Theatre Circuit, Golden State Theatre Bldg. Architect—S. C. Lee, 2404 W 7th St., Los Angeles. Contractor—Salih Bros., Golden State Theatre Bldg. \$5000

ALTERATIONS

(1538) 145 FREMONT ST.; alterations and improvements to warehouse and offices. Owner—Crocker First National Bank. Architect—Not Given. Contractor—J. A. Tassi, 25 California Street. \$10,000

DWELLING

(1539) 16th AVE. 100 S Vicente; 1-story and basement frame dwelling. Owner—L. P. McCambridge. Architect—C. F. Strothoff, 2274 15th Street. Contractor—G. J. Elkington & Sons, 330 Vicente. \$5000

FLATS

(1540) W FILLMORE 89 N Haight; three-story and basement frame (2) flats. Owner—R. Merritt. Plans by Mr. Petersen. Contractor—A. Petersen, 275 S San Bruno Ave. \$10,000

FLATS

(1541) W VERMONT 175 N 24th St.; two-story and basement frame (2) flats. Owner—G. Botto, 1227 Vermont St. Architect—Not Given. Contractor—F. Amatore, 1392A Hampshire St. \$6000

DWELLING

(1542) E 24th AVE. 175 S Moraga; one-story and basement frame dwelling. Owner—F. Myuatt, 166 Miramar Ave. Plans by W. Duerner, 166 Miramar. Contractor—Aetna Const. Co., 166 Miramar Ave. \$4000

ALTERATIONS

(1543) NO. 146 GEARY ST. Alter store. Owner—Robert Wallace, Premises. Plans by S. Kulchar & Co., 731 E-10th St., Oakland. Architect—Not Given. \$1500

SCHOOL

(1544) E NINTH AVE. 200 N Geary St.; one-story and basement class C school building. Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St. Architect—J. J. Foley, 770 5th Ave. Contractor—Cahill Bros., 206 Sansome Street. \$10,000

FLATS & STORE

(1545) S LOMBARD 89 E Divisadero; two-story and basement frame (2) flats and store. Owner—S. Turco, 2481 Lombard St. Architect—Not Given. \$5500

SERVICE STATION

(1546) NE JUNIPERO SERRA AND Alemany Blvd.; one-story class C service station. Owner—Lang Realty Co., 39 Sutter St. Plans by D. S. Adams, 510 Ulloa St. \$3000

SERVICE STATION BLDGS.

(1547) SE POLK and Pacific; two 1-story steel and concrete service station buildings. Owner—Standard Oil Co., 225 Bush St. Architect—Not Given. each \$4000

DWELLING

(1548) N SILLIMAN 90 W Somerset; one-story and basement frame dwelling. Owner—G. Carraro, 750 Felton. Architect—Not Given. \$3000

APTS. & STORES

(1549) N JUDAH ST.; 97 E 29th Ave.; two-story and basement frame (3) apts. and (3) stores. Owner—St. George Holden, 2901 Russ Building. Architect—C. F. Strothoff, 2274 15th Street. Contractor—W. L. Terry, 90 Allston. \$7000

CAPITAL CITY TILE COMPANY

J. C. PALEN

Manager

914 Seventh Street

Sacramento - - - - California

DWELLING

(1550) W 24th AVE. 200 N Ulloa St.; one-story and basement frame dwelling. Owner—N. W. Anderson. Architect—Not Given. \$4000

DWELLING

(1551) SW HOLLY PARK CIRCLE and Park; one-story and basement frame dwelling. Owner—Duncan Gillies, 345 Holly Park Circle. Architect—C. F. Strothoff, 2275 15th Street. Contractor—A. Andersen, 236 Hazelwood Ave. \$3000

DWELLING

(1552) NW 21st AVE. and Lawton; one-story and basement frame dwelling. Owner and Builder—A. Hallgren, 1594 29th Ave. Plans by Owner. \$4000

ALTERATIONS

(1553) 209 GOLDEN GATE AVE.; alterations to film exchange building. Owner—Warner Brothers, 243 Golden Gate Ave. Architect—G. A. Lansburgh, 140 Montgomery St. Contractor—Dinwiddie Const. Co., Crocker Bldg. \$6000

ALTERATIONS

(1554) NW 15th and BRYANT; alterations to grandstand. Owner—S. F. Baseball Club Assn., 15th and Valencia Sts. Engineer—H. J. Brunner. Contractor—Lindgren and Swinerton, Inc., 625 Standard Oil Bldg. \$2000

DWELLINGS

(1555) S TERESITA 41 E Isola; three one-story and basement frame dwellings. Owner and Builders—Meyer Bros., 727 Portola Drive. Plans by D. T. Eurus. each \$4000

ALTERATIONS

(1556) 594 THIRD ST.; alterations to stores. Owner—A. C. Armstrong, 400 Brannan St. Architect—Not Given. \$1000

DWELLING

(1557) NE ELK AND SUSSEX; one-story and basement frame dwelling. Owner—C. H. Stahmer, 400 Sussex St. Architect—E. A. Neumarkel, 340 Kearny Street. \$2500

REPAIRS

(1558) 3315 GEARY ST.; repair fire damage. Owner—E. A. Code, 3315 Geary St. Architect—Not Given. Contractor—C. D. De Velbiss, 369 Pine Street. \$1000

DWELLING

(1559) W CAINE 50 S Lakeview; one-story and basement frame dwelling. Owner—J. E. Collins, 430 Magnolia Ave. Millbrae. Architect—Not Given. \$3000

FLATS
(1504) E PIERCE 80 S Union St.; 2-story and basement frame (two) flats.
Owner—C. J. Ferrari, 1341 Chestnut Street.
Architect—J. A. Porporato, 619 Washington St. 16,000

OFFICE
(1561) NE ARMY and Missouri; 2-story and basement frame office.
Owner—Soule Steel Co., 1750 Army St. Plans by Eng. Dept. of Owner. \$25,000

ALTERATIONS
(1562) 617 BATTERY ST.; alterations to offices.
Owner—O. W. Nordwell Est., 68 Post Street.
Architect—Not Given.
Contractor—A. F. and C. W. Mattock, 212 Clara St. \$2975

BUILDING CONTRACTS

San Francisco County

No.	Owner	Contractor	Amt.
242	Botto	Amatore	6200
242	Gillies	Anderson	3440

FLATS
(1425) W VERMONT 150 N 24th St 125; all work for two-story frame flats.
Owner—Giovanni & Mary Botto, 1227 Vermont St.
Architect—Not Given.
Contractor—Frank Amatore, 1392-A Hampshire St.
Filed Dec. 1, '30. Dated Nov. 28, '30.
Roof on \$1562.50
Brown coated 1562.50
Completed 1562.50
Usual 35 days 1562.50
TOTAL COST, \$6260
Forfeit, \$1 per day. Limit, 120 days.

RESIDENCE
(243) SW HOLLY PARK CIRCLE and Park St. N Park St. 540 W 4th; all work on 1-story and basement frame residence.
Owner—D. and J. Gillies.
Architect—Charles F. Strothoff, 2274 15th St.
Contractor—A. Anderson.
Filed Dec. 3, '30. Dated Dec. 2, '30.
Frame up \$860
Brown coated 860
Completed 860
Usual 35 days 860
TOTAL COST, \$3440
Limit, 90 days. Plans and Spec. filed.

COMPLETION NOTICES

San Francisco County

Recorded Accepted
Nov. 29, 1930—W CRANE 300 S Paul Ave. 25x100. Thos E McDonald to W E Tasmisto.....Nov. 29, 1930
Nov. 29, 1930—W BRENNHAM PLACE 39-6 S Washington. F W and J Dun to D Hayes.....Nov. 29, 1930
Nov. 29, 1930—NO. 12 AND 16 KEY-stone Way. Thos J Sullivan to whom it may concern.....Nov. 29, 1930
Nov. 27, 1930—N MACDONALD 91-8 E Jones E 22-11 x N 60. Genevieve Allen to Castle Bldg Co.....November 14, 1930
Nov. 28, 1930—W 25th AVE 462-6 N Fulton St N 37-0 x W 120. F Anderson to whom it may concern.....November 23, 1930
Nov. 26, 1930—N NINTH ST 150 N Harrison St N 25 x E 120. W C Johnson to Industrial Const Co.....November 25, 1930
Nov. 26, 1930—SE VIENNA ST 200 SW Russia Ave 25x100. J A Tiscornia to whom it may concern.....November 25, 1930

Nov 26, 1930—BOUNDED by Hamilton, Silliman, Somerset and Fulton Sts. San Francisco Playground Commission to Jacks & Irvine.....November 24, 1930
Nov 26, 1930—E PRESIDIO AVE 72-8 1/4 S Pacific Ave S 55 x E 110-11. H H Greenberg to Young & Horst-meyer.....November 17, 1930
Nov 26, 1930—W 29th AVE 406 S Cabrillo St N 24 x W 120. Thos E Mohler to whom it may concern.....November 25, 1930
Nov 26, 1930—S KIRKHAM 90 W 43rd Avenue W 60 x S 100. San Francisco Home Bldg Co to whom it may concern.....November 25, 1930
Nov 26, 1930—SW LEAVENWORTH and Green Sts 65x87-6. Bellare Bldg. Ltd to Consolidated Properties, Ltd.....November 25, 1930
Nov 26, 1930—E 32nd AVE 100 N Hloa. George Goldstein, Carl A Eggers and National Realty Corp to Henry Erickson.....Nov. 24, 1930
Dec 1, 1930—E BRUSSELS 125 N Silliman E 120 x N 25 ptn BLK 15 Univ Hld Assn. M Duon to M Brueck.....November 21, 1930
Dec 1, 1930—LOTS 4 and 15 BLK 2659 map Sub No 4, Miraloma Pk. Meyer Bros to whom it may concern.....November 24, 1930
Dec 1, 1930—S MARINA BLVD 137-6 and 162-6 W Broderick. Carl and Lillie Risdon to whom it may concern.....December 1, 1930
Dec 1, 1930—W SCOTT ST bet Post and Sutter. Mount Zion Hospital Assn to Barrett & Hilt.....November 25, 1930
Dec 1, 1930—SW WILDER ST 335-779 ft SE Diamond ST SE 25 x SW 100. J J and J Hurley to Thos Hamill, Inc.....Nov 26, 1930
Dec 1, 1930—25 OLIVER ST. L Rupert to Wm T Hummer.....Dec 1, 1930
Dec 2, 1930—SE ASHTON AVENUE and Holloway Ave S 25 x E 87-6 Blk 27, Map Lakeview. Joseph A Pasqualetti to whom it may concern.....November 8, 1930
Dec 2, 1930—E PLYMOUTH AVE 125 N Holloway St 25x112-6 G Svenson to whom it may concern.....December 2, 1930
Dec 2, 1930—E PRESIDIO AVE 72-8 1/4 S Pacific Ave S 55 x E 110-11. H H Greenberg to Galvin Bros.....December 1, 1930
Dec 2, 1930—S PALOU 75 E New-hall Blk 330 Case Tract. Morris Rosen to whom it may concern.....December 2, 1930
Dec 2, 1930—LOT 50 BLK 6729, No 62 Surrey St. Herman and Evelyn A Kragg to H F Strumme.....November 25, 1930

LIENS FILED

San Francisco County

Nov 24, 1930—E NINTH AVE 125 N Noriega N 25 x E 120. D N & E Walter & Co vs H S Klingspor.....\$38

RELEASE OF LIENS

San Francisco County

Recorded Amount
Nov 26, 1930—NW ANZA and 22nd Ave N 100 x W 57-6. E Sugarman to I M and Fanny R Sommer.....

BUILDING PERMITS

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
1456	Gledert	Owner	4230
1457	Associated	Owner	1500
1458	Trimlett	Owner	2500
1459	Robbins	Cone	1800
1460	Smith	Owner	4740
1461	Houdlette	Marshall	30000
1462	Bruer	Kolmodin	3750
1463	California	Larmer	5000

1464	Henry	Sullivan	1200
1465	Lantry	Owner	2500
1466	Hank Italy	Saith	4000
1467	Cochran	Electric	3500
1468	Jorgensen	Cbero	2400
1469	Itoxic	Electrical	1900
1470	Calif Conference	Owner	6000
1471	Fleming	Owner	4050

STORE
(1450) NO. 1607 SAN PABLO AVE., BERKELEY. One-room Class C Store.
Owner—D. Geldert, 2212 21st Ave., Oakland.
Architect—Not Given

SERVICE STATION
(1457) SW COR E 14th STREET and Miller Ave. OAKLAND; one-story steel service station.
Owner and Builder—Associated Oil Co., 79 New Montgomery St., San Francisco.
Architect—Not Given. \$1500

DWELLING
(1458) 2215 50th AVE., OAKLAND; one-story 5-room dwelling.
Owner and Builder—Robert Trimlett, 430 Fleming Ave., Oakland.
Architect—Not Given. \$2500

ALTERATIONS
(1459) NO. 3636 E-FOURTEENTH ST., OAKLAND. Alterations.
Owner—M. H. Robbins, 1744 Broadway, Oakland.
Architect—Not Given.
Contractor—W. C. Cone, 1744 Broadway, Oakland. \$1800

STORE
(1460) SE NEWTON AND WESLEY Aves., OAKLAND. One-story store.
Owner—H Smith, 2212 21st Ave., Oakland.
Architect—Not Given. \$4740

RESIDENCE
(1461) NO. 335 BELLEVUE AVE., PIEDMONT. Two-story 17-room frame residence and garage.
Owner—Ernest S. Houdlette, 4 Pala Ave., Piedmont.
Architect—C. A. Tantau, 210 Post St., San Francisco.
Contractor—F. S. Marshall, 495 Ash-bury St. San Francisco. \$30,000

DWELLING & STORE
(1462) 6209 TREXOR Street, OAK-LAND; two-story 4-room dwelling and store.
Owner—G. Eruer, 5619 Manila Ave., Oakland.
Architect—Not Given.
Contractor—H. Kolomodin, 2610 62nd Ave., Oakland. \$3750

ALTERATIONS
(1463) 1801 FRANKLIN Street, OAK-LAND; alterations.
Owner—California Mutual Bldg and Loan Assn.
Architect—Blaine and Olson, Smith Bldg., Oakland.
Contractor—Edw. Larmer & Son. \$5000

CLEANING WORKS
(1464) NE 14th St. No. 4710, OAK-LAND; one-story two-room brick dyeing and cleaning works.
Owner—Mary A. Henry, 4810 E 14th St., Oakland.
Architect—Not Given.
Contractor—Sullivan & Sullivan, 2653 Best Ave., Oakland. \$1200

RESIDENCE
(1465) NO. 2757 DOHR ST., BER-KELEY. One-story 6-room one-family frame residence.
Owner—J. R. Lantry, 739 Allen St., Oakland.
Architect—Not Given. \$3500

ALTERATIONS

(1466) SE COR. 14th and Broadway,
OAKLAND; alterations.
Owner—Bank of Italy.
Architect—Not Given.
Contractor—Fred M. Sallih, 25 Taylor
St., San Francisco. \$4000

SIGNS

(1467) SE COR. 12th and HARRISON
Sts., OAKLAND; 2 electric signs.
Owner—Cochran & Celli.
Architect—Not Given.
Contractor—Electrical Products Corp.,
950 30th St. \$3500

STUDIO

(1468) W GILBERT ST., 200 North
Ridgeway Ave., OAKLAND; one-
story studio.
Owner—Mrs. S. Jorgensen, 4212 Ter-
race St.
Architect—Not Given.
Contractor—Clisero & Mally, 472 42nd
Street. \$2400

SIGN

(1469) S 17th St. 100 W Telegraph
Ave., OAKLAND; electric sign.
Owner—Roxie Theatre.
Architect—Not Given.
Contractor—Electrical Products Corp.,
950 30th St. \$1900

CHURCH

(1470) NO. 1521 DERBY ST. BER-
KELEY. One-story 5-room frame
church.
Owner—Calif. Annual Conference of
the Free Methodist Church, Ber-
keley.
Architect—C. W. Slack, 2412 Acton
St., Berkeley. \$6000

DWELLING

(1471) E JORDAN ROAD 400 S Red-
wood Road, OAKLAND; one-story
6-room dwelling and 1-story gar-
rage.
Owner and Builder—Andrew Fleming,
3906 Vale Ave. Oakland. \$4050
Architect—Not Given.

BUILDING CONTRACTS

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
143	Roman	Makin	3795

RESIDENCE

(143) NW COR. EXCELSIOR AVE.
and Emerson St., Oakland; two-
story and basement frame resi-
dence and garage.
Owner—Roman Catholic Archbishop of
San Francisco, 1100 Franklin St.,
San Francisco.
Architect—Wm. E. Schirmer, 700 21st
St., Oakland.
Contractor—Wm. Makin, 1048 Excel-
sior Ave., Oakland.
Filed Dec. 1, '30. Dated Nov. 6, '30.
When brown coated \$142.12
Finish coat of plaster on 1423.13
Usual 35 days 948.75
TOTAL COST, \$3795.00
Bond, \$3795. Sureties, Aetna Casualty
& Surety Co. Limit, 70 working days.
Plans and Spec. filed.

COMPLETION NOTICES

Alameda County

Recorded	Accepted
Nov 28, 1930—1010 TRESTLE Glen Road, Oakland. Frank R. and Nell Fish McGovern to W A Netherby.	
Nov 28, 1930—November 18, 1930	
Nov 28, 1930—LOTS 20 and 23 BLK G. Estudillo Estates, San Leand- ro. Charles W. and Ada J. Grif- fith to whom it may concern (2 completions).....	November 26, 1930
Nov 28, 1930—LOTS 6, 7 and 8 BLK D, Alameda Station Homestead Tract, Alameda. Frank Dietz vs	

Conrad Roth.....	November 25, 1930
Nov 28, 1930—LOT 80, Broadmoor Park, San Leandro. O Trumel and P P Weaver to P B Weaver.....	
.....	November 21, 1930
Nov 26, 1930—PTN LOT 3 BLK F, map of the Town of Pleasanton. Mary E Stovall to Sullivan and Sullivan.....	November 26, 1930
Nov 26, 1930—4255 MONTEREY Blvd, Oakland. W H Warren to whom it may concern.....	Nov 25, 1930
Nov 26, 1930—PTN LOTS 5 and 6 Blk 73, map of the Southern Addn of Livermore. Geo F Tubbs to whom it may concern.....	Nov 15, 1930
Dec 2 1930—55 POPPY LANE, Berke- eley. Frank H Felt to Self.....	December 1, 1930
Dec 2, 1930—S LINE OF LINCOLN Ave (fmlly Railroad Ave) 425 ft W 8th St (only Prospect St), Al- ameda. Thomas C Plim and C B Knolly.....	November 29, 1930
Dec 2, 1930—2608 BUENA VISTA Ave, Alameda. L L and Violet Kieny to P R Haulman.....	November 28, 1930
Dec 1, 1930—LOTS 39 and 40, East 14th St Tract, Eden Twp. Zella Glen Weddle to H N Weddle.....	December 1, 1930
Dec 1, 1930—LOT 15 BLK 4, Berke- eley Square, Berkeley. Arthur E and Jessie J Longmate to J Harry Smith.....	December 1, 1930
Nov. 28, 1930—LOTS 23 AND 24 Lay- mance Tract, Oakland. R C Mc- Bride Jr to R C McBride Jr.....	Nov. 28, 1930
Nov. 29, 1930—NO. 671 SIXTY- second St., Oakland. Rhoda K Arnold to J H Linfoot. Nov. 28, 1930	
Nov. 29, 1930—NE TAYLOR AVE and Caroline St., Alameda. Aileen Marie Roberts fmlly Aileen Marie Hrubanik to whom it may concern.....	Nov. 30, 1930

LIENS FILED

Alameda County

Recorded	Amount
Nov. 29, 1930—INTERSECTION OF Dublin to Livermore Highway and San Ramon to Danville Highway. Pleasanton Twp. Nils M Quist; Chas N Quist, Katherine L Quist, Earl E Johnson (as Independent Lumber Co) vs Charles M Dough- erty, Ida T Dougherty and L A Couch \$1126.96	
Nov 28, 1930—W JACKSON ST 160 feet N of 14th Street, Oakland. Thomas J Keenan Jr vs Henry G and Ida E Hill.....	\$937.70
Nov 28, 1930—W JACKSON ST 160 feet N of 14th Street, Oakland. Harvey A Smith and J G Bar- stow vs Henry G Hill, Thomas J Keenan Jr, Charles S Mabray.....	\$499
Nov 28, 1930—N BEGIER AVE about 110-23 ft SW of Woodland Ave, San Leandro. Kerr & Clifford vs Henry F and Eleanor O Bruner, Joseph Franklin.....	\$69
Nov 28, 1930—113 SANTA CLARA Ave, Alameda. Eureka Mill and Lumber Co vs Hazel B Hunter, D F Murphy \$289.86	
Nov 26, 1930—3304 CHESTNUT ST, Oakland. Bay City Asbestos Co, Inc vs Robert J Brown.....	\$130
Nov 26, 1930—LOTS 9 and 10 BLK 730, Thornhill Park, Eugene Do- lan as Dolan Bros Wrecking Co vs Anna R Pellaton.....	\$243.29

RELEASE OF LIENS

Alameda County

Recorded	Amount
Dec 1, 1930—SW COR DURANT AVE and Fulton St, Berkeley. H W Bolin to Frederick H Reimers, Frances F Goss, Delphine F Doyle Elizabeth F Ross, Howard Auto- mobile Company \$190	

Nov 26, 1930—LOT 7 and ptn lot 9
blk 1, Daley's Scenic Park, Berk-
eley. T P Hogan Co to Albert
Hammarberg \$240.25

OAKLAND BUILDING SUMMARY

A. S. Holmes, city building inspec-
tor of Oakland, reports the issuance
of 244 permits during the month of
November, 1930, for improvements
valued at \$366,616. Following is a
segregated listing of the November
activities:

Class of Buildings	No. Permits	Cost
1-story dwellings	16	\$47,465
1-story dwell. & store.	1	4,300
1 1/2-story dwellings	2	8,000
2-story dwellings	7	50,500
2-story dwell. & store.	1	3,985
1-story store	2	5,040
1-story comfort station	1	500
1-story church	1	22,000
1-story tile service sta.	1	1,200
Tile addition	1	900
1-story brick shed	1	5,800
1-story brick ser. sta.	3	5,500
1-story brick school	1	10,000
2-story brick school	1	24,000
1-story steel ser. sta.	5	5,950
1-story steel com. sta.	2	490
1-story steel foundry and machine shop.	1	10,000
1-story steel ser. bldg.	1	750
Steel canopy	1	460
1-story conc. factory	1	16,000
Concrete addition	1	22,100
Loading platform	1	1,350
Billboards	2	275
Electric signs	30	14,440
Roof sign	3	1,800
Marquee sign	1	5,000
1-story gar. & sheds	50	9,950
Additions	35	17,774
Alters. & repairs	71	71,227
Total	244	\$366,616

BUILDING CONTRACTS

SAN MATEO COUNTY

RESIDENCE

2.581 ACRES LAND, Hillsborough, All
work for two-story frame and
stucco residence.
Owner—Albert J. Watson et al, Hills-
borough
Architect—Ed. Musson Sharp, 525
Market St., San Francisco.
Contractor—Oscar L. Cavanagh, 432
Occidental St., San Mateo.
Filed Nov. 29, '30. Dated Nov. 28, '30.
As work progresses 75%
Usual 35 days 25%
TOTAL COST, \$42,500 guaranteed
Bond, \$42,500. Surety, United States
Guarantee Co. Limit, May 31, 1930.
Forfeit, none. Plans and specifications
filed.

BUILDING PERMITS

SAN MATEO

RESIDENCE, \$10,000; Lot 4 Blk 2,
Virginia St., Baywood; owner and
contractor, W. W. Casey, 307 B
St., San Mateo.
RESIDENCE, \$2360; Lot 7, No. 1236
Shafter St., San Mateo; owner and
contractor, Geo. W. Witbeck, 2345
14th Ave., San Francisco.
DWELLING, 6-room, \$4000; Lot 5
Blk 5, Palm Ave. San Mateo;
owner, C. W. Parsons, 229 2nd
Ave., San Mateo; contractor, P.
D. Johnson, 854 Jefferson Ct., San
Mateo.

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded	Accepted
Nov. 26, 1930—PART LOT 7 BLK 21 East San Mateo. Ashley S Powers	

to whom it may concern.....Nov. 26, 1930
Nov. 26, 1930—LOT 15 BLK 1, Lot 6
Blk 2; Lot 24 Blk 1, Jefferson Park
Castle Building Co to Henry Horn
.....Nov. 20, 1930
Nov. 28, 1930—LOT 8 BLK 7, Park-
way Terrace, South San Francisco
South San Francisco Land & Im-

LIENS FILED

SAN MATEO COUNTY

Recorded Amount
Nov. 28, 1930—PART LOT 20, San
Mateo Park, David J Millar vs
Thomas A Cavanagh et al.....\$782
Nov. 28, 1930—LOT 2 BLK 19, Lo-
mita Park, Malott & Peterson vs
E M Wolfe\$77
Nov. 29, 1930—LOT 2 BLK 15, Bay-
view Heights, Emil Jokl et al vs
Martin Peterson et al\$654.50
Nov. 29, 1930—LOTS 14 AND 15 BLK
2, Bay View Heights, C R Swans-
on et al vs Martin Peterson.....\$750.50
Nov. 29, 1930—LOTS 14 AND 15 BLK
2, Bay View Heights, Victor L
Dapper vs Martin Peterson.....\$1450
Nov. 29, 1930—PART LOT A BLK 10
Edgewood Park, San Mateo, Emil
Jokl et al vs Martin Peterson.....\$508
Dec. 1, 1930—PART LOTS 38 AND
40 and Part Lot A Blk 10, Welles-
ley Park, San Mateo, Harry
Memory et al vs Martin Peter-
son\$418

RELEASE OF LIENS

SAN MATEO COUNTY

Recorded Amount
Nov. 26, 1930—LOCATION NOT
Given, San Mateo Feed & Fuel
Co to Philip J Webster et al.....
Nov. 28, 1930—LOCATION NOT
Given, The Fink Corporation to
whom it may concern.....
Nov. 28, 1930—LOCATION NOT
Given, San Mateo Planing Mill
Co to E D Soward et al.....

CESSATION OF LABOR

SAN MATEO COUNTY

Nov. 22, 1930—LOT 10 BLK 16, Lo-
al to whom it may concern. Work
ceased October 7, 1930,
mita Park, Alexander R Tunzi et

BUILDING PERMITS

PALO ALTO

RESIDENCE, stucco, \$9000; No. 1475
Hamilton Ave, Palo Alto; owner,
W. H. and C. Gibson, Woodland
Ave., East Palo Alto.
RESIDENCE and garage, rustic, \$6000
No. 655 Embarcadero Road, Palo
Alto; owner, Julia W. Van Vleck;
architect, Guy Koepp; contractor,
Ernest W. Aldrich.

BUILDING PERMITS

SAN JOSE

RESIDENCE, frame, 6-room, \$3500;
No. 130 S-21st St., San Jose; own-
er, Louis C. Max, Fremont.
ALTER CLASS C business building,
\$1800; No. 315 S-First St., San
Jose; owner, H. Laubsburg, 315
S-First St., San Jose; contractor,
H. A. Bridges, 1398 Lincoln St.,
San Jose.
RESIDENCE, 6-room frame, \$3175;
No. 1550 Whittson St., San Jose;
owner, J. W. Sullivan, Security
Bank Bldg., San Jose; architect
and contractor, Ed. Delmaestro,
460 W-Julian St., San Jose.
RESIDENCE, 5-room, frame, \$3000;
Waco St. near Newhall, San Jose;
owner and contractor, E. F. Hall,
819 Myrtle St., San Jose.

COMPLETION NOTICES

SANTA CLARA COUNTY

Recorded Accepted
Nov. 14, 1930—GILROY HIGH
School District, Gilroy High
School District to whom it may
concern (bus garage) Nov. 6, 1930
Nov. 14, 1930—1.03 ACRE PT LOT
23, Observatory Tract, San Jose,
Gibson Wheeler Co, Inc, to whom
it may concern.....Nov. 14, 1930
Nov. 15, 1930—COM. COR. LOTS 1
and 10 BLK 116 on NE E Crescent
Drive NW 10.247 NE 179.47 SE
91.62 SW 175 to heg Pt Lot 10 Blk
116, Crescent Park Subd., San
Jose, Helen T Field to whom it
may concern.....Nov. 11, 1930
Nov. 15, 1930—LOT 20 BLK 7, Los
Altos Park, Virginia M Spinks to
whom it may concern.....Nov. 13, 1930
Nov. 17, 1930—LOT 14 BLK 2, Palm
Haven N H English et al to
whom it may concern.....Nov. 14, 1930
Nov. 17, 1930—LIVE OAK HIGH
School Dist. of Morgan Hill, Live
Oak High School District of Morgan
Hill to whom it may concern
(additions to high school).....
.....Nov. 17, 1930
Nov. 17, 1930—LOT 4 BLK 6, North
Glen Residential Park, San Jose,
Laverne W Briscoe to whom it
may concern.....Nov. 17, 1930
Nov. 18, 1930—SE DAVIS 80 ft, S W
Chapman St., San Jose, T. L.
Hubbard to whom it may concern
.....Nov. 17, 1930
Nov. 19, 1930—LOT 30 BLK 2, Lin-
coln Gates, Clyde Alexander to
whom it may concern.....Nov. 18, 1930
Nov. 20, 1930—PART LOTS 6 AND 7
Fleming Subd., San Jose, Maude
Paul to whom it may concern.....
.....Nov. 20, 1930
Nov. 20, 1930—LOT 15 BLK 64, Re-
subd of Seale Addition No. 2,
Palo Alto, Frances E Dowdy to
whom it may concern.....Nov. 18, 1930
Nov. 21, 1930—LOT 38, Ridgeview,
Ray S Thomas et al to whom it
may concern.....Nov. 21, 1930
Nov. 21, 1930—LOT 38, Santana Subd

San Jose, Ira Brotzman to whom
it may concern.....Nov. 21, 1930
Nov. 21, 1930—LOT C, Knapp Tract,
San Jose, Shihya Co, Ltd to
whom it may concern.....Nov. 1, 1930
Nov. 21, 1930—LOT 3, Azule Subd.,
San Jose, Harry H Bogart et al
to whom it may concern.....
.....Nov. 15, 1930
Nov. 21, 1930—LOT 15 BLK 11,
Twins Survey No. 2, San Jose
Joseph Marino et al to whom it
may concern.....Nov. 18, 1930
Nov. 22, 1930—LOT 5 BLK K,
Southgate, Palo Alto, George J
and Ida C Miller to whom it may
concern.....Nov. 21, 1930
Nov. 25, 1930—ON 14 ACRES ON SE
Berryessa Road, San Jose, Con-
tinental Packing Co to whom it
may concern.....Nov. 24, 1930
Nov. 25, 1930—LOT 15 BLK 4, Mar-
telctus, George S Koehler to whom
it may concern.....Nov. 20, 1930
Nov. 25, 1930—OAKLAND HIGH-
way, Milpitas Milpitas School
District to whom it may concern
.....Nov. 22, 1930
Nov. 25, 1930—SW STOCKTON AVE
69.04 ft NW Lenzen Ave., San
Jose, P P Dorsett to whom it may
concern.....Nov. 21, 1930
Nov. 25, 1930—E VENDOME ST, 100
S Seymour St., San Jose, Giuseppe
Capurso to whom it may concern
.....Nov. 22, 1930
Nov. 26, 1930—W MONTEREY ST,
bet. 5th & 6th Sts, Gilroy, Angelo
Mainero et al to whom it may
concern.....Nov. 22, 1930
Nov. 26, 1930—LOT 6 BLK 1, Rest-
wood Park No. 2 Ormal W Dodd
et al to whom it may concern.....
.....Nov. 28, 1930
Nov. 28, 1930—SUNNYVALE
School, Sunnyvale School Dis-
trict to whom it may concern (ad-
ditions).....Nov. 24, 1930
Nov. 28, 1930—LOT 4, Taaffe Partit-
tion, San Jose, Francis V Block
to whom it may concern Nov. 26, '30
Nov. 29, 1930—LOT 1 BLK 116, Ches-
cent Park, Palo Alto, also com. cor
from Lots 7 and 8 and E East St,
SE 25.09 ft, NE 179.7 ft, NW 25
SW 200 ft, to heg Pt Lot 8 Blk
116, Palo Alto, Muriel H McCants
to whom it may concern.....
.....Nov. 29, 1930
Nov. 29, 1930—LOTS 46 AND 47 BLK
100, Palo Alto, Andrew Aro to
whom it may concern Nov. 26, 1930
Nov. 29, 1930—LOT 34, Colonial
Manor, San Jose, William H
O'Neil to whom it may concern
.....Nov. 11, 1930

LIENS FILED

SANTA CLARA COUNTY

Recorded Amount
Nov. 14, 1930—NE SAN CARLOS
and Third Sts, San Jose, Henry
Cowell Lime & Cement Co vs Ber-
niece R Harmeling\$5.64
Nov. 14, 1930—W FIFTH ST. 31 1/2
SE St. James St., San Jose, Henry
Cowell Lime & Cement Co vs E R
Cook et al.....\$13.20
Nov. 17, 1930—LOT 5, Mayflower
Park, San Jose, Henry Cowell
Lime & Cement Co vs A Azevedo
.....\$20.86
Nov. 17, 1930—LOTS 4 AND 5 BLK
4, Lendrum Tract, San Jose,
Henry Cowell Lime & Cement Co
vs J V and M S Rose\$140.25
Nov. 17, 1930—S FLORENCE 489.21
SW White Road, San Jose, Henry
Cowell Lime & Cement Co vs J C
Goold\$18.10
Nov. 17, 1930—LOT 1 BLK B, Subd
of John Rock Home Place, Henry
Cowell Lime & Cement Co vs
Annie B Victor\$142.23

Member Insurance Brokers' Exchange

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INSURANCE
490 GEARY STREET

Phone FRanklin 9400

San Francisco

Nov. 18, 1930—S BRACE AVE 252.91
SE from NE Cor. Lands of East-
wood. Henry Cowell Lime & Ce-
ment Co vs A Silveira.....\$60.46

Nov. 18, 1930—E OLD MARKET ST
142 N Julian St., San Jose. Henry
Cowell Lime & Cement Co vs J J
Clark.....\$31.77

Nov. 18, 1930—LOT 5 AND NE 1/4
Lot 4 Blk 5, East San Jose Home-
stead Assn. Henry Cowell Lime &
Cement Co vs Nellie Barnes.....\$32.40

Nov. 18, 1930—LOTS 4 AND 5 BLK
4, Lendrum Tract, San Jose.
Gladding Bros Mfg Co vs J V and
M S Rose.....\$39.70

Nov. 19, 1930—LOT 16 BLK 62,
Seale Tract, Palo Alto. H C
Schlosser vs Robert Neil.....\$142.50

Nov. 20, 1930—LOT 16 BLK 62, Seale
Addition No. 2, Palo Alto. Palo
Alto Lumber Co vs Robert Neil.....\$142.55

Nov. 20, 1930—W FOURTH 173 N
Santa Clara, San Jose. Borchers
Bros vs Joseph Newman et al.....\$143.70

Nov. 20, 1930—6.56 AC ON NE Um-
barger and Monterey Roads, San
Jose. Henry Cowell Lime & Ce-
ment Co vs David Holt et al.....\$132.29

Nov. 20, 1930—SUBDS 3 AND 4
Blk 11, Palo Alto. Merner Lum-
ber Co vs Jew Ngum You.....\$189.70

Nov. 20, 1930—LOTS 15 AND 16
Blk 30, College Terrace, Palo Alto.
Merner Lumber Co vs Elizabeth
Brown.....\$1076.57

Nov. 21, 1930—LOT 16 BLK 62, Seale
Addition No. 2, Palo Alto. San
Mateo Feed & Fuel Co vs Robert
Weil.....\$218.20

Nov. 22, 1930—1.89 AC PT SEC 12
Tsp 8 S R 2 West. S. H. Chase
Lumber Co vs Cathryn Burns.....\$609.54

Nov. 24, 1930—1.89 ACRES PART
Section 12 Tsp 8 S R 2 West.
Sterling Lumber Co vs W A Burns
et al.....\$349.10

Nov. 24, 1930—1 ACRE PT LOTS 17
and 24, L. S. Clarke Subdivision,
San Jose. Merner Lumber Co.
\$365.15; and \$38.36 vs Lewis Bohlin
et al (2 liens).....\$403.51

Nov. 24, 1930—LOT 16 BLK 62, Seale
Addition No. 2, Palo Alto. Leroy
Samuelson vs Robert Neil.....\$210.75

Nov. 24, 1930—LOT 16 BLK 62, Seale
Addition No. 2, Palo Alto. Wm
and J C Urban vs Robert and
Lottie M Neil.....\$92.50

Nov. 25, 1930—LOT 37, Barron Park,
San Jose. C B Van Epps vs
Helen Williams.....\$919.90

RELEASE OF LIENS

SANTA CLARA COUNTY

Recorded	Amount
Nov. 18, 1930—NE STOCKTON AVE 140 NW Alameda, San Jose. Mc- Elroy Cheim Lumber Co to S M Halstead et al.....\$140.05	
Nov. 21, 1930—E FIRST 225.64 S St. John St., San Jose. A G Schutte to G B Leucuto et al.....\$68.79	
Nov. 22, 1930—LOTS 1 AND 2 BLK 31, College Terrace, Palo Alto. Frank A Gruenert to Frederick F Balliet.....\$142.50	
Nov. 24, 1930—NO. 786 PARK AVE., San Jose. Henry Cowell Lime & Cement Co to Nicholas Klein.....\$142.50	
Nov. 25, 1930—LOT 5 BLK 28, Naglee Park Tract No. 1, San Jose. Henry Cowell Lime & Cement Co to Geo W Alexander.....\$142.50	

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded	Accepted
Nov. 25, 1930—LOT 1 BLK 4, Greene Subdivision of Ptn of Wills Addi- tion to Antioch. Nathan C Dudley to whom it may concern.....Nov. 19, 1930	
Nov. 26, 1930—IN RANCHO LOS Meganos near Brentwood. Coast Natural Gas Co to Huihan & Chestnut.....Nov. 14, 1930	
Nov. 26, 1930—PTN LOT 99, San Pablo Rancho containing 1,902 acres with exceptions. Edward B and Helen Coppinger to Carter H Johnston.....Nov. 25, 1930	

LIENS FILED

CONTRA COSTA COUNTY

Recorded	Amount
Nov. 29, 1930—PTN LOT 14 BLK A, No. 1 Ptn Parkside Addn and Racetrack Sub. Diamond Match Co vs H E Carlson and C F Adams .....\$342.50	
Nov. 29, 1930—PTN LOT 14 BLK A, No. 1, Parkside Addn and Race- track Sub. also known as Lot 19, Adams Subdivision. W H George and D J Baldwin (as Concord Mercantile Co) vs C F and Lillian Adams.....\$178.88	
Dec. 1, 1930—LOTS 4 AND 5 BLK 152, Castro St. Extension Tract. Martinez Sheet Metal Works vs Valine & Lawrence.....\$33.55	
Nov. 26, 1930—LOTS 1, 2, 3 and 4 Blk E, Town of Brentwood. Roy T Stahl vs Joseph Dutra and J P Loux.....\$73.50	
Nov. 25, 1930—LOT 10 in Grammar Addition to Concord Diamond Match Co vs Andrew R Brazil.....\$406	
Nov. 25, 1930—LOT 10 BLK 5, Greene Subd. of Portion of Wills Addition to Antioch. Antioch Lumber Co vs A Erickson.....\$1106.19	
Nov. 28, 1930—LOT 5 BLK B, Town of Crockett. O Axdal vs A W Geren and Joseph Metcalf.....\$110	

RELEASE OF LIENS

CONTRA COSTA COUNTY

Recorded	Amount
Nov. 29, 1930—LOTS 96, 97 AND 98 No. 2, Walnut Lands, Concord. The Diamond Match Co to D B Strick- ling, Lawrence Strickling and Margaret Strickling.....\$1106.19	
Nov. 29, 1930—LOT 8 BLK 17, No. 3, Portion of Parkside Addn and Racetrack Sub. The Diamond Match Co to Hugh and Agnes Savage.....\$1106.19	
provement Co to whom it may concern.....Nov. 24, 1930	
Dec. 1, 1930—LOT 12 and Part Lot 13 Blk 5, San Bruno. C D Schu- bert to Wm Laikam Jr.....Nov. 21, 1930	
Dec. 1, 1930—LOT 12 BLK 1, Jer- ferson Park, San Mateo. Castle Eldg Co to Henry Horn.....Nov. 26, 1930	
Dec. 1, 1930—LOTS 1 AND 2 BLK 20, Huntington Park, San Mateo. Charles Chiappa to whom it may concern.....Nov. 28, 1930	

COMPLETION NOTICES

MARIN COUNTY

Recorded	Accepted
Nov. 21, 1930—MARIN HEIGHTS near Sausalito. Watson C Foster to R H Hood.....Nov. 20, 1930	
Nov. 21, 1930—SAN RAFAEL. Tis-	

sot & Clar to whom it may con- cern.....Nov. 21, 1930	
Nov. 21, 1930—SAUSALITO. P F Frund to whom it may concern.....Nov. 21, 1930	
Nov. 22, 1930—SAN RAFAEL. John P De Cima to Peter Cletus.....Nov. 18, 1930	
Nov. 24, 1930—SAN ANSELMO. Fred Fischer and wife to Chas A Service.....Nov. 24, 1930	
Nov. 25, 1930—SAN RAFAEL. Flor- ence M Rodgers to Thos Tinkler.....Nov. 18, 1930	
Nov. 26, 1930—MILL VALLEY. A Sandstrom to whom it may con- cern.....Nov. 24, 1930	

BUILDING PERMITS

STOCKTON

RESIDENCE and garage, \$7000; No.
1102 N-Orange St., Stockton;
owner, R. L. Quisenberry, 135 E-
Magnolia St., Stockton.

COMPLETION NOTICES

MONTEREY COUNTY

Recorded	Accepted
Nov. 25, 1930—LOT 9 BLK 5, Map of Monte Regio No. 1, Monterey. Monterey Co. Title & Abstract Co to whom it may concern.....Nov. 24, 1930	
Nov. 25, 1930—LOT 5, Peers Place, Monterey. Millard L Caldwell to Bruce E Baird.....Nov. 17, 1930	
Nov. 25, 1930—S KATHLENE AVE NW Cor Lot 5 Map entitled Peers Place, Monterey. Angus L and Vera Vitelle to whom it may con- cern.....Nov. 15, 1930	
Nov. 25, 1930—LOT 12 BLK 16, Map of P. S. Spring's Addition to Salinas City. E Mae Belle Chase Holaday to J Frank Laughton.....Nov. 25, 1930	
Nov. 26, 1930—LOT 12 BLK 2, Map of Villa Del Monte. Frank Natoli to whom it may concern.....November 25, 1930	
Nov. 28, 1930—LOT 11 BLK 5, Map Showing Villa Subd of Lot 4 of Rancho Noche Buena, 2 acres of land. Ada McAvoy to Stanley J Clark.....Nov. 25, 1930	
Nov. 28, 1930—LOT 20 BLK 14 1/2 Map of Homestead Addition to Salinas City. Elizabeth Radel- finger to whom it may concern.....Nov. 25, 1930	

LIENS FILED

MONTEREY COUNTY

Recorded	Amount
Nov. 28, 1930—LOT 3 BLK 119 Block Book of City of Monterey. Tynan Lumber Co vs Harold J McLean .....\$131.40	
Nov. 28, 1930—LOTS 21 AND 22 BLK 1 Plat of Boulevard Tract being subdivision of Blk 14 Map 1, Hot Springs Tract, Monterey. Tynan Lumber Co vs W D White.....\$334.42	

COMPLETION NOTICES

SAN JOAQUIN COUNTY

Recorded	Accepted
Nov. 28, 1930—LOTS 3 AND 4 Ptn Lot 11 Blk 32, Victory Park Ter- race, Stockton. L R Shaw to W J Scott.....Nov. 24, 1930	
Nov. 29, 1930—LOT 6 BLK 1, Yo- semitte Terrace, Stockton. Ella K Jackson to J F Shepherd.....Nov. 26, 1930	

LIENS FILED**SAN JOAQUIN COUNTY**

Recorded Amount
Nov. 28, 1930—N 25 FT. LOT 2, N 23 ft. W 1/2 Lot 4 and S 40 ft. W 23 ft. Lot 14 Blk 5, East of Center St.; E 21 ft. S 75 ft. Lot 2 and W 1/2 S 75 ft. Lot 4 Blk 5, E of Center St., Stockton. Schrader Iron Works, Inc vs S H Kress & Co.; J S Metzger & Son; Eva Brooks; Florence Brooks & George L Bishop \$4504.73

COMPLETION NOTICES**SONOMA COUNTY**

Recorded Accepted
Nov. 28, 1930—NO. 521 BARNETT St., Santa Rosa. R D Maxwell to whom it may concern.....Nov. 28, 1930

LIENS FILED**SONOMA COUNTY**

Recorded Amount
Nov. 25, 1930—HIGHLAND ROAD in Sec. 27-T 7 North R 10 N. Arthur C Davis vs Prentice Childers and Cora Prentice.....\$208.12
Nov. 26, 1930—LOT 401 & Part Lots 402 and 403 Blk 12, City of Santa Rosa. Santa Rosa Bldg Materials Co vs J F Kinslow; Mary C Barnett; Amelia B Burnett; A P Sweeney; C B Eames; L A Heckman; Junior Golf Paradise.....\$204.40
Nov. 26, 1930—LOT 401 and Part Lots 402 and 403 Blk 13, City of Santa Rosa. Dixon Hardware & Implement Co vs J F Kinslow; Mary C Barnett; Amelia B Burnett; A P Sweeney; C B Eames; L A Heckman and Junior Golf Paradise.....\$147.63

RELEASE OF LIENS**SONOMA COUNTY**

Recorded Amount
Nov. 26, 1930—LOTS 2, 3, 4, 5 AND 6 Blk C, McBeth. Turner & Weech's Addition to Santa Rosa. L E Johnson, \$52.93+\$6; Edward F Holtz et al \$261; Pacific Lumber Corp, \$348.66 to Frank Scaler and Agnes L McCarthy.....

BUILDING PERMITS**SACRAMENTO**

RESIDENCE, 6-room, \$5000; No. 1641 41st St., Sacramento; owner, O. M. Froling, 1625 40th St., Sacramento.
RESIDENCE, 4-room, \$3000; No. 2621 Santa Cruz Way, Sacramento; owner, Harry P. Jensen, 3733 Miller Way, Sacramento.
RESIDENCE, 7-room, \$4000; No. 1523 47th St., Sacramento; owner and contractor, John Dandretta, 4905 K St., Sacramento.
RAZE building, \$3000; No. 1409 Que St., Sacramento; owner & builder, Lowenthal, 1409 Que St., Sacramento.
RESIDENCE, 4-room, \$3000; No. 2631 Santa Cruz Way, Sacramento; owner, Harry P. Jensen, 3733 Miller Way, Sacramento

COMPLETION NOTICES**SACRAMENTO COUNTY**

Recorded Accepted
Nov. 25, 1930—LOT 6 AND LOT 5, except W 30 ft. of Schley Place,

Sacramento. John Dandretta to whom it may concern Nov. 14, 1930

Nov. 26, 1930—SACRAMENTO. Southern Pacific Co to whom it may concern (construct steel fan and heating building) Nov. 23, 1930

Nov. 29, 1930—LOTS 30 AND 31, J Street Suburban Tract No. 4, Sacramento. Gas Turbine to whom it may concern Nov. 26, 1930

Nov. 29, 1930—N 75 FT. LOT 15, Reese Villa, Sacramento. Everett L Eachus to whom it may concern Nov. 21, 1930

Dec. 1, 1930—S 100 FT. LOT 16 and S 100 ft. of W 3 ft. Lot 17, Map 2, Elmhurst. H M and Gertrude W Dunkel to whom it may concern Nov. 28, 1930

Dec. 1, 1930—LOT 43, Harding Place, Sacramento. A R Greenman to whom it may concern Nov. 27, 1930

Dec. 1, 1930—LOT 74 & McKINLEY Blvd. Tract; Lot 32, Harding Place, Sacramento. John Simmons to whom it may concern Nov. 29, 1930

LIENS FILED**SACRAMENTO COUNTY**

Recorded Amount
Nov. 28, 1930—W 1/2 LOT 2, N. O. 16th and 17th Sts., Sacramento. Homestead Lumber Co vs John G Berger and W O Kilborn.....\$217
Nov. 26, 1930—S 1/4 LOT 4, J, K, 5th and 6th Sts., Sacramento. San Joaquin Lumber Co vs Maud B Ehrhardt.....\$426.54

BUILDING PERMITS**FRESNO**

ALTERATIONS and additions, \$3200; Stanislaus and Fulton Sts., Fresno owner, Standard Oil Co., Prem.
DWELLING, \$3000; No. 1260 Thorne Ave., Fresno; owner, L. H. Hammond.
DWELLING, \$3000; No. 3402 Illinois Ave., Fresno; owner, and contractor, Dunn & Doss.
PRODUCE house, \$4000; C and Tulare Sts., Fresno; owner, Jan Chong Co.; contractor, E. J. Farr & Son, 1296 Linden St., Fresno.
ALTERATIONS and additions, \$1000; NO. 1317 O St., Fresno; owner, Holmes Supply Co., Premises; contractor, E. J. Farr & Son, 1298 Linden St., Fresno.

COMPLETION NOTICES**FRESNO COUNTY**

Recorded
Nov. 26, 1930—SECS 1, 2, 11, 14-12 Sec. 6, 14-13; Sec. 22-23, 24, 27, 28, 31, 32, 33, 13-13; Secs. 10, 16, 17, 19, 20, 13-14; Sec. 22 11-12, Fresno. Coast Natural Gas Co to Hulihan & Chestnut.....Nov. 14, 1930

LIENS FILED**FRESNO COUNTY**

Recorded Accepted
Nov. 25, 1930—LOT 12 BLK 1, Leona Heights, Fresno. Jacob Stuckert vs J D Brase.....\$180

OFFICIAL PROPOSALS

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C. Nov. 23, 1930.

SEALED BIDS will be opened in this office at 3 P. M., January 12, 1931, for the construction of the U. S. post office, etc., at Santa Ana, Cal. Drawings and specifications, not exceeding six xts., may be obtained at this office in the discretion of the supervising architect by any satisfactory general contractor, and provided a deposit of \$25.00 is made for each set to assure its prompt return. Checks offered as deposits must be made payable to the order of the Treasurer of the United States.

JAS. A. WETMORE,
Acting Supervising Architect

STATE OF CALIFORNIA**DEPARTMENT OF PUBLIC WORKS****DIVISION OF HIGHWAYS****NOTICE TO CONTRACTORS**

SEALED PROPOSALS will be received at the office of the State Highway Engineer, Public Works Building, Sacramento, California, until 2 o'clock P. M. on December 23, 1930, at which time they will be publicly opened and read, for construction in accordance with the specifications therefor, to which special reference is made, of portions of State Highway, as follows:

Nevada County, between the mile west of Washington Road and one-half mile east of Summit (111-Nev-13-C,D), about seven and four-tenths (7.4) miles in length to be graded.

Proposal forms will be issued only to those contractors who have furnished a verified statement of experience and financial condition in accordance with the provisions of Chapter 644, Statutes of 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Bids will not be accepted from a Contractor in whom a proposal form has not been issued by the Department of Public Works.

Plans may be seen, and forms of proposal, bonds, contract and specifications may be obtained at the said office, and they may be seen at the offices of the District Engineers at Los Angeles and Sacramento, and at the office of the District Engineer of the district in which the work is situated. The District Engineers' offices are located at Eureka, Redding, Sacramento, San Francisco, San Luis Obispo, Fresno, Los Angeles, San Bernardino and Bishop.

A representative from the district office will be available to accompany prospective bidders for an inspection of the work herein contemplated, and Contractors are urged to investigate the location, character and quantity of work to be done, with a representative of the Division of Highways. It is requested that arrangements for joint field inspection be made as far in advance as possible. Detailed information concerning the proposed work may be obtained from the district office.

No bid will be received unless it is made on a blank form furnished by the State Highway Engineer. The special attention of prospective bidders is called to the "Proposal Requirements and Conditions" annexed to the blank form of proposal, for full directions as to bidding, etc.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

C. FURCELL,
State Highway Engineer.
Dated November 26, 1930.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received at the office of the State Highway Engineer, Public Works Building, Sacramento, California, until 2 o'clock P. M. on December 17, 1930, at which time they will be publicly opened and read, for construction in accordance with the specifications therefor, to which special reference is made, of portions of State Highway, as follows:

San Luis Obispo County, between Paso Robles and the northerly boundary (V-SLO-2-A), about ten and nine-tenths (10.9) miles in length, to be graded and paved with asphalt concrete.

Santa Barbara County, between Gaviota and one mile north of Las Cruces (V-SB-2-E), about two and eight-tenths (2.8) miles in length, to be graded and paved with Portland cement concrete.

Proposal forms will be issued only to those Contractors who have furnished a verified statement of experience and financial condition in accordance with the provisions of Chapter 644, Statutes of 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Bids will not be accepted from a Contractor to whom a proposal form has not been issued by the Department of Public Works.

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The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
C. H. PURCELL,
State Highway Engineer.
Dated November 19, 1930

Building permits issued in Palo Alto during November, 29 in number, registered a total of \$88,125 as compared with \$325,105 for the corresponding period in 1929. Last month 7 permits were issued for residences costing \$36,900 and for a church building to cost \$20,000.

PROPOSED AMENDMENT, ETC.

(Continued from Page 1)

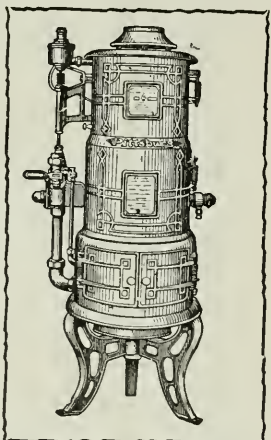
waiver, whenever the fact be established that the required number of laborers and mechanics possessing such qualifications cannot be engaged to perform labor thereunder. The foregoing provisions designated (1), (2), (3) and (4) must also apply to persons performing labor in the commissary or other auxiliary department of labor conducted in the course of the execution of such contract or any part thereof; and the said provisions shall also apply in any work done for or by the City and County, or by any officer, board, commission or department thereof, when such work is to be done at the expense of the City and County or paid for out of moneys deposited in the treasury. Any violation of any of the aforesaid provisions shall be held to subject the contractor to the penalty of ten (\$10.00) dollar a day for each laborer, mechanic or other person required or permitted to perform labor in violation of any provision of the contract, and shall disqualify the contractor from thereafter being held to be a responsible bidder on future contracts for work to be awarded under this Charter; any moneys due, credits earned, or bond filed by the contractor to secure the faithful performance of the accruing under the contract, and an action for the recovery of such penalty shall accrue to the City and County or the proper office or department thereof against the sureties on such bond, without previous demand upon the contractor for the payment thereof; and where the City and County or the treasury is indebted such contractor for work done under the contract, the amount of the penalty may be withheld or deducted from the moneys due and owing. Any officer of the City and County responsible in whole or part for any violation

of the provisions of this section shall be deemed guilty of misfeasance and upon proof of such misfeasance and be removed from office. The Board of Supervisors shall have power and authority to make and enforce regulations in the premises not in conflict with the provisions thereof.

The Sidney Lumber Company at Sidney, B. C., announces it has successfully operated its mills at Sidney, for the past three months' on a strictly profit sharing basis with 125 employees sharing the proceeds of lumber sales. No attempt was being made to earn a return upon the \$600,000 investment, officials said. The employees now have signed for a second three months' period, terminating March 1. Earnings to the employees distributed since last July, officials said, have been substantially larger monthly than the nominal wage scale. The mill is working at 110,000 feet capacity a day as against the old turnout of about 150,000 feet, the announcement said.

An amendment to the Los Angeles plumbing and gas-fitting ordinance, that was introduced by the gas appliance interests, two months ago, and which if passed would have permitted their employees to install certain gas heating appliances, without their first having passed an examination of qualification as gas-fitters, has been withdrawn.

Selection of San Francisco for the next annual Pacific Coast Regional meeting of the safety section of the American Railway Association on January 19, is announced. J. B. Monahan, safety supervisor for the Southern Pacific, has been appointed chairman of the session, according to H. A. Rowe, president of the association. More than 250 safety leaders of railroads and general industries are expected to attend.



A "Pittsburg" Automatic Water Heater installed in the Home indicates high quality throughout.

Recommended and specified by all the leading architects, plumbers and builders.

Consider the high merit of the Pittsburg coupled with "Pittsburg Perfect Service."

"Hot water quick as a wink."

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Thirtieth Year, No. 50

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GAS APPLIANCES TO BE REGULATED

A new project for the establishment of American Standards for the basic requirements of gas appliances has just been announced by the American Standards Association. The project will be placed in the hands of a technical committee under ASA procedure at the request of the American Gas Association which will direct the technical work of the committee.

The scope of the work as agreed upon by the American Standards Association is the "establishment of minimum or basic requirements for performance, safe operation, and substantial and durable construction for domestic gas burning appliances; together with laboratory methods of test for determining compliance therewith."

A committee of the American Gas Association has been working on this subject for a number of years. This committee, enlarged to assure balanced representation of producers, distributors, consumers, and other important groups will now continue this work under ASA auspices. Acting under the chairmanship of Mr. R. B. Harper, of the Peoples Gas Light and Coke Company, Chicago, Illinois, the committee will include representatives of U. S. Bureau of Standards; U. S. Bureau of Mines; U. S. Department of Agriculture; U. S. Public Health Service; U. S. Bureau of Home Economics, (Department of Agriculture); American Home Economics Association; Master Plumbers' Association; Heating and Piping Contractors National Association; Five individual gas companies; Seven individual gas appliance manufacturers.

Jack Elliott Joins America-Security Corp.

John S. (Jack) Elliott, well known San Francisco surety underwriter, has become associated with the America and Security Insurance Corporation, a superintendent of the general agency's fidelity and surety department, it announced by Vice-President M. B. Waterbury. The America & Security which is California general agent for the Central West Casualty of Detroit, already has a substantial volume of surety business and the appointment of Elliott at this time is in line with the agency's program of further expansion, according to Waterbury.

Jack Elliott has been on the street for many years, having been superintendent of the Globe Indemnity's fidelity and surety department in recent years. When he recently resigned from the Globe Indemnity he had been with that company for over fourteen years. Elliott is admitted to the practice of law in California. In addition, he served as Secretary of the Northern California Surety Underwriters' Association for a number of years and has taken a keenly active interest in association activities.

STANDARD ELECTRIC TIME WILL PROTECT USERS OF EQUIPMENT

"Our company agrees to prevent injury, damage or annoyance to any customer who purchases our apparatus," says R. N. Smith, manager of the Standard Electric Time Company, in answer to a complaint filed against his company by the Connecticut Telephone and Electric Corp. of Meriden, Conn., claiming an infringement of patent.

The Connecticut Corp. claims the Standard Company is infringing on six of its patents on electric signaling and lighting equipment.

The Standard Electric Time Company refutes the claim of the Connecticut Corporation in its entirety.

"Our company when starting its Berkeley, Calif., plant several years ago for the manufacture of such apparatus, retained one of the most prominent firms of patent attorneys in the United States to make sure that no patents were infringed by any of its apparatus and secured absolute assurance that no infringement was involved," says Smith.

"To vindicate our position the Standard Electric Time Company has already secured patents on three of the devices upon which the Connecticut Corporation claims infringement. This litigation is more in the nature of a friendly action to determine the exact status and value of the various patents owned by each manufacturer and the case may be settled in the near future without further litigation," Smith declared.

COAST LUMBER MERGER RUMORED

A huge Pacific Coast timber merger, involving millions, is in the making, it became known here yesterday.

Negotiations are under way by the Raymond Lumber Company, the Lewis Mills and Timber Company, the Willapa Lumber Company and the Weyerhaeuser Timber Company.

Also heavily interested in the merger is the Sudden and Christensen Lumber Company.

Operating properties of the first three companies and timber lands of the Weyerhaeuser Company in Pacific County, Washington, are involved.

According to dispatches, F. S. Bell, of Tacoma, president of the Weyerhaeuser Company, said:

"If the merger is consummated, the present operating units will continue after January 1 under the name of a new corporation. The merger will make possible various economies in operation.

"There is no change contemplated in the policies of the various companies or in the distribution methods."

The companies are all heavily represented in this region.

FOREST ROAD WORK SHOWS BIG INCREASE

During the past fiscal year 1,726 miles of roads and 6,175 miles of trails were constructed on the 149 national forests of the United States, according to report from Major R. Y. Stuart, Chief of the U. S. Forest Service. This represents an expenditure of \$10,356,172, of which \$8,883,595 was Federal funds and \$1,472,577, cooperative funds.

The estimated expenditures required to complete all road and trail work in the national forests is \$232,588,200 which is divided into forest highways, or first class roads forming part of State or county highway systems within or partly within the national forests, estimated to cost approximately \$19,057 per mile; forest development or secondary roads built by the U. S. Forest Service, estimated to cost \$1,311 per mile, and trails at \$130 per mile. According to the present estimate, when completed, there will be 16,929 miles of forest highways, 51,703 miles of forest development roads, and \$149,768 miles of trails.

To date, \$111,179,571 has been spent by the U. S. Forest Service on roads and trails, representing \$89,122,195 road funds, \$2,152,933 other Federal funds, and \$19,904,743 cooperative funds. This sum has accomplished the construction of 18,455 miles of roads and 53,452 miles of trails. Highways or major roads have cost an average of \$14,368 per mile; forest development roads \$1,327 and trails \$171 per mile.

At present there is an annual authorization of \$12,500,000 for the construction and maintenance of roads and trails in national forests. Of this amount, \$9,500,000 is legislatively set aside for forest highways or major roads and \$3,000,000 for forest development roads and trails.

BRITISH ALUMINUM STANDARDS

The British Engineering Standards Association has just issued a group of standards relating to aluminum. The standards are:

336-1930 Wrought light aluminum alloy tubes for general engineering purposes. This specification covers the alloy generally known as duralumin.

335-1930 Wrought light aluminum alloy sheets and strips. This specification also covers the alloy generally known as duralumin.

335-1930 Pure aluminum tubes for general engineering purposes. This specification covers aluminum tubes up to 6 inches and gives test information.

336-1930 Pure aluminum bars and sections for general engineering purposes (excluding wire bars).

338-1930 Aluminum powder for paints. This specification is one of a series of about 60 specifications for paints, varnishes, and paint ingredients.

MODIFICATION OF STREET IMPROVEMENT LAWS PROPOSED

(Reprint from Southwest Builder and Contractor)

A preliminary report on revision of the street improvement laws of California was submitted at a final meeting of the Joint Legislative Committee held in Los Angeles December 1. After hearings conducted over a period of several months and a study of the situation as presented the committee makes the following recommendations:

First—The establishment of a debt limitation.

Second—That the city or county supervise the circulation of petitions for public improvements and that it be required that each petition circulated contain the following information:

(a) Assessed valuation of the property within the lines of the proposed assessment district.

(b) The existing indebtedness against the property within the assessment district for public improvements.

(c) The estimated cost of the work.

(d) That said petitions be prepared by the city or county authorities to be issued to property owners only residing within the district proposed to be improved.

Third—That in the larger cities and counties provision be made for the appointment or establishment of a commission for the purpose of investigating proposed local improvements to determine the necessity, feasibility, cost, present outstanding indebtedness for local improvements, and assessed valuation of the property within an assessment district, with authority to confer with property owners as to the necessity and desirability of the proposed project, said commission being required to report to the legislative body of the city or county the facts found.

Fourth—This committee recommends that the city authorities make a more careful study of a comprehensive plan of improvement projects to be made, with a view to co-ordinating assessment districts in order that overlapping assessments, so far as possible, may be eliminated and that the cost of the work may be more evenly distributed among property owners.

Fifth—The elimination of the provision in special assessment statutes providing for the levy of an assessment on the ad valorem plan and providing in lieu thereof that assessments against property for local improvements be specific charges against individual properties within the assessment district.

Sixth—The repeal of all local improvement acts, except one act for the construction of local improvements, one act for the opening, widening and straightening of streets and one act for the acquisition and improvement of parks, street lights, etc., and in this respect this committee recommends that those acts which have been used for a period of time covering these types of improvements be continued in force with the amendments hereinafter recommended.

Seventh—The repeal of provisions of all statutes providing for enforcement of special assessments through filing of suit and that provision be made for the foreclosure of assessments through the office of the city or county treasurer.

Eighth—That provision be made for allocation of a portion of gas tax funds to municipalities to be used to defray a portion of the cost of major projects.

Ninth—Amendment to the law to provide that in the acquisition or improvement of streets exceeding 60 feet in width, the difference in cost of the acquisition and improvement of the street to 60 feet and the cost of the acquisition and improvement of the street to whatever width constructed in excess of 60 feet be paid for out of the general funds of the city or county, as the case may be.

This committee has determined that the improvement acts should be amended in many respects of less importance than those hereinbefore pointed out, among which are the following:

First—That assessments collectible in cash be, in all cases, collected directly by the city or county with the elimination of collections by contractors.

Second—The reduction of penalties charged for delinquencies so far as this is possible without jeopardizing the enforcement of collections, and the reduction of the maximum interest rate to eight per cent per annum.

Third—The elimination, so far as possible, of technical language in property descriptions in ordinances and notices.

Fourth—Amendment of bond act used in conjunction with the Opening and Widening Act of 1903, to extend term and to provide for automatic issuance as now provided in Improvement Act of 1911.

Fifth—Provision for sending out notices to property owners of proposed changes of grade of streets in proceedings under the Improvement Act of 1911, notifying the property owners of the work to be done in order that claims may be filed for damages suffered.

Discussing its recommendations the committee says:

Debt Limitation

There has been a growing demand on the part of property owners for protection from the action of legislative bodies in placing heavy burdens on property in the form of assessments, by limiting the power of legislative bodies in the institution of proceedings for public improvements. This subject is one which has been much discussed throughout the state and which came before the legislature and the members of this committee at the last session of the legislature. It was felt at that time, however, that the matter had not received sufficient consideration and study to warrant the legislature in taking action. The difficulty of forming a rule of law to take care of arbitrary and unwarranted acts of legislative bodies has been that it is an attempt by law to control that which should be a matter of discretion in legislative bodies.

It is apparent to this committee that in many cases very useful and valuable improvements, valuable not only to the city and county, but to property owners as well, may not appear to be so to some of those who are faced with the immediate prospect of paying the bill, and that a legislative body with vision and foresight may see the benefits to accrue not only to the city, but to property owners, in the making of such an improvement, even though it be costly, and for this reason it is impossible to recommend to the legislature the passage of an inflexible rule, in order that in those few instances which may arise where improvements should go

through, such improvements may in some manner be authorized. The committee recommends as follows:

That if the cost of an improvement or acquisition, when added to other charges against the property for the making of public improvements, exceeds the assessed valuation of the property within the proposed assessment district, the legislative body of the city or county shall not have jurisdiction to proceed with the work. Provided, however, that if the legislative body shall, by a four-fifths vote of its entire membership, find and determine that the estimated cost will not exceed fifty per cent of the estimated benefits of the work or improvement to be made and the city council shall, by resolution, so determine, it shall have jurisdiction to proceed. Said resolution shall set forth the facts upon which said legislative body bases its conclusion that said property shall be so increased in value after which the legislative body shall have jurisdiction to proceed. The committee approves in substance the report on debt limitation of the Los Angeles Chamber of Commerce Co-ordinating Committee on Special Assessments.

Circulation of Petitions

The committee has found throughout all its hearings considerable complaint upon the part of the property owners of the manner in which petitions for public improvements are circulated. It has been represented to the committee, as hereinbefore set forth, that parties interested in selling products used in the making of public improvements have been instrumental in causing the circulation of petitions. That said circulators have either concealed or misrepresented the actual facts in connection with improvements to be made and that property owners are not fully advised as to the facts, with the result that improvements are started and sometimes consummated before property owners get any idea of the actual cost thereof or the burden being placed upon their property. These are merely a few of the objections made to the present system of circulation of petitions and this committee has come to the conclusion that if petitions are to be circulated, the city or county must exercise a very careful supervision thereover in order that property owners may be fully advised of the facts and not be misled by misrepresentations of the circulators.

The committee is advised that there is no provision in any of the improvement statutes at this time requiring the circulation of petitions, but it is merely a matter of local regulation on the part of the legislative bodies. This being true, this committee recommends that the legislative bodies of cities and counties throughout the state amend their local regulations to provide as follows:

That a petition show estimated cost per sq. ft. or per front ft., as necessity requires, of the making of improvement based upon estimated cost thereof, and that said notice contain a statement to the effect that the cost so given is the estimated cost and that the amount to be charged against the property may be in excess of that as estimated in the petition. These requirements should, of course, be supplemented by a statement of the work to be done and a general outline of the tentative assessment district,

and such other matters as shall fully inform the property owner as to what is to be done, etc.

Investigating Commission

It appears to this committee from its investigation that many ill-advised improvements have been constructed throughout the state. This is the result of a system which has placed the responsibility for the construction of public improvements on property owners filing petitions. The method of making public improvements appears to be for property owners to file a petition signed by a majority of the property owners fronting on the proposed improvement. When this is filed action is taken by the legislative body of the city or county to institute proceedings for the making of the improvement described therein, with such alterations as it may deem advisable. The attitude of legislative bodies is that a petition having been signed by a majority of the property owners expressing a desire to have the improvement made, the responsibility for making the improvement rests with said property owners. Investigation has shown that property owners sign petitions with little or no idea of the work to be done or the cost thereof, and with no conception of the burden to be placed on their property when the improvement is completed.

In some instances it has been found to appear to this committee that property owners were of the opinion that the work would be paid for by the city or county and did not realize that the cost would be borne by an assessment district. In many instances petitions are circulated by parties interested in selling materials to the city or county, or who have some financial benefit in view, and if they do not actually misrepresent the work to be done, at least the property owners receive a picture of the benefit alone to be received, without being fully advised as to the cost thereof. In other words, property owners in signing petitions do so without being fully advised as to the work to be done or the cost thereof or other facts in connection therewith, which, if they did know, would, no doubt, result in petition circulating failing to get the required majority of signatures necessary in order to file the same with the legislative body of the city or county and to have the proceeding instituted. The result of this is that no thorough investigation or report as to the facts in connection with the improvement either as to necessity, feasibility, cost, assessed valuation of the property, amount of existing indebtedness against the district or other facts in connection therewith, are brought to the notice of either the property owners or the legislative body of the city or county in instituting proceedings. The result is that numerous and costly improvements are instituted and completed and the sole warrant for so doing is the filing of a petition which did not truthfully represent the sentiment of the district. It requires no argument to support the statement that if property owners paying large assessments today were advised in advance of the improvements made as to the burden which they would be required to meet, the improvements for which they are paying would never have been constructed. Therefore, it is the purpose of this committee to recommend to the legislature at its coming session that provision be made for the appointment of a commission or body empowered with the duty of investigating the facts concerning all improvements to determine the necessity thereof, the feasibility and the cost thereof, to calculate the present outstanding indebtedness against the district and to report as to the assessed valuation

of the property within the assessment district. In other words to be a fact-finding commission with the duty of advising property owners within the district and the legislative body of these facts.

It is the purpose of this committee to also recommend that this commission be given the authority to hold hearings at which property owners may present their objections as to the making of such improvements, and to be given the opportunity to investigate and determine whether or not there is merit in objections so made and to make a full and complete report to the legislative body of the city or county.

Legislative bodies of cities and counties have, in many instances been held responsible for ill-advised improvement projects and have been censured for failure to give full consideration to protests made by property owners. This committee is of the opinion that due to numerous proceedings which have been put thru and which are now being put thru in cities such as Los Angeles, Oakland and San Diego, and other large cities and counties, with the great amount of business of the city or county which must be attended to, it is impossible for legislative bodies, either as individuals or collectively, to fully investigate the facts in connection with improvement projects.

In the city of Los Angeles there are, no doubt, several hundred projects put through each year. With the large volume of city business which must also be taken care of affecting numerous departments of the city, and other matters which must be given consideration, it is impossible for legislative bodies or members thereof to give these matters the serious consideration warranted. However, if these matters are investigated and the facts are placed before the legislative body of the city or county, we have no doubt as to the fairness or responsibility of these officers acting for the protection of the interests of their constituents. Our investigation has shown that many protests are filed by property owners which have merit, but which are not properly drawn and when read do not fully bring home to the legislative bodies the merit of the objection made. This, we believe, will be overcome by charging a commission with the duty of investigating these objections and by giving such commission time and opportunity to see that all objections made are fully investigated.

This committee, in its study of the apportionment of the cost of public improvements, has had brought to its attention the inequalities in the present system of paying for the acquisition and improvement of major traffic arteries. A large volume of traffic has been thought by a great many to be of value to the abutting property in improving the same for business purposes. This may be true to some extent, but this committee is of the opinion that this is, in a large measure, a mistaken view. That the difficulty of parking, or ready access to business properties on such streets and numerous other reasons, do not make the benefit to the abutting property increase in direct ratio to the increased cost of such work.

The purpose of constructing major traffic arteries is for the rapid movement of traffic and is directly beneficial to the city or county at large, with only an incidental benefit to the abutting property. This committee is of the opinion that it is inequitable and unjust to require abutting property owners to pay the entire cost of doing this work and recommends that the cost of acquisition and improvement beyond width of 40 ft. between property lines be borne out of the gen-

eral funds of the city or county or from some other method of contribution. The acceptance of this recommendation is dependent upon a method of financing being worked out. If the legislature accepts the recommendation as to the allocation of gas tax to cities, these funds would be available for such purposes.

There are numerous other matters of less importance in connection with the protection of property owners and in the interest of the expedition of public improvements that have come to the attention of this committee at its public hearings, and this committee desires to make the following recommendations relative to the amendment of public improvement statutes:

The committee does not wish to be understood as recommending the repeal or the revision of the Improvement Bond Act of 1901 or any other statute providing for the issuance of general obligation bonds by municipalities. Neither does it wish to be understood as recommending the repeal of the Acquisition and Improvement Act of 1925, but believes, if possible, this statute with its many features of great merit, should be continued in effect, but should be amended in the manner set out in the first recommendation of the committee hereinbefore referred to.

This report is merely a preliminary report of this committee and is submitted for the purpose of further discussion and consideration by those interested in order that this committee may have the benefit of their criticisms and suggestions in adopting a final report. This committee recognizes the fact that this report does not cover in detail the changes necessary to be made and may be subject to criticism, but it is merely a general statement of the conclusions thus far arrived at by the committee from the hearings heretofore held and this committee asks for and welcomes discussion and criticism of the matters herein set out.

Members of the committee are: Clare Woolwine, chairman; Charles W. Lyon, vice-chairman; Harry Lyons, secretary; Emory J. Arnold, Walter J. Little, Daniel C. Murphy, Frank C. Weller.

MERGE INDEPENDENT MILLS, SAYS GREELEY

Consolidation of the smaller independent lumber mills and timber holdings of Western Oregon and Washington into units of greater resources and financial strength is suggested by W. B. Greeley, manager of the West Coast Lumbermen's Association.

Greeley told members of the Western division of the United States Chamber of Commerce, in session at Portland last Monday, effective adjustment of current production of lumber to the consumptive demand is one of the greatest problems of the industry.

He asked for further clarification or liberalization of statutes dealing with restraint of trade.

Consolidation movements, he said, must lead the way for orderly control of production.

"And this need not take the form of a single, giant merger of timber holdings and operating facilities," Greeley added. "It may come about most practically through a number of consolidations formed by grouping mills or timber holdings in each of the principal lumber producing districts of Western Oregon and Washington."

THE OBSERVER

What He Hears and Sees on His Rounds

According to word from Seattle, no improvement is evident in the skilled building trades and widespread unemployment continues. All trades report large numbers of idle men.

During the latter part of October the largest plant in the Soviet Union for the manufacture of silicate bricks was completed near Moscow. It has an annual capacity of 80,000,000 bricks and 26,000 tons of hydrated lime, and is equipped with the latest technical improvements. The plant has already begun operations and is expected to produce 265,000 bricks a day.

A nation-wide survey of the building industry reveals, the Indiana Limestone Company announces, that construction so far this year has a value of four and a half billion dollars. Records of leading centers, backed by reports from several hundred other cities and towns, makes up a "somewhat checkered picture," President A. E. Dickinson said, but a "more hopeful spirit is permeating the industry and a far better situation may be expected in 1931."

Reorganization plans of the Pacific Coast Electrical Bureau, formerly the California Electrical Bureau, will be announced to the electrical industry of northern California at a dinner meeting to be held Jan. 9 at the Commercial Club, San Francisco. An added feature of interest to commercial men of the industry will be the announcement at the meeting of the 1931 sales program of the Pacific Gas and Electric Company.

Lumber is being sold in Tacoma in a house-to-house canvass by salesmen for the St. Paul and Tacoma Lumber Company. The Tacoma firm reports that 60 per cent of the home owners so far approached were prospects for improvement work of some kind. So successful has been the campaign in the city that the lumber company is planning to extend the effort to other communities. Salesmen will be provided with a list of 130 suggested home improvements involving the use of lumber.

Senator Davis of Pennsylvania introduced his first bill last Wednesday and it showed the influence of the years he spent as secretary of labor.

It was a measure to empower the government to fix the wage to be paid laborers and mechanics employed on public buildings by contractors and sub-contractors.

Davis said it was to maintain the local wage scale and to promote employment of local workmen, rather than the transfer of laborers and mechanics from other communities.

He explained his experience as labor secretary had convinced him frequent shifts of workers often caused them to become public charges far from home.

Sweden is setting the pace for architectural development, Louis La Beaume, noted architect, declared on a visit to St. Louis. "They have developed a modern style that is individual and not bizarre," La Beaume said. He termed the Chrysler building in New York "a damaging advertising stunt of acrobatics."

An investigation by the U. S. Department of Justice of the increase of more than \$1 a ton in the price of steel, just announced by the steel companies, is demanded by Senator Norris of Nebraska.

Norris said he believed the price increase involved a violation of the anti-trust laws. He called attention to the vast amount of steel to be used in the public building program being speeded to provide employment. He said:

"In face of this patriotic movement we are faced with the announcement that the great steel companies, including the United States Steel Corporation, have agreed upon announcing an increase that amounts to more than \$1 a ton.

"It looks to me like a violation of the anti-trust laws. I hope the department of justice will take notice of it."

The trend of building costs in the middle west is indicated by the bidding on a postoffice building at Lafayette, Ind. An appropriation of \$375,000 was made for it several years ago and on a recent letting the job was bid in at \$179,215. There were 21 bidders whose prices ranged up to \$237,250. The average of the bids was \$212,000. The low bidder's price was \$9600 under that of his nearest competitor.

Electrical dealers and contractors have complained long and bitterly of utility competition in the sale of electrical goods, says the Business Week. At their convention, through their trade publications, they have consistently contended that the central stations could safely leave the merchandising field to them without fear of a slump in the annual increase in the power load which is what the utilities are chiefly interested in. Southern California Edison Co., Ltd., is going to give them a chance to prove their case by temporarily withdrawing from direct sales activities in the city of Long Beach, Calif. (1930 population, 141,528). The whole utilities industry is watching the experiment with keen interest.

An interesting and successful use of color in industry has been made in the shoe-making plant of E. T. Wright Co., Rockland, Mass. All ceilings in the plant are painted white, but all machinery, shoe racks, and overhead piping are in color—one color to each department. Colors used are delicate shades of orchid, green, blue, or orange. In offices, telephones, desks and other equipment have been painted to fit the general scheme. Under these conditions it has been found that workers experience less fatigue than formerly; that use of bright colors has removed the dingy and depressing aspect of factory life; that brighter working conditions induce more efficient workmanship. Accidents have from defects.

By unanimous vote the employment committee appointed by Mayor E. E. Roberts of Reno, Nevada, went on record as opposed to any reduction in wages for the building crafts or in other lines. A reduction in wages was

advocated by the pastor of a local church with a view to stimulating new building construction and repairs in an effort to relieve the unemployment problem.

Speaking at a conference of the American Academy of Political and Social Science on the general topic of Security in Industry, Matthew Woll, vice-president of the American Federation of Labor, declared labor's solution of unemployment can be found in higher wages and fewer working hours and days. Woll said adoption of such a plan would increase opportunities for employment and put in a minor role all other unemployment remedies.

Onyx Manufacturing Co. has established a factory at 857 Alabama St., and will fabricate various articles from raw onyx. According to A. D. Wilson, manager of the company, the products will include auto gear shift balls, door knobs, table tops, drawer pulls, lamp bases, book ends, etc.

Labor has fared much better during the present depression than in past hard times in the opinion of Secretary LaMont.

Speaking under the auspices of the Washington Star over the Columbia broadcasting system, last Saturday night, the commerce secretary used the 1921 depression for comparison purposes and found comfort for the working man.

He said in the earlier depression that "wage reductions were the order of the day," adding that last September only 11 of nearly 14,000 industrial plants reporting had cut wages, and that other months of 1930 were as favorable. He said unskilled and unorganized labor had fared as well and that in some cases the day laborer was getting more per hour than in 1929.

"Every retail lumber dealer accepts the accumulation of odds and ends of material as an inevitable feature of his business. How best to get rid of them, yet turn them into as much cash as possible, is the problem," says the American Lumberman. The Brockville Lumber Corporation of Brockville, Ontario, has a novel method of turning over this material, and one which is particularly effective in bringing the farmers to the yard. For instance, if a number of doors of a slow-moving size or grade or kind are accumulated they are advertised as goods on which old doors may be traded in. The old doors are accepted and an attractive turn-in discount is allowed on a new door, to be selected from doors included in the firm's "bargain counter material." The latter sale is held periodically and may include a wide variety of material that has been in stock for too long a period. In this way all lines of material are kept cleaned up and odds and ends are not allowed to be around until they are beyond any value to anyone. Of course, the trade-in offer cannot be applied to all lines, but it has been found to be a means of bringing in new customers, besides being an economy feature."

Silas L. Gillan, mining engineer, has been elected president of the Engineers' Club of Los Angeles, succeeding Paul Overton. Other officers who will serve for the forthcoming year are: First, vice-president, Harry L. Caldwell; second vice-president, Thurston H. Ross, and secretary-treasurer, Le Roy C. Williams.

TRADE NOTES

Announcement of declaration by Superior Portland Cement Company, of the regular quarterly dividend on the Class "B" stock, amounting to 25 cents per share, was made last Monday, through Tucker, Hunter, Dulin & Co. The dividend is payable on December 20 to stock of record December 13.

Bodinson Manufacturing Company of San Francisco, manufacturers of sand and gravel producing plant equipment, has opened a branch office in Seattle with E. J. Soderblom in charge.

Altorfer Brothers Company, Peoria, Ill., manufacturers of electric washing machines, ironers and table appliances, has opened a Pacific Coast sales office in the Chamber of Commerce Bldg., Los Angeles, with R. W. Gorham in charge.

H. K. Butler, formerly service foreman in the Seattle office of the Edison General Electric Appliance Company, has recently been appointed office manager and factory branch service station manager of the company's Seattle office.

J. G. Williams Construction Co. has merged with the Steel Erectors Consolidated, Ltd., with headquarters at 47 Hubbell St., San Francisco.

Falls Electric Furnace Co., Buffalo, N. Y., manufacturers of electric heat treating furnaces, has appointed the Sierra Equipment Corporation with offices in Los Angeles, San Francisco and Seattle, as its exclusive sales agent and distributor in the Pacific Coast territory.

State Electric Supply, Ltd., wholesale electrical distributors, have opened headquarters at 241 Tenth Street, Oakland. The three owners, Harry E. Perl, W. T. Ahnstrom, and W. V. Etzkorn, were formerly connected with Gilson's Inc., and have taken over that business.

California Desert Products Co. has established San Francisco headquarters at 53 Sutter Street. Sale of clays and clay products for reservoir sealing, which are obtained from the company's Death Valley mine, will be handled from the San Francisco headquarters.

Oregon - Washington Plywood Co., with headquarters at Portland, Ore., has established a San Francisco branch with offices at 24 California street. Stock of the company's "plywood" fir and spruce panels will be warehoused locally.

Merger of the Drendell Electrical & Manufacturing Company with the Trumbull Electric Manufacturing Company of Plainville, Conn., has been completed. The company is now operating under the name of the Drendell-Trumbull Electric Manufacturing Company, with its main office and factory at 1760 Howard St., San Francisco. The new company will confine its activities to the designing and manufacturing of switchboards, panel boards and electrical specialties. L. Siebert, former vice-president and secretary of the Drendell company, is president and manager of the Drendell-Trumbull Company.

ALONG THE LINE

Royal Floor Co., Inc., specializing in hardwood flooring, 609 Seventh St., has been admitted to membership in the San Francisco Builders' Exchange.

Warren C. Perry, professor of the University of California architectural department, has been appointed by Governor C. C. Young as a member of the California State Board of Architecture, Northern District, succeeding James S. Dean, city manager of Sacramento, who resigned.

Executive offices of the Golden Gate Bridge & Highway District have been opened at 722 Financial Center Bldg., with William Felt, Jr., secretary of the district, in charge. This office will be separate from that of the Strauss Engineering Corporation which firm is handling the bridge design.

J. P. Baumgartner announces his resignation from the State Highway Commission. Baumgartner gave as his reason the wish to spare Governor-elect Rolph any embarrassment concerning membership on the commission.

C. W. Fairbanks is president of the Builders' Exchange of San Luis Obispo, recently organized. A. V. Cline is vice-president; James Jepson, treasurer and William M. Black, secretary-manager.

Charles D. Vail, former manager of parks and improvements for the city of Denver, has been appointed state highway engineer of Colorado. He has had extensive experience as a railway engineer, having served in that capacity for six different railway companies.

With forty-two men to a team, two teams will concentrate on a membership drive for the Fresno Engineer's Club. Lee Duncan and W. H. Wheaton are captains of the teams. The drive will end January 14. The losing team will eat a bean dinner and finance a turkey dinner for the winners.

Division heads and the entire personnel of the water and power bureaus of Los Angeles, have been placed under the direction of H. A. Van Norman, chief engineer and general manager of the water bureau. Carl A. Heinze, electrical engineer, will be assistant to Van Norman at a salary of \$1000 a month, and C. K. Chapin will be assistant electrical engineer at \$400 a month. E. F. Scattergood will remain general manager of the power bureau. The reorganization is in the interest of economy. It is announced by the city administration.

A publication of the American Society for Testing Materials, comprising a list of standards which have been adopted by the A. S. T. M., and tentative standards which are now in process of development, has been received and is available for loan or purchase through the ASA Information Service, 29 W-39th St., New York City. The standards are listed under the following subjects: ferrous metals; non-ferrous metals; cement, lime, gypsum, concrete, and clay products; miscellaneous materials; miscellaneous subjects.

HERE—THERE EVERYWHERE

A Salt Lake City ordinance requiring that electric signs shall not extend more than 10 ft. from the building or property line was recently handed to Fred D. Winegar, city electrical inspector, for enforcement.

Rights of journeymen plasterers to old on contracts is being questioned by the Plasterers' Union, Local No. 381, at San Mateo. A special meeting of the union has been called to discuss the matter.

The activities of the Building Industries Association of San Jose, newly organized body to eliminate bad credit risks from the building industry, has been unanimously endorsed by the San Jose Realty Board.

For the third successive year the City Council of Colby, Kan., voted to let the municipal water plant wash away the city's bills. During the last two years the earnings of the plant have paid administration bills, provided \$200,000 for pavements, paid for new equipment and placed a balance of \$45,000 in the city treasury. If this is possible in Colby, Kan., why is it not possible in many other cities? —Turlock Journal.

Arrangements are being completed by the Builders' Exchange of Portland, Ore., for the annual Christmas Tree festival to be held in the exchange quarters. The affair will be held December 24. Members, their wives and kiddies will each receive a Christmas package from (like Stanchfield). Santa Claus. Thirty needy children will also be provided for.

Proposed legislation that would require all contractors in the State of Washington to be licensed, and also requiring pre-qualification of contractors bidding on public works in the state was discussed at a recent meeting of the Seattle Equipment Distributors' Association. The matter has been referred to the Executive Board of the association for report.

National Association of Paris Transit Mixed Concrete Manufacturers, comprising more than fifty operators on Paris Transit Mixers in the United States and Canada, will hold its annual convention in St. Louis, Mo., January 9-10-11-12.

Reno, Nevada, recently adopted a set of rules and regulations regarding electrical work which make the underwriters' rules effective in that city. Ordinances affecting overhead construction, inspections, fees, etc., were also made.

N. E. CODE RECOMMENDED

A number of trade practice rules were approved at the convention of the Association of Electricists as being suitable for adoption by the trade practice conference of the electrical contracting industry, under the auspices of the Federal Trade Commission. One of the rules approved by the convention reads as follows:

"In territories where no governmental laws, rules or regulations as to electrical installations prevail, the regulations as laid down in the National Electrical Code, as approved by the American Standards Association, shall be used."

NEW YORK STEEL ERECTORS SUED FOR \$3,500,000 BY UNION

Charging breach of contract, the International Association of Bridge, Structural & Ornamental Iron Workers on Nov. 21 filed suit in the supreme court of New York asking \$3,500,000 damages from the Structural Steel Board of Trade (New York City), says Engineering News-Record. Specific charges are that the board has refused to live up to a contract agreement made May 12 last to use only union iron workers on New York building work. The several large steel erection contractors forming the Steel Board of Trade have been at odds with the steel workers' union for the past 25 years and have refused to employ union iron men on work in the metropolitan area.

The feud came to a head late last spring with the start of steel erection on the Empire State Building. According to the office of Frank P. Walsh, counsel for the International Association, former Governor Smith, president of the Empire State Co., requested, when the general contract for construction was signed with Starrett Bros. & Eken, that union iron workers be used. Upon the award of a sub-contract for erection to Post & McCord, member of the Structural Steel Board of Trade and advocate of the open shop, sympathetic strikes were called throughout the county on all Starrett Bros. jobs. These strikes were called off upon advice from New York that Empire State controversy would be settled to the satisfaction of the union.

Then, according to the union's counsel, an agreement in the form of a contract was drawn up providing for an end to the long dispute between erectors and the union and was approved by both sides after minor differences had been ironed out by William Green, president of the American Federation of Labor, acting as arbitrator. Though approved by the Structural Steel Board of Trade, the contract was never formally signed by the board officials. The Empire State job went ahead on an open-shop basis.

In bringing the suit for damages, the union contends that the contract is binding, even though not signed, as it was the intent and expression of the board to enter into the agreement. An injunction has been asked for by the union restraining the members of the board from hiring other than union men.

McGraw-Hill in Popular Book Publishing Field

The McGraw-Hill Book Company, Inc., of New York, which heretofore has confined itself to publications in the technical fields of science, engineering and business, has extended its scope into the field of general literature with the formation of Whittlesey House for the publishing of non-technical books addressed to the lay reader and intended for sale through the book stores of the country.

The first list of Whittlesey House publications includes books in such diverse categories as astronomy, economics, history, psychology, diplomacy, aviation, travel, criminology, and other fields of general popular interest, as well as books for children.

PACIFIC COAST BUILDING TOTALS FOR NOVEMBER, 1930

Following is a tabulation of November, 1930, building permit totals covering the states of California, Arizona, Idaho, Nevada, Oregon, Utah, and Washington, as reported by building department executives of the cities named:

CALIFORNIA

City	November, 1930		November, 1929	
	No.	Cost	No.	Cost
Alameda	45	\$ 15,300		\$ 48,579
Alhambra	59	125,625		145,650
Anaheim		54,637		33,245
Bakersfield	41	37,822		178,230
Berkeley	100	96,199		280,089
Beverly Hills	57	268,000		478,102
Burbank	21	31,690		69,800
Burlingame	15	32,200		29,200
Carmel	14	20,080		45,887
Chula Vista	9	6,115		13,790
Colton	9	3,450		4,150
Compton	24	17,790		26,745
Coronado	14	8,825		31,395
Culver City	57	15,876		40,380
Emeryville		40,500		500
Eureka	24	12,550		85,213
Fresno	131	140,036		121,135
Fullerton	17	25,790		42,722
Glendale	87	204,675		242,550
Hayward	3	5,650		7,525
Huntington Park	42	78,883		189,500
Inglewood	35	37,420		47,120
Long Beach	345	600,110		1,064,535
Los Angeles	2,148	4,784,444		6,679,288
Los Gatos	8	5,750		19,955
Lynwood	23	23,100		28,400
Modesto	24	13,870		60,045
Monrovia	12	12,176		11,170
Montebello	9	9,750		21,875
Monterey	24	36,814		35,287
National City	7	6,370		12,480
Oakland	244	366,616		779,572
Oceanside	10	6,830		6,250
Ontario	22	30,875		40,652
Pacific Grove	17	17,725		15,825
Palo Alto	29	88,125		325,105
Palos Verdes Estates		7,860		45,000
Pasadena	334	213,031		220,251
Petaluma	5	6,265		4,800
Piedmont	10	52,593		41,454
Pomona	50	33,135		70,075
Redlands	13	49,565		27,104
Redwood City	20	32,715		28,920
Richmond	47	24,222		28,550
Riverside	53	32,658		32,164
Sacramento	125	145,004		382,715
Salinas	31	55,300		121,883
San Bernardino	49	86,306		222,757
San Diego	245	106,920		811,994
San Francisco	441	1,313,672		2,487,796
San Gabriel	9	21,525		13,060
San Jose	62	100,805		126,700
San Leandro	11	10,315		51,245
San Marino	4	51,081		187,000
San Mateo	22	75,935		183,075
San Rafael	16	24,800		16,905
Santa Ana	54	61,517		176,319
Santa Barbara	87	199,750		230,331
Santa Cruz	25	27,770		22,355
Santa Monica	53	151,155		59,422
Santa Rosa	23	44,882		39,850
South Gate	37	53,355		32,345
South Pasadena		20,844		77,666
Stockton	50	41,600		40,905
Torrance	8	15,450		32,650
Vernon		63,935		31,760
Ventura	12	17,315		42,850
Watsonville	19	38,325		31,470
Willow Glen	14	51,250		
Total	5,667	\$10,613,623		\$17,217,639

ARIZONA

Phoenix	48	\$ 127,805	\$ 157,833
Tucson	64	120,402	75,135
Total	112	\$ 248,207	\$ 232,968

IDAHO

Boise	73	\$ 21,467	\$ 52,677
Lewiston	18	16,915	13,445
Nampa	27	43,070	22,135
Total	118	\$ 81,452	\$ 88,257

NEVADA

Reno	33	\$ 72,350	\$ 139,025
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OREGON

Albany	6	\$ 11,360	\$ 13,690
Astoria	20	4,002	3,935
Eugene	37	132,531	13,500
Klamath Falls	20	7,945	66,185
La Grande	10	4,085	14,212
Marshfield	4	4,400	10,230
Portland	412	992,960	919,500
Salem	47	17,730	34,391
Total	556	\$ 1,175,073	\$ 1,076,003

UTAH

Logan	4	\$ 10,785	\$ 7,600
Ogden	18	48,400	142,359
Salt Lake City	74	117,115	205,675
Total	96	\$ 176,300	\$ 355,025

WASHINGTON

Aberdeen	19	\$ 2,950	\$ 92,495
Bellingham	37	76,718	25,030
Everett	47	31,595	49,210
Hoquiam	9	1,080	56,650
Longview	6	60,825	15,880
Port Angeles	12	10,325	74,515
Seattle	486	3,024,675	1,245,950
Spokane	125	121,265	130,603
Tacoma	127	401,500	484,470
Vancouver	16	3,655	28,725
Walla Walla	26	13,727	54,025
Wenatchee	10	10,500	68,465
Total	920	\$ 3,758,815	\$ 2,296,048
Grand Total	7,502	\$16,125,820	\$21,404,965

SOVIET EXILES ARE CONVICTS TREASURY AGENTS WILL HOLD

After satisfying itself that no country in the world, unless Soviet Russia, exports to the United States any goods made by convict labor, the Treasury Department issued this week regulations, effective immediately, permitting it, without affirmative proof, to exclude goods suspected of convict labor origin, says The Business Week.

After a finding by the Commissioner of Customs that convict labor is used in any locality in a foreign country in mining, producing, or manufacturing any commodity, importation of any merchandise of that class from that locality shall thenceforth be prohibited unless the importer establishes by preponderant evidence for each shipment that it was not convict-produced.

Must Put Up Bond

The importer is required either to put up cash or file a bond equivalent to the domestic value of the cargo for its return to customs custody if the commissioner decides convict labor was employed at any stage in producing the merchandise, or if the importer fails to submit within 3 months of date of entry a certificate of origin with affidavits. Such affidavits must be sworn before an American consul, or if the place is too remote from a consulate, then under an oath or affirmation. A similar affidavit is required of the ultimate consignee, who ordinarily would be the American purchaser.

In the absence of a general finding by the Commissioner of Customs that convict labor is used in any locality, any collector of customs is required to report to the commissioner the importation of any merchandise originating in a country where he has reason to believe convict labor is used to produce such merchandise. The collector must hold the shipment for instructions.

Bond is canceled or the merchandise released if the commissioner's decision favors admissibility and the certificates of origin are submitted within the prescribed period of 3 months. The importer can appeal to the courts.

The regulations are more drastic

than appears on their face, and the belief is expressed in official quarters in Washington that they seal the doom of Soviet trade in the United States. Doubt is now voiced that any surety company would file bond for the Amtorg to the amount required to cover the value of incoming Soviet cargoes which run into millions of dollars, or that an American firm would take a chance on swearing to an affidavit that may be shown to be false simply by a decision from the Commissioner of Customs.

It seems apparent that little evidence will be required to convince the Treasury Department that lumber, pulpwood, coal, perhaps wheat, or other commodities are produced in various localities in Russia by convict labor. Manganese appears to be the only exception that the Department now is willing to make and that is involved in a pending investigation under the anti-dumping law. Data culled from Soviet publications, from the reports of consuls in adjacent countries, indeed from any source whatever, will be submitted without undue delay by subordinates in the Customs Bureau for a finding that convict labor is used, but nobody knows just when such findings will be issued.

Exiles Are Included

The regulations do not define what a convict is, but doubtless the dictionary's definition as "one found guilty or undergoing punishment for crime" will be interpreted as meaning the Soviet worker who because of alleged utterances against the government has been exiled to the Siberian forests to cut lumber.

Neither do the regulations define what is meant by "mined, produced, or manufactured." The Treasury's ruling, for example, pulpwood cut by free labor and hauled by convict labor, but as including pulpwood cut by free labor, hauled by convict labor and subsequently sawed by free labor.

The Treasury Department's ruling is regarded in Washington as positive evidence that the administration's policy with respect to Soviet trade has

finally taken shape. Most business interests are reserving judgment, are awaiting a definition of terms, reaction from large companies who bought last year \$30,000,000 worth of Soviet products, and from others who sold Russia \$150,000,000 of manufactured goods. If the move is definitely planned to discriminate against Russian trade, Moscow has a counter-act. A decree was passed Oct. 20 by the Soviets restricting to no absolute minimum all trade with countries discriminating against the Soviets.

Meanwhile the National Lumber Manufacturers Association has filed with the Commissioner of Customs a complaint seeking judgment under the new regulations against all future shipments of goods, when one shipment has been proved convict made.

ENGINEERING SOCIETIES EMPLOYMENT SERVICE

Further information regarding positions listed in this column is obtainable from Newton D. Cook, Room 715, 57 Post Street, San Francisco. (Phone Sutter 1694).

R-3429-S PRODUCTION MANAGER, for a company operating several scattered plants in California. The processes are comparatively simple and emphasis is laid upon ability to handle men for efficient results rather than upon technical ability. Salary depends upon experience and ability. Apply by letter. Headquarters, San Francisco.

R-3432-S SALESMAN, with some technical training and experience which must include sales or application of valves and pipe fittings. Acquaintance in the petroleum industry would be helpful. Salary open. Headquarters, San Francisco.

R-3303-S ENGINEER, between 28 and 35 years old, thoroughly versed in thermodynamics, heat exchange and heat transfer problems. Man with some oil refinery experience preferred. Permanent opportunity for right man. Apply by letter. Location, Northern California.

R-3421 SALES ENGINEER, preferably mechanical, with some experience in the paint industry, for machinery sales. Sales experience required. Salary open. Headquarters, San Francisco.

W-1348-C-S SPECIFICATION WRITER, should be well versed in machinery design and capable of preparing purchase specifications covering material used in engine department work aboard ships. This would include the main propelling machinery and the various auxiliaries installed in the engine room of a modern merchant vessel. Apply by letter. Location, East.

K-312-W-1367-C-S MECHANICAL ENGINEER, with good technical education, experienced in a variety of industrial safety problems, also in organization and public relations work. Apply only by letter. Salary, \$8000 a year. Location, New York and some travelling.

X-6900-S ELECTRICAL ENGINEER to design and sell transmission lines. Apply only by letter. Salary, \$5000 a year. Location, East.

K-332-W-2931-C-S PROFESSOR for school of industrial engineering at mid-western university, to teach various phases of printing. Must have had broad experience in printing and be acquainted with the printing industry. Position is likely to lead to development of research. Salary \$5000 a year. Apply by letter. Location, Middletown.

PREPARED PLANS— WITHOUT LICENSE— GOES WITHOUT FEE

Because C. S. Schwartz, building contractor, didn't keep up his correspondence he is going to lose a \$300 architect's fee, according to notice served on the independent School District in Castro Valley by District Attorney Earl Warren of Alameda County.

Schwartz, a building contractor but not a licensed architect, prepared plans for the Castro Valley School, but, as provided for in a state law governing the practice of architecture, he failed to serve written notice on the trustees of the district that he was not a licensed architect.

The State Board of Architectural Examiners, through its attorney, Alan C. Van Fleet, filed a protest with County Superintendent of Schools David Martin, who referred the matter to the district attorney.

Warren notified the school board that it can't pay Schwartz' fee, which would be six per cent of the total cost of the building, which was approximately \$5000.

SEEK TO LICENSE OREGON CONTRACTORS

The General Contractors' Association of Salem, Ore., has started a movement to secure the aid of contractors throughout the state in proposing to the next Legislature a bill for licensing contractors, similar to the California law.

F. Erixon, president of the association, has been authorized to appoint a legislative committee to confer with like committees in other sections of the state to consider introduction of the licensing bill at the next session of the Legislature.

Representatives of the building groups of other cities of Oregon will meet in Salem on December 15 to outline a definite program.

The proposed bill will be designed to provide that no contractor can do business in the state unless he has established his residence therein and can furnish qualifications as to his ability to undertake construction contracts.

STATE DIVISION HEAD PLANS ANTI-ALIEN MOVE

Measures designed to exclude alien labor from public works projects and to stabilize employment conditions in California are being prepared by Walter Mathewson, retiring chief of the state division of labor statistics, for presentation to the legislature this Winter.

The house defeated a bill to exclude alien labor from public works at the last session of the legislature after it has been passed by the senate.

In the new plan to stabilize employment, Mathewson and Arthur L. Johnson, attorney for the division, propose to enforce wage standards by regions so that there will not be discrepancies in the pay for identical work done in the same district by different contractors.

City Attorney Werner has informed the Los Angeles city council that it cannot legally set up a zone surrounding the civic center in which the architectural design of all buildings to be erected in the future would have to be submitted to the Municipal Art Commission for approval.

EDISON COMPANY TO EXPEND \$28,000,000 ON SYSTEM IN 1931

A construction budget in excess of \$28,000,000 for 1931 has been adopted by the Southern California Edison Company, Ltd., according to announcement of R. H. Eallard, president of the company. This budget is one of the largest in the company's history, he said. More than \$25,200,000 of the appropriation will be used for new construction. The remaining \$2,962,000 is allocated for reinforcements and extraordinary maintenance.

One of the largest items in the budget will provide for the installation of another turbine in the Edison steam station at Long Beach. This will have a capacity of 135,000 hp. and, together with facilities for providing a fuel supply will call for an expenditure of \$8,620,000.

For the completion next year of the new Edison building in Los Angeles, \$1,295,000 will be provided by the new budget. This building will be ready for occupancy in the spring of 1931.

For extension and improvement of the electrical distribution system, the new budget provides \$15,270,000, which will be used for the construction of new lines, building of new substations and general expenditures throughout the system.

The new capital required for this program will be provided through the sale of bonds and both preferred and common stocks. Following its general financial policy, the company plans to provide at least 20 per cent of the new capital requirements through the sale of common stock, the remainder being about equally divided between bonds and preferred stock.

GARRISON IS NAMED PUBLIC WORKS CHIEF

Colonel Walter E. Garrison of Lodi has been appointed State Director of Public Works to succeed Bert B. Meek. The appointment is announced by Governor-elect James Rolph.

Mr. Garrison is a native of Modesto, 54 years old and is engaged in farming. He operates one of the large vineyards at Lodi. The new director is a graduate of Modesto High School and the San Joaquin College.

During the World War, Garrison served overseas with the 363d Infantry of the Ninety-first division. He arose from the rank of captain to major during the war. Twice he was wounded in action and was awarded the French Croix de Guerre with a star for gallantry in action. He is executive officer of the 181st Brigade of the Ninety-first division.

WEBBER CONSTRUCTION CO. SUES HIGHWAY DEPARTMENT

A. W. Webber, an official of the Webber Construction Company, has filed suit in the superior court at Sacramento against the State of California, Bert B. Meek, director of the state department of public works, and F. L. Hazelwood, district state highway engineer, for \$268,201 damages.

The amount is claimed for construction work done by the company on the Redwood Highway in Humboldt County.

Webber alleges he was forced to move heavy rock crushing equipment several times during the construction and was not reimbursed by the state for the expense.

STATE PLUMBERS ELECT HILLIKER AT FRESNO CONVENTION

Gay Hilliker, Fresno plumbing inspector, was elected president of the Plumbing Inspector's Association of California during the closing session of a two-day convention in Fresno last Saturday. Fred N. Johnson of San Jose was elected vice-president of the northern division; Charles B. Bailey of Los Angeles, vice-president of the southern division, and Stephen I. Smoot, Los Angeles, state secretary.

Sacramento was chosen as the site of the next convention, which will be held in October.

The convention, the first of the organization since its inception, brought together in Fresno approximately 75 attendants from 25 cities of the state. The principal work of the session rested in further organization and adoption of a uniform building code, which will be based upon the United States Department of Commerce minimum plumbing code. It was expected that a rough draft of the code would be adopted within a few months.

MECHANICAL ENGINEERS MOVE TO STABILIZE EMPLOYMENT

Engineering skill was massed for an attack on unemployment last Wednesday in New York at a conference on stabilization of employment in industry, held in connection with the annual meeting of the American Society of Mechanical Engineers.

The society already has pledged its active aid to President Hoover's emergency employment committee.

A guaranteed employment plan put into effect in 1922 by the Procter & Gamble Company of Ivorydale, Ohio, under which not one of the 10,000 employees of the plant were laid off in the last twelve months, despite a 10 to 15 per cent reduction in business, was described by Harvey C. Knowles, general superintendent of the company. Dr. Royal S. Meeker of New Haven, Conn., suggested "three major policies which may be inaugurated at once for the amelioration and prevention of unemployment." They are:

"1. Planning production to meet the estimated requirements of consumption.

"2. Stabilizing the general price level. That is, the buying power of money.

"3. Providing carefully planned, all-inclusive unemployment insurance to prevent unemployment, as well as to care for the unemployed."

The City of Paris and the Republic of France have both turned landlords and are busy constructing imposing new apartment houses in and around Paris.

Before 1935 it is estimated that nearly 100,000 new apartments will be completed, but already experts are predicting that the housing crisis will be just as bad. Apartments in Paris are at a premium.

Under a law sponsored by Louis Loucheur 5651 apartments comprising 2, 3, 4 and 5 rooms were placed under construction and will be ready for occupancy at the end of next year. Before the Loucheur law went into effect the various departments of the City of Paris had already started construction on 17,833 apartments which are now being finished and occupied.

In all it is estimated there are 55,000 apartments now under construction either by the City or the State, and another 45,000 will be started soon. The majority of these are apartments of two and three rooms rented at low prices to laborers.

STATE HIGHWAY COMMISSION ADOPTS \$35,703,000 PROGRAM

Acting upon the recommendations of P. B. Meek, State Director of Public Works, the State Highway Commission has adopted a two-year highway construction and reconstruction program involving the expenditure of \$35,703,000.

The program will be submitted to Governor Young and made a part of his message to the 1931 Legislature.

Within a week or two the commission is expected to make public the amount of money allocated to each road project in the various counties of the State.

The allocation is now being worked out in accordance with the provisions of the Breed bill, both as to the division of funds as between the north and the south and as to their distribution between primary and secondary roads in the State system.

It was explained that the \$35,703,000 which the commission would spend in highway projects during the next biennial period will be made up of revenues from the gasoline tax, motor vehicle registration fees, highway transportation taxes and Federal aid appropriations.

In a statement given out with the highway budget total, Meek warned against disturbing or impairing the present highway financial setup.

"Danger to the State highway program through impairment of revenues looms chiefly from five sources," said Meek.

"First, the suggestion that gasoline taxes be diverted to other than highway uses.

"Second, the suggestion that major allotments of present revenues be made to improve and maintain through travel streets in cities of the State larger than the village class. To undertake this would take at least \$125,000,000 and would obviously com-

pletely wreck the State highway program.

"Third, the suggestion that there be a still larger division of highway funds for the elimination of railroad grade crossings on the State system. At the present time wonderful progress is being made on this problem and in a few years all of the most dangerous grade crossings on the State highway system will be a thing of the past.

"Fourth, the inclusion in the secondary State highway system of roads not in the recommended list. This would increase mileage, to the point that not only construction funds but maintenance moneys needed for the present State highways would be seriously endangered.

"Fifth, the enlarging of the joint highway district program."

Meek said studies reveal that \$313,563,906 will be required to meet the costs of the State highway building program during the next ten years. The estimate of revenue available for highway purposes during this period, July 1, 1931 to June 30, 1940, is \$422,015,300.

"Given assurance of the continuance of present revenues," said Meek, "California in a few years' time should have a system of highways unequaled anywhere in the world. This can be accomplished without increasing the present source of revenue.

"The motorists realize there is no surplus of highway revenue when the traffic and safety needs of the system are considered. And they will not allow the orderly construction of the system to be interfered with, or the proper maintenance of the roads to be jeopardized by diverting to other uses the revenue that now goes to the State system, however great the temptation may be, or how worthy the particular cause."

cedure is in doubt or where opposition is expected some degree of secrecy is necessary in using the system. But it is the inherent unsoundness of the practice even more than the backstairs methods of applying it that condemns it as opposed to the welfare of contracting. Any agreement on one or more items of a bid and any possibility of collusion and price fixing strikes at the heart of the principle of competitive bidding. It will be recalled that the bridge pooling of former days, first designed to cut down the expense of bidding, developed into a price-fixing and contract-assigning system and was eventually broken up.

Engineers have a right, moreover, to suspect that under a fee system many "complimentary" bids will be submitted merely to collect the estimating fee. Realizing this possibility, the A. G. C. chapter leaves it to the honor of the contractor submitting a complimentary bid to reveal the fact and refuse to participate in the distribution of fees. On the whole, however, it seems more than likely that, should the practice get well established, the fees would naturally rise to a point where bidding would become a profitable business.

If general contractors think that they should receive special consideration for submitting bids, why do they not propose to recompense subcontractors and material men for their share in preparing the total bid? They have not done so, yet the expense and trouble of submitting sub-bids is relatively as great as that of the general contractor. Obviously, such a detailed, though just, scheme would be wholly impracticable. The leaders in the contracting industry realize that the close cooperation with subcontractors and material men is vital to the welfare of the industry, and are working to this end; is it not foolish, then, to set up a practice that threatens to break down such cooperation?

Organized contracting has long sought to improve the contracting industry; to bring it into repute in the eyes of engineers, architects and the public; to establish more cordial relations among all concerned in the disjointed business of construction; and to establish the contract system in the place of day labor work. It has succeeded admirably in this purpose, and should oppose any system that threatens the results of its efforts. The monetary gain of charging fees for bidding falls far short of paying for the loss of public respect and confidence. We look to organized contracting to stop this practice before outside action compels its abandonment.

While other holdings declined, and, in some cases, vanished in 1930, the total assessed value of real estate in twelve American cities climbed to modest heights, says the National Association of Real Estate Boards.

Even though increased assessed values mean higher taxes, such rises make a good case for rent investment, says the Association, because realty transactions continue to be recorded from day to day, and owners are taking their profits while other fields are stagnant. And in places where real estate activity is slow, these values will be there when markets are resumed.

In eleven cities the assessed values on land and buildings increased by \$138,129,538 in the year between 1929 and 1930. These include St. Louis, Mo., Minneapolis, Greenfield, Mass., Athens, Ga., Wausau, Wis., Dallas, Texas, Kansas City, Mo., Bellingham, Wash., Philadelphia, Pa., New Orleans and Boston. The twelfth city is New York City with an increase of \$1,069,613,962.

A. G. C. "UNIT" CITED FOR CHARGING FEES FOR BIDDING

(Editorial in Engineering News-Record, New York)

The cost of preparing a bid is an inseparable part of a contractor's expense in conducting his business, and is taken care of in the overhead item of every bid he submits. If the practice of charging fees for bidding, as established by several groups of contractors in the South, becomes a recognized element of contracting, and if it will surely undermine the confidence and trust in contracting now held by engineers, architects and the public. Such practice penalizes the owner and increases the cost of construction; it is unjustified and unsound. The cost of preparing bids is part of the cost of selling construction service, and is no more entitled to special reimbursement than the selling cost of every other competitive business.

Designed to compensate unsuccessful bidders on competitive bidding projects for their time and expense in preparing estimates which do not result in procuring a contract, the plan is operated as follows: subject to local variations: On each competitive construction job some official of the branch of the Associated General Contractors in whose jurisdiction the work will come ascertain the names of all general contractors bidding on the job. From the engineer's estimate, if available, or by consultation with at least three bidders, this same

official determines the amount of the average bid. Each bidder is then instructed to add to his bid an amount for estimating cost (taken from a standard table and averaging \$100 per \$100,000 bid) multiplied by the number of bidders participating. Each bidder agrees that if he secures the work the added amount will be turned over to the A. G. C. when the first payment on the work is made by the owner. At this latter time the A. G. C. remits to each unsuccessful bidder his portion of the fund, and keeps the successful bidder's share as a fee for handling the transaction. Sometimes, however, the fees are distributed to only a certain number or certain percentage of low bidders, on the theory that the high bidders do not deserve to be reimbursed.

It will be noted that the successful bidder receives no share. Therefore each bidder knows that he must add his cost of estimating to the overhead item in his bid. Thus the owner is already paying for this particular contractor's bidding service and in addition is assessed a surcharge to cover the cost of service of the unsuccessful bidders. It is obvious that the plan operates to penalize the owner.

Ostensibly the owner, the engineer and the architect are aware that the practice is being applied to their job. In cases where the legality of the pro-

A. G. C. TO INSTALL CHIEFS AT S. F. MEET

Nomination of Albert P. Greensfelder, of St. Louis, and William A. Starrett of New York, as president and vice president at large, respectively, of the Associated General Contractors of America for the year 1931, was announced following a special meeting of the nominating committee at the association's national headquarters at Washington last week.

The nominations, which are tantamount to election, will be officially acted upon at the 12th annual convention of the association which is to be held during the week of January 25, at San Francisco.

Both Mr. Greensfelder and Mr. Starrett have been nationally prominent figures in the construction world for more than a score of years and have personally supervised some of the largest construction projects of that period.

They will succeed Anton E. Horst, of Philadelphia, and James E. Cashman, of Burlington, Vt., incumbent president and vice president, respectively, who after having received the signal honor of being nominated to succeed themselves at the fall meeting of the association's executive board, at Rye, N. Y., were obliged to withdraw their names because of the pressure of their private business affairs.

Mr. Greensfelder, who is a graduate of Washington University, started his career in 1901 as an engineer on construction of the Interurban Railway, Kansas, and from 1902 to 1905 was assistant to the engineer of the Terminal Railroad Association of St. Louis on the design and construction of railroad terminal facilities for the St. Louis district prior and subsequent to the St. Louis World's Fair. Since 1906 he has been construction superintendent of the Fruin-Colton Contracting Co., general contractors of St. Louis of which company he was made secretary in 1908 and president in 1927.

Mr. Greensfelder is at present vice chairman of the construction division of the American Society of Civil Engineers; a member of the international relations committee of the Associated General Contractors of America, of which organization he was vice president at large in 1923; and vice governor of the Regional Planning Federation of the St. Louis District. He is also a past president of the American Society of Engineering Contractors and the Engineers' Club of St. Louis.

Mr. Starrett, who is an alumnus of the University of Michigan, in 1901 joined with his brothers in the formation of the now nationally known firm of Thompson-Starrett Company and three years later, when only 27 years of age, was placed in charge of the building of the monumental Union Station at Washington, D. C. Upon completion of this project he was made general superintendent and vice president of the company, in which position he continued until 1913 when he joined as a member in the formation of Starrett & Van Vleck, architects.

At the outbreak of the World War, Mr. Starrett was called into service as Major of Engineers and assigned to duty as chairman of the emergency construction section of the War Industries Board. He was promoted to the rank of Colonel in March 1918.

Following the War Mr. Starrett was made vice president of the George A. Fuller Company and was sent to Japan where he introduced several modern steel frame buildings especially designed to resist earthquake. He subsequently was instrumental in the formation of Starrett Brothers, Inc., Starrett Prothers & Eken, Inc., and

The Starrett Corp., of which he is president. He is a registered professional engineer and architect and a member of the American Institute of Architects, the American Society of Civil Engineers, the American Society of Mechanical Engineers and the American Society of Military Engineers.

LOW BIDDER NOT ALWAYS BEST BIDDER

We know from unfortunate experience more than from any other source that the lowest bidder is not necessarily the most responsible, hence the insertion of those two adjectives into the acceptance clause of a proposal form must be at all times carefully considered and not regarded as mere official phraseology, says the Journal of Commerce. Action in this respect, furthermore, should be cautiously made a part of legislation, at least as far as public building projects are concerned.

The history of contracts being awarded to bidders who are patently unqualified repeats itself too frequently. It goes without saying that one disastrous result is that legitimate constructors are thus deprived of work which they are well qualified to handle and which would give to the taxpayers far greater satisfaction and monetary saving.

There is a case on record of a important road job, the contract for which was placed with bidders who were unknown, and apparently inexperienced, but whose figure was about \$25,000 lower than the average of bids on the \$110,000 project. There was no question of securing bond. The contract was signed, and the work begun. But after a while obstacles blocked the builders' path and a day came when work was halted altogether. Winter was around the corner. Finally the bonding company was ordered to complete the job, but severe cold and frequent snows made their task an impossibility. The farmers in the vicinity were the greatest sufferers. For several months of bitter cold they were forced to haul their products through old roads and detours almost impassable, and in the end they found that their increased costs in these temporary transportation methods vastly outstripped the amount of the bond issue of a highway which should ordinarily have been finished in the early fall.

In every lesson of loss there is a moral. Theoretically, at least, when a constructor loses money all parties concerned in the project lose. In practice the process has been proved countless times.

A. M. HUNT, NOTED ENGINEER, PASSES

A. M. Hunt, 71, electrical and mechanical engineer, died in a Berkeley hospital last Monday following a brief illness.

Mr. Hunt divided his time between the Bay Region and New York City, and made his home in Berkeley with his brother, Philip M. Hunt.

He was well known both on the Pacific Coast and in the East, as many important engineering projects came under his supervision.

A graduate of the U. S. Naval Academy at Annapolis in 1879, he was active for several years as an engineering officer in the Navy, later to be loaned by the Government to San Francisco to become chief engineer of the Mechanical Arts Building of the Mid-Winter Fair in 1894.

Later he established his own offices in San Francisco and became of great value to the engineering profession as a consulting engineer. In 1904 he founded the firm of Hunt, Mirk & Co. in San Francisco, which is still active in the design and construction of some of the West's largest steam power plants.

In 1917 Mr. Hunt was appointed with other noted men of science on the U. S. Naval Consulting Board and served in an important capacity at Washington, D. C., during the World War. During 1921 and 1922 he was vice president of the American Society of Civil Engineers and was also a member of the National Mechanical, Electrical & Chemical Engineering Societies.

Mr. Hunt was a native of Sioux City, Iowa, and is survived by two brothers, Philip M. Hunt and James M. Hunt of Berkeley.

BUSINESS OPPORTUNITIES

Names and addresses of persons or firms concerned in these opportunities will be furnished on request to Business Opportunity Department, Daily Pacific Builder, 547 Mission St., San Francisco, or phone Garfield 8744:

20666—Hardware and Tools. Hamburg Germany. A manufacturing exporter of hardware and tools is anxious to extend operations to the United States.

20667—Slate. San Francisco. Firm is desirous of obtaining list of principal firms in this locality interested in the importation of slate from Italy.

20668—Bauxite Ore. San Francisco. Italian manufacturers of bauxite ore and products thereof are interested in offering product known as bauxitemastic used in paving roads in order to prevent skidding of automobiles in wet weather.

20669—Agency. New York City. A well-known German manufacturer of polished zinc, steel, tin and brass sheets and steel strips desires to have a reliable agency for his products on the Pacific Coast.

20670—Representation. San Francisco. A German manufacturer of China wishes local representation.

20673—Advertising Light Apparatus. San Francisco. A Czechoslovakian inventor of an advertising light apparatus, with changeable pictures and movable inscriptions, intends selling his patent rights, and wishes to get in touch with interested parties.

20684—Chinese Woolen Carpets. Buenos Aires, Argentina. Firm is interested in contacting exporters of Chinese woolen carpets brought in from China and chemically cleaned in the United States.

20688—Representation. Atlanta, Ga. Party contemplating trip around the world wishes to be put in touch with firms planning an expansion program of international scope, or any who desire specific information regarding certain localities.

Miss St. John, Universal Products Co., 557 Market St., San Francisco, desires to secure responsible selling agents or representatives for California and Washington for newly patented household article.

H. S. Waller, 814 California St., San Francisco, desires to represent local manufacturers or importers of household products in New York trading area, to be sold to jobbers and large retailers. Arrangements on commission basis looking toward exclusive territorial rights.

Building News Section

APARTMENTS

Plans Being Prepared.

APARTMENTS Cost, \$40,000
OAKLAND, Alameda Co., Cal. Lake Merritt District.

Three-story wood frame apartments with concrete basement (12 2-rm and 12 3-room apts.)

Owner—Withheld.
Plans by L. F. Hyde, 372 Hanover St., Oakland.

More information will be given shortly.

Sub-Bids Being Taken.

APARTMENTS Cost, \$40,000
OAKLAND, Alameda Co., Cal. W Sixth Ave 150 N E-18th St.

Three-story wood frame and stucco apartments with reinforced concrete basement (12 two-room and 12 3-room apts.)

Owner and Builder—M. Elgarten, 174 41st St., Oakland.

Plans by L. F. Hyde, 372 Hanover St., Oakland.

Sub-Bids Being Taken.

APARTMENTS Cost, \$70,000
SAN FRANCISCO. Corner Cervantes and Prado Streets.

Three-story and basement frame and stucco apartments (21 2- and 3-room apts.; composition roof, steam heat and hot water system, elevator).

Owner & Builder—Ben Leibman, 1555 Francisco Street.

Architect—Irvine & Ebbets, Cal Bldg.

December 8, 1930

To Be Done By Day's Work By Owner
APARTMENTS Cost, \$400,000
LOS ANGELES, Cal. 401 N Rossmore Avenue.

Thirteen-story class A reinf. concrete apartments (135x150-ft.)

Owner and Builder—Harry Feigenbaum, Union Bank Bldg., L. A.
Architect—Max Maltzman, Union B'nk Bldg., Los Angeles.

Financing arrangements have been made.

Sub-Figures Being Taken.

APARTMENTS Cost, \$175,000
SAN FRANCISCO. N Jackson Street E Gough.

Six-story and basement class C concrete apartments (26 apts.)

Owner and Builder—E. Jose, 251 Kearny Street.

Architect—H. C. Baumann 251 Kearny Street.

Plans Being Revised.

APARTMENTS Cost, \$250,000
VALLEJO, Solano Co., Cal. Sonoma and Capitol Sts.

Six-story and basement class C concrete apartments (60x132-ft.; 72 2- and 4-room apts.; tile roof).

Owner—Er. Burton Jones, 327 Georgia St., Vallejo.

Plans by A. J. Mazurette, 576 Fifth St., Oakland.

Awards will be made in about ten days.

Plans Being Completed.

ALTERATIONS Cost, \$—
SAN FRANCISCO. 499 Buena Vista Avenue.

Alter residence for apartments.
Owner—Mrs. J. A. Wilcox, 499 Buena Vista Ave.

Architect—Henry H. Gutterson, 526

Powell Street.

Bids will be called for shortly.

Contract Awarded.

APARTMENTS Cost, \$125,000
SAN FRANCISCO. S Broadway 187 E Webster St.

Seven-story and basement Class A apartments (7 apts.)

Owner—Wm. Helbling Sr., 1310 Lombard St., San Francisco.

Architect—H. S. Helbing, 1310 Lombard St., San Francisco.

Contractor—The Helbing Co., 1310 Broadway, San Francisco.

Segregated Bids Being Taken.

APARTMENTS Cost, \$250,000
SAN MATEO, San Mateo Co., Cal. Location Withheld.

Six-story and basement Class C steel frame, brick and concrete apartments (21 2, 3, 4, 5, 6, 7 and 8-room apts.)

Owner—Withheld.

Architect—Willis Lowe, 354 Hobart St., Oakland.

Owner Taking Segregated Bids.

APARTMENTS Cost, \$50,000
BURLINGAME, San Mateo Co., Cal. El Camino Real (44x92 ft.)

Three-story frame and stucco apartments with reinforced concrete basement (15 2- and 3-room apts.)

Owner—R. Noble, 427 8th Ave., San Francisco.

Architect—Chester Treichel, American Bldg., Oakland.

Plans Being Figured.

APARTMENTS Cost, \$16,000
SAN FRANCISCO. SE Army and Alabama Streets.

Two-story and basement frame and stucco apartments (4 apts.)

Architect—G. A. Berger, 309 Valencia St., San Francisco.

Plans Being Revised.

APARTMENTS Cost, \$15,000
BURLINGAME, San Mateo Co., Cal. Eroadway near California Drive.

One-story and mezzanine floor reinforced concrete apts. and stores.

Owner—Peter Lemperopolis.
Architect—Russell Coleman, 1404 Broadway, Burlingame.

New bids will be taken in about one week.

SKILSAW Portable Electric Hand Saws (4 models).

SKILSAW Portable Electric Sander

SKILSAW Radial Arm Attachments.

SYNTRON Portable Electric Hammers (4 models, motorless).

MALL Flexible Shaft Machines (50 models).

Electric Drills, Grinders, Buffers, Routers, Lock Mortisers.

PETER H. NELSON

Labor Saving Portable Electric Tools.

1248 Mission St. UNDERHILL

San Francisco 7662

SALES . SERVICE . RENTALS

BONDS

SAUSALITO, Marin Co., Cal.—Sausalito School District contemplates bond issue for \$24,000 to finance playground improvements.

STOCKTON, San Joaquin Co., Cal.—Trustees of the Iron House and Knights School Districts propose to combine the two districts in the formation of a union district following which a bond election will be called to secure funds to finance erection of a school to serve both districts. The new structure will cost from \$20,000 to \$40,000, according to tentative estimates.

SALINAS, Monterey Co., Cal.—Until January 5, bids will be received by C. F. Joy, county clerk, for the purchase of the \$1,000 bond issue of the Tuimcritos School District; proceeds of the sale to finance school improvements.

SAN MATEO, San Mateo Co., Cal.—Trustees of the San Mateo Union High School District contemplate a bond issue for approximately \$300,000 to finance needed school improvements. Tentative proposals provide for:

San Bruno—Erection of a small unit of the promised high school.
Burlingame—Additional or separate building for cafeteria, music and cooking rooms; cement floor and new interior in the girls' locker room, library room and other repairs; equipment for additional or new building, and the purchase of land at the rear of the school to square off the present tract and to make room for necessary expansion.

San Mateo—New auditorium, seats, stage and other equipment for the auditorium; new boiler unit to heat auditorium; complete gymnasium; turf athletic field, bleachers and fence; improvement of grounds, and tennis courts and enclosure.

It is pointed out that the conversion of the present inadequate cafeteria kitchen and music rooms at the Burlingame plant would give additional capacity for recitation rooms to the extent of about 100 pupils.

FRESNO, Fresno Co., Cal.—To relieve unemployment and to provide needed buildings the Fresno city commissioners are considering a bond election to be called in April to vote bonds of \$5,000,000 to finance erection of a new city hall, a new public library, civic auditorium, street openings and widenings, city jail, replacement of obsolete fire department and police department equipment.

SALINAS, Monterey Co., Cal.—Election will be held December 23, in the El Sausal School District to vote bonds of \$9000 to finance school improvements. Trustees of the district are: H. Ruggles, C. A. Lee and R. W. Adcock.

REDDING, Shasta Co., Cal.—By a vote of 34 to 1 the Burney School District has voted bonds of \$7000 to finance erection of a new school.

CHURCHES

Plans Being Completed
CHURCH Cost, \$40,000
SAN MATEO, San Mateo Co., Calif.
 San Mateo Drive.
 One-story frame and stucco church
 with tile roof (auditorium to seat
 350.)

Owner—First Congregational Church
 Architect—Kent & Hlass, 525 Market
 St., San Francisco.
 Present organ is to be used.

Contract Awarded.
CHURCH Cost, \$—
EUREKA, Humboldt Co., Cal.
 One-story redwood church (Colonial
 type).
 Owner—First Methodist Church.
 Architect—Rollin S. Tuttle, Box C,
 Los Gatos.
 Contractor—Mercer Fraser Co., 2nd
 and Commercial Sts., Eureka.
 Contract awarded on cost-plus basis

Preparing Plans.
CHURCH Cost, \$—
SANTA MONICA, Los Angeles Co.,
 Cal. NE Tenth and California Sts.
 Two-story and basement frame and
 stucco church (100x150-ft.; to seat
 725).
 Owner—Trinity Baptist Church (Rev.
 F. W. Hatch, pastor).
 Architect—Robert H. Orr, Corporation
 Bldg., Los Angeles.

Plans Being Figured—Bids Close Dec.
 29, 11 A. M.
CHAPEL \$40,000 Appropriated
SAN FRANCISCO, Presidio Reserva-
 tion.
 Two-story reinforced concrete chapel,
 (70x47 ft., seating 200; Mission
 style (Sunday school in basement))
 Owner—United States Government.
 Architect—Constructing Quartermas-
 ter, Fort Mason.
 Tile roof, cast artificial stone and
 terra cotta front, artificial tile floors,
 hot air fan system, oil burners, oil
 tanks, motor and outlet for organ, 3
 lavatories, acoustical plaster interior,
 Spanish Mission texture. Organ not
 included in general contract.

Plans Being Figured.
CHURCH Cost, \$70,000
OAKLAND, Alameda Co., Cal. Emers-
 on and Excelsior Aves.
 Reinforced concrete church.
 Owner—Roman Catholic Archbishop of
 San Francisco, 1100 Franklin St.,
 San Francisco.
 Architect—W. E. Schirmer, 700 21st
 St., Oakland.

FACTORIES AND WARE- HOUSES

Sub-Bids Being Taken.
LAUNDRY Cost, \$10,000
BERESFORD, San Mateo Co., Calif.
 39th and El Camino Real.
 One-story frame and stucco laundry.
 Owner—United States Laundry, Beres-
 ford.
 Architect—Edwards and Schary 525
 Market St., San Francisco.
 Contractor—John Daley, 1104 Vancou-
 ver, Burlingame.

MOSS LANDING, Monterey Co.,
 Cal.—Union Oil Co. has taken an
 option on a tract of land at Moss Land-
 ing on which it proposed to establish
 a storage and distributing plant sim-
 ilar to that already established by the
 Standard Oil Company.

Plans Being Figured.
ADDITION Cost, \$—
SAN FRANCISCO, 13th and Carolina
 Streets.
 Wood and structural steel addition to
 factory.

Owner—Kaiser Paving Co., 74 N E
 Montgomery St.
 Engineer—L. H. Nishkian, 525 Mar-
 ket Street.

Plans Being Figured—Bids Close Dec
 16th.
ASSEMBLY PLANT Cost, \$3,000,000
SEATTLE, Wash. E Marginal Way.
 Motor car assembly plant.
 Owner—Ford Motor Co., Detroit.
 Architect—Albert Kahn, Inc., Detroit.
 Bids for the steel work have been
 received and are now under advisement.
 Assembly plant will be one and
 two-story "L" shaped structure, con-
 taining over 10 acres of floor area,
 covering a site 850 ft. long by 320 ft.
 deep. The wing, a part of the main
 plant, but which will be used for
 warehouse and storage purposes, will
 be 500x100 ft., one-story in height,
 while the two-story portion will be
 700x120 ft.

Contract Awarded.
FACTORY Cost, \$—
OAKLAND, Alameda Co., Cal. Foot-
 hill Blvd. and 163rd Ave.
 One-story brick factory (60x108-ft.)
 Owner—Wurm Woven Hosiery Mills,
 J. W. Tilley, Mgr., 414 13th St.,
 Oakland.
 Plans by Owner.
 Contractor—Drew Caminetti, 2312 21st
 Ave., Oakland.

Plans To Be Prepared.
SHOP BLDG. Cost approx. \$25,000
OAKLAND, Alameda Co., Cal. 52nd
 Ave. and E 10th St.
 Maintenance shop building.
 Owner—City of Oakland School Dist.
 Architect—Not Selected.

Plans Being Completed.
FACTORY Cost, \$70,000
OAKLAND, Alameda Co., Cal. Eighty-
 first Avenue near 14th St.
 One-story reinforced concrete factory.
 Owner—Blue Bird Potato Chips, Inc.,
 68th Ave. and Beck St., Oakland.
 Architect—Charles W. McCall, 1404
 Franklin St., Oakland.
 Bids will be taken in two or three
 weeks.

Sub-Contracts Awarded.
FOUNDRY Cost, \$12,500
OAKLAND, Alameda Co., Cal. No.
 1919 Peralta St.
 One-story steel foundry and machine
 shop.
 Owner—F. L. De Sanno, 4437 E-10th
 St., Oakland.
 Architect—Not Given.
 Contractor—R. C. Porter & Co., 356
 Adeline St., Oakland.
 Masonry—E. E. Dooley, 4122 Redding
 St., Oakland.

Plumbing—George A. Schuster, 4712
 Grove St., Oakland.
Structural Steel—Bethlehem Steel Co.,
 215 Market St., San Francisco.
Reinforcing Steel—Geo. R. Bormann,
 Grove and Fourth Sts., Oakland.
 Carpentry, structural steel and roof-
 ing will be performed by contractor.

Sub-Bids Being Taken.
ADDITION Cost, \$12,000
BERKELEY, Alameda Co., Cal. 2029
 Channing Way.
 One-story and basement concrete and
 brick addition to bakery (struc-
 tural steel, steel sash, etc.)
 Owner—Langendorf United Bakeries,
 Inc., 2029 Channing Way, Berke-
 ley.
 Engineer—Ellison & Russell, Pacific
 Bldg., San Francisco.
 Contractor—Barrett & Hilp, 918 Har-
 rison St., San Francisco.
 A set of plans are on file in the
 Oakland Builders' Exchange.

SACRAMENTO, Cal.—State Legis-
 lature will be asked to appropriate
 \$85,000 in the 1931-33 budget to fi-
 nance construction of an annex to the
 State Printing Plant at Sacramento.
 Property facing O St. has already
 been purchased for the annex which
 will house press rooms and storage
 quarters.

Wood Roof Truss Contract Awarded.
SHOP & OFFICES Cost, \$6500
OAKLAND, Alameda Co., Cal. Tenth
 and High Sts.

One-story frame and stucco shop and
 offices.

Owner—H. C. Hoyt, 10th and High
 Sts., Oakland.
 Plans by Eng. Dept. of Owner.
 Contractor—F. C. Stolte, 3455 Laguna
 Ave., Oakland.

Wood Roof Trusses—Summerbell
 Truss Co., 354 Hobart St., Oak-
 land.

Five 40-ft. wood roof trusses will be
 erected.

Contract Awarded—Plans Being Pre-
 pared.
MFG. BLDGS. Cost, \$200,000
RIPON, San Joaquin Co., Cal.
 Group of concrete, hollow tile, brick
 and corrugated iron manufactur-
 ing buildings (to manufacture
 evaporated milk).

Owner—Meyerberg, Inc., Solidad, Cal.
 Plans by—Eng. Dept. of Owner.
 Contractor—H. H. Larsen & Co., 64
 South Park, San Francisco.

There will be a pasteurizing plant,
 etc. It is expected to start construction
 about January 5.

New Bids To Be Taken Immediately.
SERVICE BLDG. Cost, \$45,000
REDWOOD CITY, San Mateo Co.,
 Calif.—Group of service buildings
 (wood frame and tile walls.)
 Owner—Pacific Gas & Electric Co.,
 245 Market St., San Francisco.

Plans by Eng. Dep. of Owner.
 Group includes warehouse, garage,
 service departments, superintendent's
 offices, etc.

FLATS

Contract Awarded.
FLATS Cost, \$16,000
SAN FRANCISCO, E Pierce St S
 Union St.
 Two-story and basement frame and
 stucco flats (two 7-room flats).
 Owner—C. J. Ferrari, 1344 Chestnut
 St., San Francisco.
 Architect—J. A. Porporato, 619 Wash-
 ington St., San Francisco.
 Contractor—Masarie & Cuneo, 1285
 Union St., San Francisco.

GARAGES AND SERVICE STATIONS

Contract Awarded—Sub - Bids Being
 Taken.
GARAGE Cost, \$20,000
MARTINEZ, Contra Costa Co., Cal.
 Ward St. E Alhambra.
 One-story brick and steel garage and
 show room (108x100-ft.)
 Owner—Dr. E. W. Merritham 736 Main
 St., Martinez.
 Architect—Not Given.
 Contractor—Wallace Snelgrove, 24th
 and Esmond, Richmond.

Plans Being Prepared.
GARAGE Cost, \$20,000
REDWOOD CITY, San Mateo Co.,
 Cal. Highway.
 One-story concrete garage.
 Owner—Withheld.
 Architect—John McCool, 381 Bush St.,
 San Francisco.
 It is indefinite at this time whether
 bids will be called for or not.

Plans Being Figured—Bids Close Dec. 15th.
SERVICE STATION Cost, \$9000
 COLMA, San Mateo Co., Cal.
 One-story concrete service station.
 Owner—Standard Oil Co., 225 Bush St., San Francisco.
 Plans by Eng. Dept. of Owner.

GOVERNMENT WORK AND SUPPLIES

RICHMOND, Contra Costa Co., Cal.—Until January 8, 3 P. M., bids will be received by U. S. Engineer Office, Customhouse, San Francisco, for furnishing about 81,000 tons of core rock and 18,000 tons of facing rock and building an extension to the training wall in Richmond Harbor. Specifications obtainable from above office.

MARE ISLAND, Cal.—Until December 23, 10 A. M., bids will be received by Bureau of Supplies and Accounts, Navy Department, Washington, D. C., to furnish engine order telegraph systems to Navy at Mare Island.

LIVERMORE, Cal.—Bids received by Supervising Superintendent of Construction, U. S. Veterans' Hospital, Palo Alto, for heating system repairs at Veterans' Hospital at Livermore have been rejected. Bids were opened October 6.

PALO ALTO, Santa Clara Co., Cal.—Standard Fence Co., 432 Bryant St., San Francisco, at \$297 submitted lowest bid to Supervising Superintendent of Construction, U. S. Veterans' Hospital, Palo Alto, for furnishing and installing 10 window guard rails for Building No. 205, at the U. S. Veterans' Hospital, Palo Alto.

Following is a complete list of bids:
 Standard Fence Co., S. F. \$397
 Monarch Iron Works, S. F. 418
 San Jose Iron Works, San Jose 452
 Michel & Pfeffer, San Francisco 532
 R. Hellwig Iron Works, San Jose 560
 West Coast Wire & Iron Works, San Francisco 576
 San Francisco Wire & Iron W'ks., San Francisco 645
 Industrial Ornamental Iron and Wire Works, Inc., S. F. 750
 Bids referred to Washington for award.

MONTEREY, Monterey Co., Cal.—Geo. C. DeGolyer, Federal Telegraph Bldg., Oakland at (a) \$1,750 (b) \$3,975 awarded contract by Quartermaster, Presidio, Monterey, for (a) extension of the water system and (b) the construction of the drainage system at the Presidio, Monterey.

Plans Being Figured—Bids Close Jan. 2, 10:30 A. M.

MESS HALL BLDGS Cost \$40,000
MONTEREY, Monterey Co., Cal.
 Presidio

Seven one-story frame mess hall buildings.
 Owner—United States Government.
 Plans by Construction Quartermaster, Presidio, Monterey.

Preparing Plans.
FEDERAL BLDG. Cost, \$200,000
EL CENTRO, Imperial Co., Cal.
 Class A federal building.
 Owner—United States Government
 Architect—Supervising Architect Jas. A. Wetmore, Treasury Dept., Washington, D. C.

SAN DIEGO, Cal.—Until 11 A. M., January 8, bids will be received by the Public Works Department of the Eleventh Naval District, San Diego for the construction of a physical instruction, gymnasium and welfare building at the Naval Operating Base (Air Station), San Diego, under specifica-

tion No. 6275. The work includes plain and reinforced concrete, brick and hollow tile work. Hidding data may be obtained from the Commandant, Headquarters, Eleventh Naval District, Foot of Broadway, San Diego, upon deposit of a check or postal money order for \$20, payable to the Chief of the Bureau of Yards and Docks, Captain DeWitt C. Webb, public works officer.

SAN FRANCISCO.—D. N. & E. Walter, 562 Mission St., at \$370.25 awarded contract by Constructing Quartermaster, Fort Mason, to furnish and install window shades in Wards Nos. 5, 22 and 24 at Letterman General Hospital.

SACRAMENTO, Cal.—See "Machinery and Equipment," this issue. Bids wanted by U. S. Engineer Office to furnish and deliver new motor driven air compressor.

SACRAMENTO, Cal.—Until December 15, 3 P. M., under Order No. 2749-1735, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver Rio Vista Solano County, a miscellaneous quantity of lumber. Specifications obtainable from above.

OAKLAND, Cal.—Congressman Albert E. Carter has advised the Oakland Chamber of Commerce that the Treasury Department has divided the construction of the proposed Oakland postoffice into two units to permit speedy erection. Bids will be asked shortly on the foundation work and upon the completion of working drawings bids will be called for the structure proper. The building is estimated to cost \$1,500,000.

SACRAMENTO, Cal.—Franks Contracting Co., 260 California St., San Francisco and Olympian Dredging Co., 249 First St., San Francisco, at \$119 submitted identical bids to U. S. Engineer Office, California Fruit Bldg., Sacramento, to raise existing levee along east and south boundaries of the Liberty Farms Project No. 2, located southerly of Yolanda Station on the Sacramento Northern Railroad, involving approximately 350,000 cubic yards.

SAN FRANCISCO.—Constructing Quartermaster, Fort Mason, is preparing plans for changing electric feeders at the Letterman General Hospital from 2-wire to 3-wire and install a 75-kw. transformer. Bids will be called for shortly.

SAN FRANCISCO.—Constructing Quartermaster, Fort Mason, is preparing plans for a two-stage turbine pump and additional valves at Fort Baker. Bids will be called for shortly.

WASHINGTON, D. C.—Bids are being received by Bureau of Supplies & Accounts, Navy Department, Washington, D. C., to furnish and deliver miscellaneous supplies and equipment as noted in the following schedule, further information being available from the Navy Department Officer, 100 Harrison St., San Francisco.
Bids Open Jan. 6

Hawthorne, Nevada, 1 greenhouse unit, sch. 4655.

Mare Island, 1 grab type motor-driven bucket, ½ cu. yd. capacity, sch. 4683.

Mare Island, 1 motor-driven foundry sand mixer, sch. 4684.

Mare Island, 2 post-10t squeezers molding machine, stationary type, with vibrators, sch. 4671.

Mare Island, 4 double wheel grinders, motor driven, sch. 4667.

Mare Island, 1 motor-driven core cutting off and coning machine, sch. 4677.

Mare Island, 2 motor-driven metal cutting saws, sch. 4676.

Mare Island, 2 individual tumbling mills, motor driven, sch. 4675.

Mare Island, 2 sand blast barrels, motor driven, sch. 4665.

Mare Island, 2 motor-driven sensitive bench drills, sch. 4669.

Puget Sound, 1 nonreversible pneumatic drill; Puget Sound, 16 scaling pneumatic hammers, sch. 4672.

Puget Sound, welded wrought iron pipe, sch. 4692.

Mare Island, 1 motor-driven radial drill, sch. 4666.

SACRAMENTO, Cal.—Until Dec. 16, 3 P. M., under Circular Proposal No. 31-164, Specifications No. 2731-1743, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish, deliver and place 5,000 tons rip-rap stone along the Sacramento river, between Marysville Slough and Bakers Point. Specifications and further information obtainable from the above.

SAN FRANCISCO.—Constructing Quartermaster, Fort Mason, is preparing plans for a central heating plant at Fort McDowell, consisting of three 100-hp. boilers, oil burners, underground distributing lines, pressure reducing valve and changing all hot water heating plants to steam. Bids will be asked for shortly.

SAN DIEGO, Cal.—Until 11 A. M., December 16, bids will be received by the Public Work Department of the Eleventh Naval District, San Diego, for renewal of insulation of cold storage room at the Naval Operating Base, San Diego, under specification No. 6367. The work will consist of replacing existing cork insulation on four walls and ceiling of the room, relocating of existing hangers and cold hangers, and miscellaneous work. No work is required on existing floor of the room. Bidding data may be obtained from the Commandant, Headquarters, Eleventh Naval District, San Diego, upon deposit of \$5. Captain DeWitt C. Webb, public works officer.

HALLS AND SOCIETY BUILDINGS

OAKLAND, Cal.—Until December 30, 10:30 A. M., bids will be received by George E. Gross, county clerk, to furnish and install furniture & equipment in Veterans' Memorial Building at Emeryville. Specifications obtainable from office of county clerk.

Plans Being Figured—Bids Close Dec. 19, 3 P. M.
MEMORIAL HALL Cost, \$10,000
LINCOLN, Placer Co., Cal.
 American Legion Memorial Hall.
 Owner—County of Placer
 Architect—Starks & Flanders, Forum Bldg., Sacramento
 Bids are being received at Lincoln by A. F. Fleming, county clerk.

TUOLUMNE, Tuolumne Co., Cal.—Petition has been presented to the supervisors requesting that body to allocate \$20,000 of the county memorial hall fund, amounting with this year's tax, to about \$40,000, for the building of a memorial hall in the town of Tuolumne. The county has already purchased the site for the proposed structure.

Completing Plans.
LODGE BLDG. Cost, \$110,000
LAS VEGAS, Nevada, Third and Fremont Sts.
 Two-story reinforced concrete store and lodge building (100x130 ft.).
 Owner—Las Vegas Masonic Lodge.
 Architect—Gilbert Stanley Underwood
 730 S-Los Angeles St., Los Angeles.

Bids Opened.
CLUB HOUSE Cost, \$15,000
STOCKTON, San Joaquin Co., Calif.
 Park St. bet. Madison and Commerce.
 One-story brick club house with tile roof (69x91-ft.).
 Owner—Knights of Pythias, Charter Oak Lodge No. 20.
 Architect—Victor Galbraith, Elks Bldg., Stockton.
 Low Bidder—T. E. Williamson, 1859 W Park Ave., Stockton.
 Other bidders as follows:
 George Roek, Stockton.
 John Hackman, Stockton.
 John Cavanaugh, Stockton.
 Bids under advisement. Contract will probably be awarded to low bidder.
 Steam heating plant, concrete and maple floors, steel sash.

Plumbing and Heating Bid Opening Postponed.
CLUB Cost, \$2,000,000
SAN FRANCISCO. Post Street and Mason Street.
 Twenty-six-story class A club bldg.
 Owner—Olympic Club, premises.
 Architects—John Bakewell, Arthur Brown, Jr., and John Bauer, associated, 251 Kearny St.
 Bids will be received up to Dec. 15, 12 noon, at the Olympic Club. No action will be taken on the general contract until after the opening of the mechanical and plumbing bids).
 As previously reported, following were the lowest bidders: General contract, K. E. Parker Co., 135 South Park, \$1,769,000; electrical work, H. S. Little Co., 85 Columbia Sq., \$133,375; steel, Pacific Coast Steel Co., 215 Market St., \$566,626; elevators, Otis Elevator Co., 1 Beach St., \$164,430.

Steel frame and concrete construction, brick and terra cotta trim, granite base, marble, hardwood finish, six passenger elevators, two freight elevators, 1 special elevator, elevators for garage, sidewalk elevators, steam heat and oil burning system, tile roofing.

HOSPITALS

Commissioned To Prepare Plans.
ADDITION Cost, \$50,000
AUBURN, Placer Co., Cal.
 New wing addition to hospital.
 Owner—County of Placer.
 Architect—W. H. Hecker, 111 Sutter St., San Francisco.

Site Purchased—Plans To Be Prepared.
SANITARIUM Cost, \$—
SANTA ROSA, Sonoma Co., Cal. Alpine Valley.
 Tubercular Sanitarium.
 Owner—County of Sonoma, Geo. Sanborn, county clerk.
 Architect—To Be Selected.
 County supervisors have just completed negotiations for the purchase of the 195-acre Gemmet Ranch in Alpine Valley on which to erect the new structure in addition to remodeling buildings on the land for sanitarium needs.

Preparing Working Drawings.
INSTITUTE BLDG. Cost, \$400,000
SAN FRANCISCO.
 Class A reinforced concrete psychopathic institute building.
 Owner—City and County of San Francisco.

Architect—Alfred I. Coffey and Martin J. Rist, Associated, Phelan Bldg., San Francisco.

Bids To Be Taken In One Week.
HOSPITAL Cost, \$50,000
YUBA CITY, Sutter Co., Calif. NE
 Plumas and Alturas Sts.
 One-story brick and stucco hospital (24 to 30 bed capacity).
 Owner—A. A. King, Sacramento.
 Architect—Homer B. A. Pratt, 4643 T St., Sacramento.

LOS ANGELES, Cal.—Presbyterian Board of Church Extension, Dr. Guy Wadsworth, general secretary, American Bank Bldg., announces that new Presbyterian hospital will be erected in Los Angeles. Board of directors of the hospital fund has been authorized by the Los Angeles presbytery to raise funds to be added to the \$400,000 donated to the presbytery for this purpose several years ago. An architect has not yet been retained nor a site secured for the building.

Preparing Working Drawings.
INSTITUTE BLDG. Cost, \$400,000
SAN FRANCISCO, Potrero Ave. and Twenty-first St.
 Class A concrete Cancer Institute building.
 Owner—City and County of San Francisco.
 Architect—Alfred I. Coffey and Martin J. Rist, Associated, Phelan Bldg., San Francisco.

Commissioned To Prepare Plans.
BUILDINGS Cost each, \$10,000
OAKLAND, Alameda Co., Cal. Del Valle Tuberculosis Farm.
 Two Preventorium Buildings.
 Owner—County of Alameda.
 Architect—Henry H. Meyers, Kohl Bldg., San Francisco.
 One building will be an open-air pavilion.

SAN FRANCISCO.—Malott & Peterson, 3221 20th St., at \$2,971 awarded contract by Board of Public Works for the tile work in the Infirmary Kitchen at the Laguna Honda Home.

Preparing Working Drawings.
ADDITION Cost, \$—
SAN JOSE, Santa Clara County, Cal.
 County Hospital.
 Two-story frame and stucco addition to health cottage.
 Owner—County of Santa Clara.
 Architect—Binder and Curtis, 35 W San Carlos St., San Jose.
 Bids will be taken in about 2 weeks.

MADERA, Madera Co., Cal.—Until January 6, 11:30 A. M. bids will be received by L. W. Cooper, county clerk, for wiring and installation of electric heating stoves in Madera County Hospital. Specifications on file in office of clerk.

Plans To Be Prepared.
NURSEERY Cost, \$25,000
SAN JOSE, Santa Clara Co., Cal.
 Two-story and basement frame and stucco day nursery.
 Owner—San Jose Day Nursery.
 Architect—Binder and Curtis, 35 W San Carlos, San Jose.

Steel Partition Contract Awarded.
WARD, ETC. Cost, \$207,961
AGNEWS, Santa Clara Co., Cal.
 Two-story reinforced concrete ward, kitchen and steam plant building (tile partitions, wood roof construction and tile roof; approx. 70,000 sq. ft. floor area).
 Owner—State of California.
 Architect—Division of Architecture, State Dept. of Public Works, Geo. B. McDougall, State Architect, Public Works Bldg., Sacramento.
 Contractor—J. F. Shepherd, First National Bank Bldg., Stockton.
Steel Partitions—Price Teltz Co., 633 Howard St., San Francisco.
 Other awards reported Dec. 3rd.

Plans Being Figured—Bids Close Jan. 21, 2:30 P. M.
WARD BLDGS. Cost, \$388,500
SAN FRANCISCO. Relief Home T'et.
 Two class A ward buildings (Wards K and L).
 Owner—City and County of San Francisco.

Architect—Hyman & Appleton 63 Post Street.
 Separate bids are wanted for:
 General Contract, est. cost.....\$325,000
 Electric Work, est. cost..... 9,500
 Plumbing, est. cost..... 30,000
 Mechanical Equip. est. cost..... 24,000
 Deposit of \$50 required for general contract plans, and \$25 for each set on other units of the work. Certified check 10% payable to clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Architecture, 2nd floor, City Hall.

Preparing Preliminary Plans.
HOSPITAL Cost, \$90,000
MODESTO, Stanislaus Co., Cal. Stanislaus County Hospital.
 Two-story and basement class B reinforced concrete hospital (psychopathic and medical units).
 Owner—County of Stanislaus.
 Architect—Russell Guerne De Lappe, 1710 Franklin St., Oakland.

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Plans Being Figured—Bids Close Jan. 6, 2 P. M.

KITCHEN, ETC. Cost, \$—
HERKULEY, Alameda Co., Cal.
 One-story reinforced concrete kitchen and commissary building and two-story reinforced concrete boys' and girls' dormitory.

Owner—State of California.

Architect—State Department of Public Works, Division of Architecture, Geo. B. McDougall, State Architect, Public Works Building, Sacramento.

Kitchen and dormitory building will have tile partitions, steel and wood roof construction and tile roof; total floor area 14,000 sq. ft.

Boys' and girls' dormitory will have tile partitions, wood roof construction and tile roof; total floor area 42,700 sq. ft.

Separate bids will be considered for the following segregated parts of the work and combinations listed:

1. General Work and Alternates.
2. Electrical Work and Alternates.
3. Plumbing, Heating and Ventilation Work and Alternates.
4. Complete Mechanical, including Plumbing, Heating, Ventilating, Electrical Work and Alternates.

Alternative bids required will be for the addition to the contract of the Bakery Unit marked Alternate A on plans and the addition of the Arcade and Patio marked Alternate B, both affecting the Kitchen and Commissary Building and involving both general and mechanical work. A third alternate required involving the omission of elevator equipment in both buildings is designated as Alternate C in the specifications.

See call for bids under official proposal section in this issue.

HOTELS

Plans Completed

HOTEL Cost, \$125,000
REDLANDS, San Bernardino Co., Cal.
 East State Street,
 Four-story reinforced concrete and steel Class A hotel (110x120 feet).
Owner—Arthur Gregory, Redlands Security Bldg., Redlands.

Architect—Perrine & Renfro, Lincoln Bldg., Los Angeles.

Mr. Gregory is completing a two-story store and office building which will be tied into the hotel portion. General contract bids will be taken on completion of the plans. The following steel contractors are bidding: Pacific Iron & Steel Co.; Consolidated Steel Corp.; McClintic-Marshall Co.; Minneapolis Steel & Machinery Co.; Brombacher Iron Works; Atlas Iron & Steel Co. Bids will be taken soon on other parts of the work.

Contract Awarded. Cost, \$550,000
HOTEL
SEATTLE, Wash. Brooklyn Avenue and E 45th St.

Sixteen-story and basement fire proof hotel (156 guest rooms).

Owner—University Community Hotel Corp. (Edmond Meany Hotel).

Architect—R. C. Reamer, 1201 4th St., Seattle.

Contractor—Walter and Brady, Lloyd Bldg., Seattle.

Segregated Bids Being Taken.

HOTEL Cost, \$250,000
SAN FRANCISCO. Pine St. between Powell and Stockton Sts.
 Sixteen-story steel frame and concrete hotel.

Owner—Shell Drake Hotel Co.

Architect—H. C. Baumann, 251 Kearny Street.

SANTA CLARA, Santa Clara Co., Cal.—Barney Martin of Santa Clara is said to be leading a group of local businessmen seeking to finance erection of a three-story and basement rein-

forced concrete hotel building on a site not yet announced. The structure would cost \$150,000, housing a garage in the basement, stores and hotel lobby on the ground floor and a ballroom, 10 three-room apartments and individual guest rooms on the upper floors.

POWER PLANTS

GRIDLEY, Butte Co., Calif.—City trustees contemplate enlargement of municipal electric plant. It is proposed to install a Diesel engine in the present stand-by plant. Profits of the systems will finance the installation.

PASADENA, Cal.—C. C. Moore and Co., 108 W. Sixth St., Los Angeles, awarded contract by the city directors at \$141,555 for furnishing and installing steam generating equipment and appurtenances for the municipal light plant at Glenarm St. and Raymond Ave.

RIVERSIDE, Riverside Co., Cal.—The Southern Sierras Power Co. will probably start Jan. 1 on construction of the transmission line from San Bernardino to the site of the Boulder Dam.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

SANTA BARBARA, Cal.—Pauly Jail Bldg. Co., St. Louis, Mo., submitted low bid at \$67,500 to Santa Barbara County Supervisors for the installation of 23 cells in the Santa Barbara county jail. Each cell will provide accommodations for four prisoners. William Mooser Jr., architect, San Francisco. Other bids were: Western Metalcrafts Co., \$74,435; Southern Prison Co., \$75,750; Fries & Son, \$79,697. The bid of Pauly Jail Bldg. Co. was held under advisement until December 15 and all other bids rejected.

Plans Being Prepared.

FIREHOUSE Cost approx. \$10,000
CORTE MADERA, Marin Co., Cal.
 One-story frame and stucco firehouse with tile roof.

Owner—Corte Madera Fire Dept., Inc., Corte Madera.

Architect—Not Given.

Bids will be taken in about 2 weeks.

Sheet Metal Contract Awarded

LIBRARY Cost, \$40,000
FAIRFIELD, Solano Co., Cal.

Two-story concrete public library.

Owner—County of Solano.

Architect—W. E. Coffman, Forum Bldg., Sacramento.

Sheet Metal—Herman Strelehan, 1030 Sonoma St., Vallejo.

Other awards previously reported.

RIVERSIDE, Cal.—Pauly Jail Bldg. Co., St. Louis, Mo., submitted low bid of \$62,254 to Riverside county supervisors and was awarded contract for furnishing and installing jail equipment in the Riverside county jail G. Stanley Wilson, architect, 3646 W. Ninth St., Riverside. Other bids were: Southern Prison Co., \$64,400; Western Metalcrafts Co., \$63,500; Fries & Son, \$69,500.

Plans Being Figured—Bids Close Dec. 15, 3:30 P. M.

ADDITION Cost, \$—
SALINAS, Monterey Co., Cal.
 Addition to city jail and certain alterations in present jail cells.
Owner—City of Salinas, M. It. Keef, city clerk.

Architect—Rutner & Stranahan, Glukharg Bldg., Salinas.

Certified check 10% payable to city required with bid. Plans obtainable from architects.

YUBA CITY, Sutter Co., Cal.—Erection of a two-story corner office building annex to the present county courthouse is contemplated by the Board of Supervisors. It is probable that funds to finance the project will be provided in the 1931 budget.

EUREKA, Humboldt Co., Cal.—Dolson Electric Shop, Eureka, at \$1430 awarded contract by Eureka Public Library trustees for electric wiring in connection with city library. Eureka Electric Co., Eureka, at \$842 awarded contract to furnish and install fixtures. "Holograph" lights will be used in the illumination of the book stacks.

SAUSALITO, Marin Co., Cal.—Town trustees contemplate installation of a heating system in the town hall for the convenience of the public library and for offices in the upper portion of the building. Estimates of cost are being secured.

MARTINEZ, Contra Costa Co., Cal.—Contra Costa County supervisors are considering the selection of an architect to prepare plans and specifications for a new hall of records building in the block just south of the present courthouse. For the past two years the board has been making appropriations for the building, and the final appropriation is to be made next year. A total of \$500,000 for the building will be raised when the appropriations are complete. It is proposed to employ an architect at once and to begin the study of plans for the structure. Just what will be included in the building is to be decided. One proposal is that provision should be made for a third court room, anticipating enlargement of the superior court of the county to three departments.

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Bids Wanted—To Close Dec. 22, 2 P. M.
AUDITORIUM Cost, \$1,050,000
PASADENA, Los Angeles Co., Calif.
Green St. and Garfield Ave.
Reinforced concrete municipal auditorium.

Owner—City of Pasadena.
Architect—Bennett & Hasket and Edwin Bergstrom, First Trust Bldg., Pasadena.

Separate bids will be received on the general plumbing, electric wiring, heating, painting, elevators and fixed chairs. Revised specifications will be mailed to contractors next week.

Contract Awarded.
LINOLEUM Cont. Price, \$4193

BERKELEY, Alameda Co., Cal. SW
Kittredge and Shattuck Ave.
Cover floors with felt linoleum in main library.

Owner—City of Berkeley, Florence E. Turner, City Clerk.

Architect—James W. Plachek, Mercantile Bank Bldg., Berkeley.

Contractor—Anderson's Carpet House, 519 13th St., Oakland.

RESIDENCE

Sub-Contract Awarded.
RESIDENCE Cost, \$16,500

SAN FRANCISCO. St. Francis Wood. Two-story and basement frame and stucco residence (12 room, three baths.)

Owner—T. Trevorrow (Allen & Co.), 168 Sutter St., San Francisco.

Plans by D. E. Jaekle, Call Bldg., San Francisco.

Contractor—A. J. Herzog, 1945 Ocean Ave., San Francisco.

Cement Work—A. Dini Co., 187 Irvington St., San Francisco.

Mill Work—Erickson & Wagner, York and Mariposa Sts., San Francisco

Oil burning system, full tile roof, all colored tile kitchens and bath rooms, oak floors throughout, hardwood trim, electric refrigeration, sweep chutes, etc.

Date Of Opening Bids Postponed Until Dec. 17, 2 P. M.

RESIDENCE Cost, \$16,000
SAN JOSE, Santa Clara Co., Cal.
Two-story and basement frame and stucco residence (8 rooms and 3 baths).

Owner—Dr. E. E. Porter, Security Bank Bldg., San Jose.

Architect—Wolfe and Higgins, Realty Bldg., San Jose.

Plans Being Prepared.
RESIDENCE Cost, \$12,000

SANTA ROSA, Sonoma Co., Cal.
Two-story and basement frame and stucco residence (10 rooms).

Owner—Mr. Nelligan, Santa Rosa.

Architect—Russell Guerne De Lappe, 1710 Franklin St., Oakland.

Bids will not be taken before Feb. 1st.

Gate Lodge Bids Wanted.
ESTATE Cost, \$—

LOS GATOS, Santa Clara Co., Cal.
Estate.

Owner—Name Withheld.
Architect—Farr & Ward, 68 Post St., San Francisco.

Bids being taken from a selected list of contractors. Work comprises two-story and basement frame and stucco residence (12 rooms, 3 baths), gate lodge to cost \$23,000, swimming pool, dressing rooms, tennis courts, and separate garage building. Electric and warm air heating system.

Contract Awarded.
RESIDENCE Cost, \$—

SANTA CRUZ, Santa Cruz Co., Cal.
Pasatiempo Estate.

One-story all wood residence (6 rooms)
Owner—T. D. Church.
Architect—Wm. W. Wurster, 260 California St., San Francisco.
Contractor—Arthur Payne, premises.
Construction will start immediately.

Contract Awarded.
RESIDENCE Cost, \$7000

HALF MOON BAY, San Mateo Co.
One-story and basement frame and stucco residence (6 rooms).

Owner—Withheld.
Architect—Chas. E. J. Rogers, Phelan Bldg., San Francisco.

Contractor—Manuel Dutro, Half Moon Bay.

Architect previously reported as being J. L. Stewart, which was an error.

Contract Awarded.
RESIDENCE Cost, \$12,000

PALO ALTO, Santa Clara Co., Cal.
No. 2412 South Court.
Two-story and basement frame and stucco residence.

Owner—Mrs. Louise B. Short.
Architect—Chas. K. Sumner, 57 Post St., San Francisco.

Contractor—E. J. Schmalling, 863 Melville Ave., Palo Alto.

Sub-Bids Being Taken.
DWELLINGS Cost, —

SAN RAFAEL, Marin Co., Cal.
One-story and basement frame and stucco duplex (2 3-room dwellings)

Owner—H. and M. Development Co., (F. Mendenhall), 5774 Shafter Ave., Oakland.

Plans by L. F. Hyde, 372 Hanover St., Oakland.

Preparing Plans.
RESIDENCE Cost, \$35,000

ISLETON, Sacramento Co., Cal. Isleton Subdivision No. 1.

Ten one-story and basement frame and stucco residences (5 rooms, 1 bath each) private garages.

Owner—Withheld.
Architect—Frederick S. Harrison, P. O. Box No. 873, Sacramento.

Stucco, rustic and brick exterior finish, shingle roofs, O. P. and oak finish floors, circulating heating system and standard Mfg. Co. plumbing goods.

Sub-Bids Being Taken.
RESIDENCES Cost each, \$8500

SAN FRANCISCO. W Pinehurst St. N Kenwood Ave.

Two 1-story and basement frame and stucco residences (6 rooms each).

Owner and Builder—G. W. Morris, 730 Athens Street.

Architect—Not Given.

Sub-Bids Being Taken.
RESIDENCE Cost, \$6000

SAN FRANCISCO. Cal. E 20th Ave. S Santiago St.

One-story and basement frame and stucco residence.

Owner and Builder—C. Ingberman, 2395 20th Ave.

Architect—Fabre & Hildebrand, 110 Sutter St.

Sub-Bids Wanted By Owner.
RESIDENCE Cost, \$100,000

SAN MATEO, San Mateo Co., Cal.
Exact location withheld.

Four-story residence (30 rooms).

Owner and Builder—T. Moore, 58 Lake Ave., Piedmont.

Plans by Owner.

Sub-bids are wanted on all portions of the work. Special features include social room, stage, motion picture room, organ room, billiard room, boiler room, laundry, trunk room, swimming pool, filter room and vault in basement, library, conservatory, roof garden, tennis courts and tea house, 4-car garage, large patio, etc.

Sub-Bids Being Taken.
RESIDENCE Cost, \$10,000
SAN FRANCISCO. NW Pinehurst and Kenwood Sts.

Two-story and basement frame and stucco residence (8 rooms and 2 baths).

Owner and Builder—G. W. Morris, 730 Athens Street.

Architect—Not Given.

Sub-Bids Being Taken.
RESIDENCE Cost, \$8500

SAN FRANCISCO. N Pinehurst near Kenwood Street.

One-story and basement frame and stucco residence (6 rooms).

Owner and Builder—G. W. Morris, 730 Athens Street.

Architect—Not Given.

Construction Postponed Indefinitely.
RESIDENCE Cost, \$15,000

OAKLAND, Alameda Co., Cal. Claremont District.

Two-story frame and stucco residence (8 rooms).

Owner—L. A. Schloss.
Architect—John E. Norberg, 580 Market St., San Francisco.

Contractor—Selected, Name Withheld.

Plans Being Revised.
RESIDENCE Cost, \$12,000

VALLEJO, Solano Co., Cal.
Two-story and basement frame and stucco residence (8 rooms, and 2 baths).

Owner—Dr. Burton Jones, 327 Georgia St., Vallejo.

Plans by A. J. Mazurette, 576 Fifth St., Oakland.

Awards will be made in about ten days.

To Be Done By Day's Work.
RESIDENCE Cost, \$10,000

SAN FRANCISCO. SE Darien Way and Westgate Ave.

One-story and basement frame and stucco residence.

Owner—T. J. Sullivan, 1967 Ocean Avenue.

Plans by E. Boldemann, 1967 Ocean Avenue.

Contract Awarded.
RESIDENCE Cost, \$9000

ALAMEDA, Alameda Co., Cal. No. 2856 Lincoln Avenue.

One-story and basement frame and stucco residence (6 rooms).

Owner—Ethel Church.

Architect—Ray Keefer, 3206 Lakeshore Blvd., Oakland.

Contractor—George Windsor, 928 Kingston Ave., Oakland.

Contract Awarded.
RESIDENCE Cost, \$10,000

SAN FRANCISCO. S Marina Blvd. W Fillmore St.

Two-story and basement frame and stucco residence.

Owner—A. Thurman.

Architect—Irvine and Ebbetts, Call Building.

Contractor—M. P. Jorgenson, 2225 No. Point St.

Contract Awarded.
RESIDENCE Cost, \$10,000

ALAMEDA, Alameda Co., Cal. No. 2979 Northwood Drive.

Two-story and basement frame and stucco residence (7 rooms).

Owner—A. M. Stoker, 5601 Picardy Drive, Oakland.

Plans by W. H. Anderson.

Contractor—Walter H. Anderson, 1014 Doris Court, Alameda.

SCHOOLS

SANTA CRUZ, Santa Cruz Co., Cal.
—Santa Cruz Board of Education is considering estimates of costs and various types of heating systems for the Gault, Laurel and Mission schools.

Estimates submitted by the Const Counties Gas and Electric Co. for gas heating systems were considered high.

SANTA CRUZ. Santa Cruz Co., Cal. Until December 23, 8:00 P. M., bids will be received by C. R. Holbrook, secretary, Board of Education, to furnish and install in the new Laurel, Gault and Mission High Schools, the following equipment:

- (1) Linoleum;
- (2) Blackboards;
- (3) Window Shades;
- (4) Bulletin boards;
- (5) Lighting Fixtures and miscellaneous equipment

Specifications obtainable from office of Superintendent of Schools at the City Hall in Church street.

Commissioned To Prepare Plans. **ADDITION** Cost, \$75,000
MADERA, Madera Co., Calif.
Class C brick addition to high school. Owner—Madera Union High School District.
Architect—Davis-Pearce Co., Grant and Weber Sts., Stockton.

Construction To Start In One Week. **STORE** Cost, \$30,000
PITTSBURG, Contra Costa Co., Calif.
E 4th St. bet. Black Diamond and Fourth Sts.

One-story tile store.
Owner and Builder—K. E. Parker Co., 135 South Park, San Francisco.

Commissioned To Prepare Plans. **SCHOOL** Cost, \$30,000
SEBASTOPOL, Sonoma Co., Calif.
Two-story class C brick high school. Owner—Analay Union High School District.
Architect—Davis-Pearce Co., Grant and Weber Sts., Stockton.

ALPAUGH. Tulare Co., Cal.—L. C. Nelson, Kingsburg, has been awarded contract at \$22,000 by the Alpaugh school district for the erection of a new school building.

PLACERVILLE. El Dorado Co., Cal.—Until Dec. 17, 6 P. M., bids will be received by W. A. Rantz, secretary, El Dorado County High School District, for brick veneering at high school; 17-ft. 6-in. high and 154-ft. long and 4-in. thick. Specifications obtainable from principal at high school in Placerville.

Preparing Working Drawings. **SCHOOL** Est. cost, \$180,000
SAN FRANCISCO. Claremont Blvd. and Taraval Street.

Two-story Class B reinforced concrete school.
Owner—City and County of San Francisco.
Architect—Dodge Reidy, Pacific Bldg., Preliminary plans have been approved.

Contracts Awarded. **GYMNASIUM** Cost, \$—
SAN JOSE. Santa Clara Co., Calif.
State Teachers' College grounds. Reinforced concrete men's gymnasium. Owner—State of California.
Architect—State Department of Public Works, Division of Architecture, Public Works Bldg., Sacramento.

General Work
J. J. Grodem & Co., 1028 San Antonio Ave., Alameda, \$97,995

Plumbing and Heating
Wm. F. Serpa, 497 N 13th St., San Jose, \$15,525

Electrical Work
Guilbert Bros. Elec. Co., 286 W Santa Clara, San Jose, \$6,355

PITTSBURG. Contra Costa Co., Cal.—C. F. Weber & Co., 650 Second St., San Francisco, at \$637 awarded contract by Pittsburg School District to

furnish and install Venetian blinds in Pittsburg Junior High School.

Completing Plans—Contract Awarded. **SCHOOL BLDG.** Cost, \$—
NAPA, Napa Co., Cal. Napa Redwoods.

Three-story reinforced concrete school buildings (4 units and chapel). Owner—La Salle Institute, Martinez.
Architect—H. A. Minton, 525 Market St., San Francisco.
Contractor—J. P. Brennan, 354 Hobart St., Oakland.

Two football fields, two baseball diamonds, and a gym for both the juniors and the senior novices will be constructed. Minor sports will also be arranged for. A swimming pool is in the plans.

Contract Awarded. **ELEC. WORK** Cont. Price, \$2350
SAN FRANCISCO. Onondaga, Otsego and Cayuga Sts.
Electrical work for 3rd unit of (Southside) Balboa High School.
Owner—City and County of San Francisco.
Architect—Bakewell & Weihe, 251 Kearny St., San Francisco.
Contractor—Alta Elec. Co., 938 Howard St., San Francisco.

Contracts Awarded. **SCHOOL** Cost, \$—
SAN FRANCISCO. Noe and 25th Sts.
Class A junior high school building (3-story and basement concrete. Travertine exterior, tar and gravel roof; to accommodate approx. 800 students).

Owner—City and County of San Francisco.
Architect—Crim, Resing and McGulness, 488 Pine St.

General Contract—Anderson & Ringrose, 320 Market St., \$484,000.

Plumbing and Gas Fitting—Turner Co., 329 Tehama St., \$28,600.

Mechanical Equipment—Herman Lawson, 465 Tehama St., \$37,000.

Electric Work—Alta Electric Co., 976 Indiana St., \$31,190.

Contract Awarded. **RENOVATIONS** Cost, \$—
MONTEREY, Monterey Co., Cal.
Renovate, tear out, remodel, alter and refinish Administration Department and change and build stairway in Science Department and install program clock system.
Owner—Monterey Union High School District.
Architect—Swartz & Ryland, 260 Spaulding Bldg., Monterey.

Contractor—M. J. Murphy, Carmel.

Following is a complete list of bids: (1) remodeling, etc.; (2) stairway to basement.

M. J. Murphy, Carmel, (1) \$9,757; (2) \$397.

Wm. Sweeney, Pacific Grove, \$10,271; (2) \$487.

Clinton Const. Co., San Francisco, (1) \$11,257; (2) \$1053.

Electric Clock System
Telechron Electric Clock Co., 47 2nd St., San Francisco, \$1,467.95

International Time Recording Co., San Francisco, \$1,327.00

Clock bids held under advisement.

Construction Postponed Temporarily. **SCIENCE BLDG.** Cost, \$—
SANTA ROSA, Sonoma Co., Cal. Ursuline College.

Two-story frame and stucco science building.
Owner—Ursuline College, Santa Rosa
Plans prepared by the Sisters of the College.

PITTSBURG. Contra Costa Co., Cal.—W. J. Sloane & Co., 224 Sutter St., San Francisco, at \$1838 awarded contract by Pittsburg School District to

furnish and lay linoleum in the corridors and library of the Junior High School.

Bids Opened. **MEMORIAL BLDG.** Cont. \$250,000
BERKELEY, Alameda Co., Cal. Campus of University of California.

Two-story class A concrete Eschman Memorial Bldg. (Student publishing building).

Owner—Regents of the University of California, Berkeley.

Architect—G. W. Kelham, 315 Montgomery St., San Francisco.

Following is a complete list of bids.

General Work
J. J. Grodem & Co., 1028 San Antonio, Alameda, \$116,995
E. T. Lesure, Oakland, \$117,684
Wm. C. Keating, Oakland, \$118,247
It. W. Littlefield, Oakland, \$122,700
K. E. Parker Co., S. F., \$124,750
Dinwiddie Const. Co., S. F., \$124,800
Barrett & Hillp, San Francisco, \$126,783
MacDonald & Kahn, S. F., \$126,999
George Maurer, Oakland, \$129,989
H. L. Petersen, San Francisco, \$133,477
Wm. Spivock, San Francisco, \$135,770
F. J. Westlund, Oakland, \$147,740
P. L. Hansen, San Francisco, \$166,000

Plumbing
The Turner Co., 329 Tehama St., San Francisco, \$5,460
Carl T. Doell, Oakland, \$5,833
Scott Co., Oakland, \$6,262
George Schuster, Oakland, \$6,564
J. A. Fazio, Oakland, \$6,950
Thomas Catton, Oakland, \$8,880

Electrical Work
The Turner Co., 329 Tehama St., San Francisco, \$4,600
Kenyon Electric Co., S. F., \$4,860
C. W. Gates, Oakland, \$4,935
T. L. Rosenberg, Oakland, \$4,970
H. C. Weed & Co., \$4,970
NePage-McKenny, Oakland, \$4,973
Decker Electric Co., S. F., \$5,750

Heating and Ventilating
The Turner Co., 329 Tehama St., San Francisco, \$12,365
Scott Co., Oakland, \$12,750
George Schuster, Oakland, \$13,234
George C. Bell, Oakland, \$13,592
Pacific Heating and Ventilating Co., San Francisco, \$14,650
Carl T. Doell, Oakland, \$14,700

Heating, Ventilating and Plumbing
The Turner Co., 329 Tehama St., San Francisco, \$17,707
Scott Co., Oakland, \$18,995
George Schuster, Oakland, \$19,700
Carl T. Doell, Oakland, \$19,919

Heating, Plumbing, Ventilating and Electrical Work
The Turner Co., 329 Tehama St., San Francisco, \$22,035

Bids held under advisement.

Preliminary Plans Being Prepared. **SCHOOL GROUP** Cost, \$171,000
SEATTLE, Wash. Wrangell Island in Shoemaker Bay
Industrial School Group
Owner—U. S. Government.
Architect—Ellsworth Storey, Pantages Bldg., Seattle.

The group will comprise eight buildings and will form the nucleus of the institution to be under the jurisdiction of the U. S. Bureau of Education. The buildings comprise a school, \$48,000; refectory, \$22,400; domestic arts (girls) \$6,900; manual arts (boys) \$3,000; boys' dormitory, \$27,000; girls' dormitory, \$27,000; staff quarters, \$18,900; and infirmary, \$10,800.

Preliminary Plans Being Approved. **SCHOOL** Cost, \$150,000
SAN FRANCISCO. 30th and 31st Avenues, Geary and Balboa Sts.
Class A school building.
Owner—City and County of San Francisco.

Architect—Miller & Pfeuger, 580 Market Street.

Will be known as the George Washington School.

Bids Wanted—To Open Dec. 23, 3 P. M.
SCHOOL BLDG. Cost, \$160,000
SANTA BARBARA, Santa Barbara Co., Cal. Jefferson School Site.
 Two-story masonry school building (classrooms, kindergarten, etc.)
 Owner—Santa Barbara City School District.
 Architect—Floyd Brewster, J. C. Austin and F. M. Ashley, Chamber of Commerce Bldg., Los Angeles.
 Bids will be called for shortly.

Sub-Contracts Awarded.
SCHOOL Cost, price, \$14,819
LAMESTOWN, Tuolumne Co., Cal.
 One-story class C concrete grammar school (3 classrooms).
 Owner—
 Architect—Davis—Pearce Co., Grant and Weber Sts., Stockton.
 Contractor—Swanson & Chance, Turlock.
Brick Work—D. Bishop, Modesto.
Roofing—Wilkins Roofing Co., Turlock.
Plumbing & Sheet Metal—C. B. Hedman, Turlock.
Electric Work—D. E. Johnson, Turlock.
Mill Work—Union Planing Mill, Taylor and Sutter Sts., Stockton.
Iron Work—Schrader Iron Works, 1247 Harrison St., San Francisco.

BANKS, STORES & OFFICES

Bids To Be Taken In Two Weeks.
BANK Cost, \$50,000
LOS GATOS, Santa Clara Co., Cal.
 Main St. and Santa Cruz Avenue (52x100 feet)
 One-story reinforced concrete bank with tile roof (ornamental stone and acoustical plaster).
 Owner—Bank of Italy.
 Architect—H. A. Minton, Bank of Italy Bldg., San Francisco.
 Three will be two stores, 20x72 feet in connection with building.

Completing Plans.
OFFICES Cost, \$60,000
WATSONVILLE, Santa Cruz Co., Cal.
 Main St. N Fifth St.
 One and two-story offices with tile roof (reinforced concrete construction with cement plaster; 91x236 feet).
 Owner—Coast Counties Gas & Electric Co., N. E. Paulsen, manager, Watsonville.
 Architect—Albert F. Roller, First National Bank Bldg., San Francisco.
 Bids will be taken about Dec. 12.

Planned.
OFFICES Cost, \$—
SAN FRANCISCO. Post and Scott Streets.
 Three-story brick offices.
 Owner—Eureka Benevolent Society, 436 O'Farrell St., San Francisco.
 Architect—Hyman & Appleton, 68 Post St., San Francisco.
 Lease on present building does not expire for six months.

Plans Being Figured—Bids Close January 5.
RANK BLDG. Cost, \$100,000
CHICO, Butte Co., Cal. Broadway and Second Sts. (95x51 ft.)
 One-story reinforced concrete bank (steel trusses, marble work, etc.)
 Owner—Bank of Italy.
 Architect—H. A. Minton, Bank of Italy Bldg., San Francisco.
 There will be a space of 21 ft. between the ceiling and the floor and the general interior will be of marble and acoustical plaster, with low type screens of bronze. The general construction will be of concrete, with steel trusses instead of pillars to support the roof.

Plans Being Completed.
ALTERATIONS Cost, \$25,000
SACRAMENTO, Sacramento Co., Cal.
 Ninth St. near K St.
 Alterations and additions to one-story and basement brick store and bank.
 Owner—Peoples Finance & Thrift Co., 1005 8th St., Sacramento.
 Architect—Charles Dean, California State Life Bldg., Sacramento.
 Whether bids will be called for or not is indefinite at this time.

Plans Being Prepared.
STORE Cost, \$80,000
SANTA ROSA, Sonoma Co., Cal.
 Fourth Street.
 Three-story brick and concrete store building (salesroom and offices).
 Owner—S. H. Kress & Co., 621 S. Broadway, Los Angeles.
 Architect—John Fleming, 1031 South Broadway, Los Angeles.
 It was considered possible that a new steel reinforced superstructure might be set up just inside the present walls.

Plans Being Prepared.
BANK Cost, \$50,000
MONTREY, Monterey Co., Cal. SE Alvarado and Franklin Sts.
 One-story and basement reinforced concrete bank and store building (2 stores).
 Owner—B. F. Wright, Monterey.
 Architect—W. H. Weeks, 111 Sutter St., San Francisco.
 Lessee—Bank of Italy and Palace Drug Co.
 Mr. H. A. Minton, Bank of Italy Bldg., San Francisco, will prepare plans for the interior bank fixtures, etc.

Preparing Plans.
FILM EXCHANGE BLDGS.
 Cost Approx. \$100,000 each
SAN FRANCISCO. Hyde St. near Eddy St.
 Two two-story and basement reinforced concrete film exchange buildings.
 Owner—Bell Bros., Mills Bldg., San Francisco.
 Architect—O'Brien Bros. and W. D. Peugh, 215 Montgomery St., S. F.

Plans Being Figured.
BANK BLDG. Cost, \$100,000
CHICO, Butte Co., Cal. Broadway and Second Sts. (95x51-ft.)
 One-story reinforced concrete bank (steel trusses, marble work, etc.)
 Owner—Bank of Italy.
 Architect—H. A. Minton, Bank of Italy Bldg., San Francisco.
 Bids will not be opened until after January 1st.

There will be a space of 21 ft. between the ceiling and the floor and the general interior will be of marble and acoustical plaster, with low type screens of bronze. The general construction will be of concrete, with steel trusses instead of pillars to support the roof.

Plans Being Completed.
EXCHANGE Cost, \$400,000
TACOMA, Wash. NE Ninth and Fawcett Sts.
 Four-story steel frame telephone exchange (83x123-ft.; ultimate eight-story).
 Owner—Pacific Telephone & Telegraph Company.
 Architect—Rebb & Gould, Hoge Bldg., Seattle.

Completing Plans.
BANK Cost, \$800,000
PHOENIX, Arizona. SE Central and Monroe Sts.
 Eleven-story Class A bank and offices (138x150 feet).

Owner—Valley Bank & Trust Co.
 Architect—Morgan, Walls & Clements, Van Nuys Bldg., Los Angeles.
Steel Work—Kansas City Structural Steel Co., Kansas City.
 General bids will be taken shortly.
 Terra cotta or Indiana limestone and architecturally treated concrete exterior, marble corridor walls, hollow terra cotta partitions, three automatic electric elevators, coin lift, electric vault door controls, air-conditioned ventilating system, steam heat.

Plans To Be Prepared.
STORE Cost, \$500,000
SAN MATEO, San Mateo Co., Calif.
 Third Avenue.
 Modern department store.
 Owner—Levy Bros., 200 2nd St., San Mateo.
 Architect—Not Selected.
 The present officers of the firm are Fernand Levy, president and one of the original founders; Edmond Levy, vice-president, and John D. Bromfield, secretary and manager.

Sub-Contracts Awarded.
STORES Cost, \$8000
SAN FRANCISCO. W Stockton St. N Jackson.
 Two-story and basement class C stores Engineer—Ellison & Russell, 712 Pacific Bldg.
 Contractor—De Luca & Son, 666 Mission Street.
Excavating—L. Demattei & Co., 1866 Geary St.
Lumber—S. F. Lumber Co., foot of Mason St.
Rock and Gravel—John Cassaretto, 6th and Channel Sts.
Cement—J. S. Guerin & Co., 720 Folsom Street.
Plumbing—Wm. J. Forster Co., 355 4th Street.
Electric Work—Collonan Elec. & Mfg. Co., 3211 Mission St.
Glass—W. P. Fuller & Co., 301 Mission St.
Roof—P. E. Depaoli, 2450 Polk St.
Stairs—McKee Bros., 1872 Howard St.
Sheet Metal—G. A. Rege, 2363 Larkin Street.
Plastering—Charles Terranova, 1212 Willard St.
Millwork—Acme Planing Mill 1855 San Bruno Ave.
Hardware—Fignoni Hardware Co., 1351 Grant Avenue.
Painting—A. A. Zelinsky & Co., 4420 California St.
Reinforcing Steel—Pacific Coast Steel Co., 215 Market St.
Structural Steel—Mortenson Construction Work—F. Kern & Sons, 517 6th Street.
 tion Co., 608 Indiana St.

Contract Awarded.
OFFICE Cost, \$—
SONORA, Tuolumne Co., Cal. Washington Street.
 One-story frame, terra cotta and stucco office and exchange building (40x60 feet).
 Owner—Pacific Telephone & Telegraph Co., 140 New Montgomery St., San Francisco.

Architect—Eng. Dept. of Owner
 Contractor—Neil & Wirtner, Turlock.
 Plans To Be Prepared.
MEDICAL ARTS BLDG. Cost, \$—
RICHMOND, Contra Costa Co., Cal. SW 9th St. and Barrett Ave.
 Two-story frame and stucco medical arts building.
 Owner—Dr. C. O. Bishop, 919 Macdonald Ave., Richmond.
 Architect—Not Selected.
 First floor devoted to medical and dental clinic, and six room apt. on second floor.

Preliminary Plans Being Prepared.
BUILDING Cost, \$60,000
OAKLAND, Alameda Co., Cal. Tele-
 graph Ave.
 One- and two-story reinforced con-
 crete administration building.
 Owner—Marshall Steel Company.
 Architect—Alben Froberg, Ray Bldg.,
 Oakland.
 Contractor—H. J. Christensen, Ray
 Bldg., Oakland.

Sub-Contracts Awarded.
BANK Cost, \$15,000
SAN FRANCISCO, Divisadero St. and
 Hayes St.
 One-story and basement reinforced
 concrete bank.
 Owner—Bank of Italy.
 Architect—H. A. Minton, Bank of
 Italy Bldg., Eddy and Powell Sts.,
 San Francisco.
 Contractor—Jacks & Irvine, 74 New
 Montgomery St., San Francisco.
Ornamental Iron—Federal Ornamental
 Iron & Bronze Co., 16th St. and
 San Bruno Ave., San Francisco.
Heating—Frederick Snook Co., 596
 Clay St., San Francisco.
Painting—A. A. Zelinsky, 4420 Cali-
 fornia St., San Francisco.
Plumbing—Dowd-Welch Co., 3558 16th
 St., San Francisco.
Electric—Crown Electric Co., 153 Eddy
 St., San Francisco.
Tile—Art Tile & Mantel Co., 221 Oak
 St., San Francisco.
Reinforcing Steel—W. C. Hauck & Co
 250 San Bruno Ave., San Francisco
Sheet Metal—Lowell Davidson, 375
 Monterey Blvd., San Francisco.
 As previously reported, grading
 awarded to Sibley Grading & Teaming
 Co., 164 Landers St., S. F.

THEATRES

Structural Steel Contract Awarded.
THEATRE Cost approx. \$1,000,000
OAKLAND, Alameda Co., Cal. Broad-
 way near Hobart Street.
 Class A theatre building.
 Owner—Public Theatres, Inc.
 Architect—Miller & Pfueger, 550 Mar-
 ket St., San Francisco.
 Contractor—Geo. Wagner, 181 South
 Park, San Francisco.
Structural Steel—Moore Drydock, foot
 of Adeline St., Oakland

As previously reported, plumbing
 contract awarded to Scott Co., 115
 10th St., Oakland; sprinkler system to
 James Pinkerton, 927 Howard St., San
 Francisco; electrical work to Radel-
 finger Bros., 234 4th St., San Fran-
 cisco; heating and ventilating to Car-
 riar Eng. Corp., Ltd., 748 E Wash-
 ington St., Los Angeles.

Bids To Be Taken In Two Weeks.
ALTERATIONS Cost, \$50,000
OAKLAND, Alameda Co., Cal. 1445
 23rd Avenue.
 Alterations to Class C steel frame and
 concrete theatre (wood joists).
 Owner—Golden State Theatre & Real-
 ty Co., 25 Taylor St., San Fran-
 cisco.
 Architect—Reid Bros., 105 Montgom-
 ery St., San Francisco.

Low Bidder.
THEATRE Cost, \$186,740
PHOENIX, Ariz. First and Wash-
 ington Sts.
 Two-story Class A reinforced con-
 crete theatre (150x200 ft.) (to seat
 1700; 13 stores and 14 offices).
 Owner—Fox West Coast Theatres.
 Architect—St. Charles Lee, 2404 W-7th
 St., Los Angeles.
 Low Bidder—Robert E. McKee, Cen-
 tral Bldg., Los Angeles.
Plumbing and Sprinkler System, \$11,-
 850.
Heating and Ventilating, \$53,900.
 Bids held under advisement.

Commissioned To Prepare Plans.
THEATRE Cost, \$300,000
MERCED, Merced Co., Cal.
 Class A theatre (to seat 2000).
 Owner—T. & D. Enterprises, Inc.
 Architect—Reid Bros., 105 Montgom-
 ery St., San Francisco.

WHARVES AND DOCKS

Contract Awarded.
PIER Cost, price, \$345,597
SAN FRANCISCO, Pier No. 23
 Reinforced concrete pier (150x800-ft.;
 green piles, concrete jacket and
 reinforced concrete deck).
 Owner—State Board of Harbor Com-
 missioners, Ferry Bldg.
 Engineer—Frank White, Ferry Bldg.
 Contractor—Healy-Thibbitts Const. Co.,
 64 Pine St.
 Following is a complete list of bids:
 Healy-Thibbitts Const. Co. \$345,597
 Merritt, Chapman & Scott \$352,000
 MacDonald & Kahn \$353,000
 M. E. McGowan \$357,000
 W. H. Kitchen \$365,946
 Schuler & McDonald, Oakland 388,773
 Clinton Const. Co. 410,800

LONG BEACH, Cal.—R. R. Bishop,
 5017 East Broadway, Long Beach, at
 \$104,912 submitted low bid to city
 manager to furnish all plant and ap-
 pliances and the construction of a
 creosoted timber wharf and stone
 berm at Berth Nos. 1, 2, 3 and 12,
 dredging and filling, Outer Harbor.

Plans Being Prepared.
PIER Cost, \$185,000
OAKLAND, Alameda Co., Cal. Foot
 of Webster St.
 Reinforced concrete pier.
 Owner—City of Oakland Port Com-
 mission, Oakland Bank Building,
 Oakland.

Plans by Eng. Dept. of Owner.
 Work involves dredging, apron
 wharf, etc. Bids will be called for af-
 ter Jan. 2, 1932.

MISCELLANEOUS CONSTRUCTION

SAN FRANCISCO—Until December
 22, 3 P. M., under Proposal No. 663,
 bids will be received by Leonard S.
 Leavy, city purchasing agent, 270
 City Hall, to furnish and erect two
 radio towers for Department of Elec-
 tricity. Specifications obtainable from
 above office.

Plans Being Figured.
HOSPITAL Cost, \$10,000
BERESFORD, San Mateo Co., Cal.
 One- and two-story frame and stucco
 animal hospital.
 Owner—Dr. Harold H. Groth, El Ca-
 mino, Beresford.
 Architect—Harold Stoner, 220 Third
 Ave., San Mateo.

Sub-Contracts Awarded
ART GALLERY Cost, \$60,000
STOCKTON, San Joaquin Co., Cal.
 Victory Park.
 Haggin Memorial Museum and Art
 Gallery (steel and brick filler
 walls; concrete floors; metal joists,
 steam heating system).
 Owner—San Joaquin Pioneer & His-
 torical Society (Donation of Mrs.
 Ella McKee).
 Architect—W. J. Wright, Mail Bldg.,
 Stockton.

Contractor—Wm. J. Scott, 1661 W-
 Poplar St., Stockton
Excavation—Willard & Blasott, 40
 West Clay St., Stockton.
Concrete and Brickwork—A. W.
 Cowell, 1231 E-Pinchof St., Stock-
 ton.
**Structural Steel, Ornamental and
 Miscellaneous Iron**—Selter Iron

Works, 945 S Ilgrin St., Stock-
 ton.
Cement Coloring—Horn Products, 557
 Market St., San Francisco.
**Steel Joists, Ferro Deck, High Rib and
 Reinforcing Steel**—Trucon Steel,
 Call Bldg., San Francisco.
B. Clips, Cork—Builders Supply Co.,
 390 9th St., San Francisco.
Cast Stone—Geo. Sorensen, 16th St.
 Road, Sacramento.
Plaster—John Perry, Bk. of America
 Bldg., Stockton.
Electric—E. H. Grogan, 209 E-Chan-
 nel St., Stockton.
Marble—Fischer Tile, 744 E-Weber
 St., Stockton.
Paint—W. Anderson, 2110 W-Acala
 St., Stockton.
Hardwood Floors—W. Bradbury,
 Moreing Road, Stockton.
Roofing (Pabco)—Stockton Roofing
 Co., 736 N-Hunter St., Stockton.
Mill Work—Union Planing Mill Co.,
 Taylor and Sutter Sts., Stockton
Lumber—Stockton Lumber Co., 347
 S-Commerce St., Stockton
Steel Sash—Michel & Pfeiffer, Harri-
 son and Tenth Sts., S. F.

GILROY, Santa Clara Co., Calif.—
 Until December 16, 8 P. M., bids will
 be received by E. G. Rogers, city
 clerk, to erect steel bell tower and re-
 move present bell to new location at
 Fifth Street Firehouse. Certified check
 10% required with bid. Specifications
 on file in office of clerk.

Plans Complete.
SWIMMING POOLS Cost, \$85,000
LOS ANGELES, Cal.
 Two conc. reinforced concrete swim-
 ming pools (60x75 and 50x60) and
 one-story brick dressing room (90x
 150-ft.).
 Owner—Los Angeles City School Dist.
 Architect—J. E. Austin and F. M.
 Ashley, Chamber of Commerce
 Bldg., Los Angeles.

PLACER COUNTY, Calif.—D. H.
 Mosser & Son, Sacramento, at \$1,
 \$35.60 submitted low bid Dec. 8 to C.
 H. Whitmore, District Engineer, Dis-
 trict No. 3, State Highway Commis-
 sion, Sacramento, to move meeting
 hall to a new location, ¼ mile west of
 Newcastle. Complete list of bids fol-
 lows:
 D. H. Mosser & Son, Sacto. \$1,536
 E. R. Jamieson, Sacramento 1,563
 O. F. Brown & Son, Sacto. 2,182
 Reeves & Clutter, Newcastle 3,339
 Chas. Wilkens, Sacramento 2,840
 W. E. Treadwell, Sacramento 2,885
 Bids held under advisement.

Sub-Bids Being Taken.
BUILDING Cost, \$20,000
SAN RAFAEL, Marin Co., Cal.
 Two-story brick humane society bldg.
 Owner—Humane Society.
 Architect—N. W. Sexton, deYoung
 Bldg., San Francisco.
 Contractor—W. A. Hellwig, 10 Octa-
 via St., San Rafael.

Plans Being Figured.
UNDERTAKING PARLORS \$40,000
SAN FRANCISCO, Sacramento St
 bet. Van Ness Ave and Polk St.
 Three-story frame and stucco undar-
 taking establishment and apart-
 ments.
 Owner—Jos Haggin, 1708 Sacramento.
 Architect—Henry C. Smith and A R
 Williams, Humboldt Bank Bldg.
 Strehlow & La Voie, 1274 Dolores
 St., San Francisco, (Tel. Mission 6084)
 desire sub-bids on all portions of the
 work. Bids are to be opened Dec. 17.

Engineering News Section

BRIDGES

MARSHFIELD, Oregon.—Liesch & Tofte, Marshfield, at \$293,000 for concrete approaches on the west side and cedar on the east side, awarded contract by Coos County Commissioners to construct bascule type bridge over the Isthmus Inlet and Bunker Hill and the East Side, Coos Bay. Pacific Bridge Co., Portland, at approx. \$296,000 next low bidder. Bids were also submitted by: Gilpin Contracting Co., Portland; Union Bridge Co., Portland; Oregon Bridge & Dredge Co., Portland; Pacific Coast Foundation Co., San Francisco; Lindstrom & Feigenson Co., Portland and Seattle.

SAN FRANCISCO.—Healy - Tibbitts Const. Co., 64 Pine St., San Francisco, at \$7,315 awarded contract by Board of Public Works to construct reinforced concrete trestle to support 41-inch pipe line of municipal water department at Alemany Blvd.; estimated cost \$7000. Project will involve: 4,000 lin. ft. timber piling; 110 cu. yds. reinf. concrete piers, slab and girders (class A); 30 cu. yds. plain conc. piers (class B);

18,500 lbs. reinforcing steel in place. **MARIN COUNTY, Cal.**—Healy-Tibbitts Const. Co., 64 Pine Street, San Francisco, at \$329,667 awarded contract by State Highway Commission, Nov. 26, to construct bridge across Richardson Bay and over tracks of the Northwestern Pacific Railroad at Manzanita, consisting of one 56-foot plate girder lift span on concrete piers with pile foundations, one 45-ft. steel stringer span on concrete piers with pile foundations and approx. 2340 ft. of timber trestle on pile and frame bents.

SACRAMENTO, Cal.—County supervisors reject bids to construct corrugated galvanized iron culvert on Rydell-Howard Landing Road, located on Grand Island. Bidders were: Robert Heaney, \$1901; J. W. Hooper, \$2063; J. R. Reeves, \$2422; W. H. Larsen.

SAN JOSE, Santa Clara Co., Cal.—Engineering Department, Southern Pacific Railroad, 65 Market St., San Francisco, is taking bids to construct the Park Avenue Subway. Bids close December 22. The cost is estimated at \$140,000. W. H. Kirkbride, chief engineer for company.

SANTA ROSA, Sonoma Co., Cal.—Until Dec. 23, 2 P. M., bids will be received by Joint Highway District No. 16 to construct steel bridge over the Russian River, 1½ mile above Jenner, involving two 145-feet steel deck truss spans and nine 60 ft. steel girder spans with concrete deck and steel H beam piling and two concrete abutments, one 40 ft. and another 30 ft. Project involves: 58,000 cu. yds. roadway excav.; 27,000 sta. yds. overhaul; 6,000 ft. property fence, 10 gates; 116 ft. 12-in. corr. pipe; 70 ft. 24-in. do.; 180 ft. 30-in. do.; 17 cu. yds. "A" conc. (culverts). Plans obtainable from J. B. Platt, engineer, Daugherty-Shea Bldg., Santa Rosa.

DREDGING, HARBOR WORKS & EXCAVATIONS

LONG BEACH, Cal.—Merritt, Chapman & Scott, San Pedro, submitted low bid to U. S. Engineer Office, Los Angeles, to repair 3000 lin. ft. of outer section of breakwater at Long Beach and to restore defective portions. The items on which bids were submitted follow:

(a) Price per ton of 2000 lbs. of stone in place at the breakwater, furnishing plant, labor, materials, etc., for repairing damaged portions of the outer 3000 ft. of breakwater
(b) Price per hour for rental of stone placing plant for stone salvaging or resetting operations or trestle removal purposes.

(c) Alternate proposal; price per ton of stone in place in the breakwater; this proposal providing for the use of stone from a quarry so situated that direct transportation therefrom would be in part over a land grant portion of a railroad; furnish all plant, labor, etc., exclusive of transportation, between quarry and (Los Angeles Harbor) (Long Beach Harbor), but including all other charges and perform all work required for repairing damaged portion of the outer 3000 ft. of the breakwater at Long Beach Harbor.

The bids follow:
Merritt, Chapman & Scott Corp., (a) \$3.59; (b) \$17 for 20-ton floating derrick lighter, \$17 for 20-ton floating derrick lighter with scow and tender, \$35 for 90-ton floating derrick with slings, \$41 for 90-ton derrick lighter with scow and tender, \$45 per day of 8 hours for driver, tender and gear. (c) \$2.69.

Hauser Constr. Co., (a) \$3.80, (b) \$32, (c) \$2.90.
San Francisco Bridge Co., (a) \$3.97, (b) \$25, (c) \$3.37.
United Dredging Co., (a) \$3.98, (b) \$27.50, (c) \$3.38.

SACRAMENTO, Cal.—Until Dec. 16, 3 P. M., under Circular Proposal No. 31-164, Specifications No. 2731-1743, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish, deliver and place 5,000 tons rip-rap stone along the Sacramento river, between Mayberry Slough and Bakers Point. Specifications and further information obtainable from the above.

SACRAMENTO, Cal.—Franks Contracting Co., 260-California St., San Francisco and Olympian Dredging Co. 249 First St., San Francisco, at \$119 submitted identical bids to U. S. Engineer Office, California Fruit Bldg., Sacramento, to raise existing levee along east and south boundaries of the Liberty Farms Project No. 2, located southerly of Yolanda Station on the Sacramento Northern Railroad, involving approximately 350,000 cubic yards.

RICHMOND, Contra Costa Co., Cal.—Until January 8, 3 P. M., bids will be received by U. S. Engineer Office, Customhouse, San Francisco, for furnishing about \$1,000 tons of core rock and 18,000 tons of facing rock and building an extension to the training wall in Richmond Harbor. Specifi-

cations obtainable from above office. See call for bids under official proposal section in this issue.

IRRIGATION PROJECTS

RICHVALE, Butte Co., Calif.—Authority has been granted by the Railroad Commission to Sutter Butte Canal Co. to transfer to Richvale Irrigation Dist. an undivided one-quarter interest in the water rights of that company on the Feather River, excepting the so-called Sunset pumping permit; and also an undivided one-quarter interest in the company's main dam and diversion works and other diversion facilities at the Feather River; also an undivided one-quarter interest in the main canal from said diversion works to the point where the Biggs lateral branches therefrom; also an undivided one-half interest in the Biggs lateral to the head of the Biggs extension, and also all of said Biggs extension lateral, together with ditches leading therefrom, pumps, buildings and other operative property necessary to serve the so-called Richvale area. The purchase price thereof is \$750,000 of which \$500,000 is payable in bonds of the district and the remaining \$250,000 to be paid within 20 years, with interest at the rate of 6% per annum on the unpaid balance. It is proposed by the district to supply irrigation water to approximately 18,000 acres within the Richvale district and approximately 15,000 acres outside the district, mostly devoted to rice culture and located in Butte County.

STREET LIGHTING SYSTEMS

TURLOCK, Stanislaus Co., Calif.—Until December 29, 2 P. M., bids will be received by Anna Sorensen, secretary, Turlock Irrigation District, for improvements in Districts Nos. 58, 34, 38, 41, 45 and 49, involving:
(1) 648,537 sq. ft. 2-in. concrete canal lining;
(2) 452 cu. yds. concrete in canal structures;
(3) 8,330 lin. ft. 30-inch dia. conc. pipe;
(4) 2,410 lin. ft. 36-inch dia. conc. pipe;

Certified check 5% payable to Turlock Irrigation District required with bid. Plans obtainable from secretary.

LIVERMORE, Alameda Co., Cal.—Informal bids will be considered by the city trustees on December 22 to replace the present electrolier system in the business district. Companies whose standards are manufactured in California are especially requested to submit bid. Standards will be 16 ft. in height and will be installed in First St., between M St. and the Southern Pacific Railroad tracks. A complete new underground system will be required. Further information obtainable from city clerk.

MACHINERY AND EQUIPMENT

OAKLAND, Cal.—Sherman Tractor and Equipment Co., 931 E 14th Street, San Leandro, at \$1,695 submitted low bid to City Port Commission to fur-

nish one new Industrial Type Tractor. Edward R. Bacon Co., San Francisco, \$1,717.50 and Taylor & George, San Francisco, \$1,950, were other bidders. Taken under advisement.

LA MESA, San Diego Co., Cal.—Until 7:30 P. M., Dec. 23, bids will be received by the city council for one 15-hp. tractor, crawler type, with gasoline motor; and one grader, equipped with 8-ft. blade, flat tires, tractor pole, cable and cast steel scarifier with 12 or more removable and adjustable heavy steel teeth, which said tractor, grader and scarifier shall conform with the specifications for Caterpillar Fifteen Tractor, and Caterpillar Fifteen Grader and Scarifier, as manufactured by the Caterpillar Tractor Co. or the equal. O. E. Larnum, city clerk.

SAN JOSE, Santa Clara Co., Cal.—Until December 23, 8 P. M., bids will be received by J. J. O'Brien, clerk, Orchard School District, to furnish and deliver one 40-passenger school bus. Specifications obtainable from the clerk.

STOCKTON, San Joaquin Co., Cal. County will sell at public auction on December 16, 11 A. M., at main entrance to courthouse, the following equipment no longer required:

One 1934 model Reo Speedwagon, engine No. 102566; one 1913 model 3½ ton Reo Truck Engine No. 29337; one 1927 model Dodge Special Coupe, Engine No. D 933596.

Separate offers are desired for each piece of equipment. Permission to inspect the above equipment may be secured from the clerk.

SACRAMENTO, Cal.—E. D. Adams, city controller, will sell at public auction on December 13, 10 A. M., the following equipment at the City Corporation Yard, 33rd and S Sts., no longer required by the city:

One Standard Weather Bureau Shelter.

One No. 255 Lietz U. S. Weather Bureau Standard, Maximum and Minimum Thermometer.

One Standard U. S. Weather Bureau Rain Gauge.

EUREKA, Humboldt Co., Calif.—Until December 17, 7:30 P. M., bids will be received by Geo. E. Albee, city superintendent of schools, to furnish on new Studebaker 6-cylinder Regal 5-passenger sedan, late model, complete with two spare tires, luggage carrier, hydraulic shock absorbers, front and rear bumpers. Certified check 10% payable to Eureka High School District required with bid. Further information obtainable from above.

SEATTLE, Wash.—Until January 2, 10 A. M., bids will be received by Board of Public Works to furnish and erect a 300-ton, two trolley traveling crane for the powerhouse of the Diablo plant, located on the right bank of the Skagit river, situated about one-half mile below Diablo dam. Specifications are obtainable from G. W. Roberge, secretary.

LOS ANGELES, Cal.—Until January 7, 10 A. M., bids will be received by General Manager, Los Angeles Harbor Department, 405 Branch City Hall, San Pedro, to construct and deliver a Diesel Engine propelled pilot boat under Specification No. 569. Specifications obtainable from above.

MADERA, Madera Co., Cal.—Moreland Sales Corp., Fresno, at \$2,555 awarded contract by city council to furnish one new Moreland Truck chassis, not less than 5300 pounds capacity.

SACRAMENTO, Cal.—Until December 18, 3 P. M., bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver Rio Vista, Solano County, under Order No. 2705-1723, one new motor driven air compressor; horizontal water cooled air compressor of not less than 310 cubic feet piston displacement and 110 lbs. working pressure, motor driven, close coupled, with multiple "Y" belt or tuxorope drive and constant speed regulation.

A compressor of approximately 12" bore and 16" strokes is desired. Pressure and volume control to be of unloading inlet valve type and to be equipped with air filters. Compressors of the Ingersoll Rand Class E.R. or Chicago Pneumatic Class P 6-DE class are desired and preferred. The motor shall be similar and equal to a "GE" or Westinghouse 60 H.P., 40 degree, 220 volt, 3 phase, 60 cycle, squirrel cage, induction motor complete with pulley of proper size and the necessary belt. The motor shall be furnished on a sliding base or rails and manually operated, with low voltage and overload protection.

Bidders will also state allowance which will be made for trade in value of single stage 7½"x6", Class N-SE, Sealed Air, 16254 used compressor shown on page 17, Bulletin 720, Chicago Pneumatic Tool Co. This compressor does not include the motor or belt.

SAN FRANCISCO.—Until December 15, 10 A. M., under Schedule No. 923-11-149, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver one clam shell bucket, 1-yard capacity. Height of bucket closed, 7 ft. 6-in.; length 5 ft. 7-in.; width 3 ft. 8-in.; distance between jaws, bucket open 7 ft. 4-in.; height bucket open 8 ft. 7-in.; weight approx. 4380 lbs. To be equal and similar to Browning Reeved Bucket. To work with McMyler Interstate Co.'s Steam Crane No. 3341. Bidder to submit cut and full description of bucket he proposes to furnish. Loose or spare parts to be packed in wooden cases, iron strapped, suitable for export shipment. Further information obtainable from above.

RAILROADS

LAS VEGAS, Nev.—Until Jan. 12, bids will be received by the U. S. Bureau of Reclamation, Las Vegas, for the construction of a railway from Boulder City to the Hoover Dam site. This work will involve construction of 10.5 miles of railroad construction with heavy construction in solid rock formation, including five tunnels within 1 mile. The project will extend from the summit, the end of the L. A. & Salt Lake Ry. section, down to the dam site. The principal items and quantities follow:

- 115,000 cu. yds. of common excav.
- 364,000 cu. yds. of rock excav.
- 163,000 cu. yds. of unclass. borrow;
- 803,000 sta. yds. of overhaul;
- 287,000 cu. yds. of long haul unclass. borrow "loaded into hauling equipment";
- 705,000 yd. mt. of hauling and spreading "long haul unclass. borrow";
- 29,000 cu. yds. of tunnel excav.
- 200,000 ft. b.m. permanent tunnel timbering;
- 800 cu. yds. struc. excav. common
- 1,200 cu. yds. of struc. excav. rock;
- 6,000 cu. yds. of rock fill;
- 220 cu. yds. of concrete;
- 16,000 lbs. of reinforcement steel;
- 2,100 cu. yds. of rock riprap;
- 2,600 cu. yds. of concrete crib wall;
- 1,600 lin. ft. 24-in. corru. pipe;

- 120 lin. ft. of 30-in. do.
- 180 lin. ft. of 36-in. do.
- 280 lin. ft. of 42-in. do.
- 200 lin. ft. of 48-in. do.
- 600 lin. ft. of 60-in. do.
- 30,000 ft. b.m. of bridges or trestle timbering;
- 200 lbs. of rail stringers in rail to top trestle;
- 2,000 lin. ft. of piling;
- 80 pile point shoes;
- 22,800 cu. yds. of ballasting;
- 7 miles of laying track (tie plated);
- 10 miles of laying track (not tie plated).

J. C. Page is office engineer at Las Vegas. S. G. Harper, acting chief engineer, Denver.

FIRE ALARM SYSTEMS

CULVER CITY, Los Angeles Co., Cal.—Until 8 P. M., Dec. 22, bids will be received by the city council for constructing one set of Neon type 4-post sidewalk traffic signals at Washington and Centinella Blvds. P. H. Jarrett, city clerk.

FIRE EQUIPMENT

MADERA, Madera Co., Cal.—Until January 6, 11 A. M., bids will be received by L. W. Cooper, county clerk.

(1) For sale of Second Hand Moreland Fire Truck now owned by Road District No. 3 of Madera County.

(2) For purchase of one New Fire Truck and equipment.

Specifications and further information obtainable from above.

YREKA, Siskiyou Co., Calif.—Seagrave Corp. at \$11,750 awarded contract by city trustees to furnish one 500 g.p.m. motor-driven pumping engine and hose car with water equipment and a motor-driven service hook and ladder truck. Other bids were: American La France and Foamite Corp., \$13,000; \$14,235 and \$15,700; Mack International Motor Co., \$12,544; Ahrens - Fox Fire Extinguisher Co., \$13,560; Travelers Garage (Studebaker), Yreka, \$11,815; Watkins-Hobson Co. (Dodge Bros.), Redding, \$7,296 chassis, hook and ladder equipment.

RESERVOIRS AND DAMS

MODESTO, Stanislaus Co., Cal.—City Engineer Frank J. Rossi has prepared a preliminary design for a weir dam across the Tuolumne River to create a water playground for Modesto. Surveys have been made for 5-ft., 7-ft., and 10-ft. dams. The 10-ft. dam would create a lake approximately 2 miles in length by 330 to 350 ft. in width. Estimates run from \$6000 to \$15,000.

PHOENIX, Ariz.—American Concrete Pipe Co., 4635 Firestone Blvd., Los Angeles, and Schmidt-Hitchcock, Contractors, of Phoenix, bidding jointly, were awarded the contract by the Phoenix city commission Dec. 4, at \$2,053,110.15 for constructing the Verde Intake pipe line, reservoir and distributing system. The bid was based on Schedule A, Granite Reef alternate, for centrifugally cast concrete pipe. The bid on the reservoir was \$130,000. The system to be built includes the following:

Unit No. 1—31.5 miles of supply line from the intake on the Verde River to the new reservoir site, including 36-in., 48-in., 54-in. pipe, with tunnel, largely granite, 5½x7½ ft., lined where necessary. This section includes junction chambers, concrete in crossings, manholes, air and vacuum valves, blowoff and gate valves.

Unit No. 2—20,000,000-gallon reser-

volt, earth embankment, concrete lined, concrete central house and water distributing tower. Work involves 26,000 cu. yds. excavation and embankment, 85,000 cu. ft. concrete, 270 ft. 54-in. and 220 ft. 48-in. pipe, and one 54-in. Venturi valve, and one 54-in. valve, two 48-in. valves.

Unit No. 3.—Construction of supply lines from reservoir to city limits, involving: 256,260 ft. 48-in. or 45-in. pipe, 7900 ft. 42-in. pipe, 4020 ft. 36-in. pipe, 16,023 ft. 24-in. pipe, 1 junction chamber, 2 48-in. elect. operated valves, 2 48-in. hand operated valves, 4 42-in. hand operated valves, 8 24-in. elect. operated valves, 1 16-in. valve, 9 5-in. valves, 10 6-in. valves, also rees, reducers, etc.

No. 4.—Construction of about 6 miles of cast iron distribution mains in the city. Pipe to be 12-in., 8-in. and 6-in. U. S. make. Unite No. 5.—Detritor (sand and silt remover on incoming line just below intake). Work involves one 60-ft. Dorr detritor (basin) with 77-ft. by 71-ft. concrete floor, steel frame roof, and galvanized iron cover. C. C. Kennedy, Call Bldg., San Francisco, is engineer.

PIPE LINES, WELLS, ETC.

SANTA CLARA, Santa Clara Co., Cal.—City trustees will ask bids a once to drill and case a 16-inch well at the municipal water plant. George Sullivan, city engineer.

SEWERS AND SEWAGE DISPOSAL PLANTS

MONTEREY, Monterey Co., Cal.—John Pestana, 1232 35th Ave., Oakland awarded contract by city council (\$342) to construct 6-in. vitrified sewers in portions of Fillmore St., Grace St., Terry St., Parcel St., etc., together with 31 manholes, 4 inspection holes and 570 wye branches.

BAKERSFIELD, Kern Co., Calif.—Stroud Bros. and Seabrook, Bakersfield, at \$1,107.62 awarded contract by city council to construct sanitary sewers in blocks 241, 245 and 246, Bakersfield, formerly Kern in District No. 609, involving 1322 ft. 6-in. cem. sewer pipe; 2 manholes; 3 lampholes.

HAYWARD, Alameda Co., Calif.—City Engineer Jesse B. Holly preparing plans for sewer in Dean St., property owners having petitioned for the work.

BENICIA, Solano Co., Cal.—Engineer E. N. Eager, % County Surveyor's Office, Fairfield, is making surveys for sewer system in eastern section of city.

CARMEL, Monterey Co., Cal.—City trustees will select an engineer shortly to make a survey for a sewer system in connection with drainage of Mission Street.

BERKELEY, Alameda Co., Cal.—Martin Murphy, 777 8th St., Oakland, at \$4670 submitted low bid to city council to construct sewer in Third St. from Glisan St. to Camella St. Following is a complete list of bids received:

Martin Murphy, (a) 550 feet 30-inch pipe, \$5.80; (b) 60 ft. 12-in. pipe, \$2.50; (c) 5 manholes, \$70; (d) 2 catchbasins, \$100; (e) 20 cu. yds. Class B concrete, \$10. Total, \$4670.

Lee J. Immel (a) \$6.25; (b) \$1.60; (c) \$70; (d) \$60; (e) \$4,828.50.

W. J. Tobin (a) \$6; (b) \$2; (c) \$75; (d) \$120; (e) \$4875.

U. B. Lee (a) \$5.91; (b) \$1.55; (c) \$90; (d) \$125; (e) \$15. \$4934.50.

Oakland Sewer Constr. Co. (a) \$6.30; (b) \$1.50; (c) \$60; (d) \$100; (e) \$15. \$4935.

Robert McNair (a) \$6.60; (b) \$2.20; (c) \$67; (d) \$120; (e) \$9. \$5179.70.

Ed. Bowman (a) \$7; (b) \$2.50; (c) \$90; (d) 65; (e) \$12.

OAKLAND, Cal.—Until December 12 noon, bids will be received by F. C. Merritt, city clerk, to construct sewer through the property of Mills College and certain highways adjacent thereto, involving:

- (1) 2660 lin. ft. 18-in. pipe sewer;
- (2) 1160 lin. ft. 21-in. do;
- (3) 40 lin. ft. 18-in. pipe sewer with concrete jacket;
- (4) 20 lin. ft. 21-in. do;
- (5) 16 manholes;
- (6) 3 8-in. drop lampholes;
- (7) 30 Y branches.

Est. cost \$20,000. Bond of one-fourth of contract price required of successful bidder. Plans on file in office of clerk. Walter N. Frickstad, city engineer.

OAKLAND, Cal.—Until December 12 noon, bids will be received by F. C. Merritt, city clerk, to construct sewer in Adeline St. bet. 8th and 22nd Sts., involving:

- (1) 200 lin. ft. 12-in. pipe sewer;
- (2) 2164 lin. ft. 15-in. do;
- (3) 1238 lin. ft. 18-in. do;
- (4) 4 manholes.

Est. cost \$12,000. Bonds of one-fourth of contract price required of successful bidder. Plans on file in office of clerk. Walter N. Frickstad, city engineer.

MISCELLANEOUS CONSTRUCTION

MARTINEZ, Contra Costa Co., Cal.—County supervisors have pledged \$454,000 to aid in the construction of a new inter-county low level tunnel to replace the present tunnel on the Oakland-Pittsburg Highway. Alameda County is to provide an additional \$4,095,100 and the state \$300,000 to finance the project.

SAN FRANCISCO—Anticipating the voting of \$2,500,000 in bonds in January to relieve unemployment the Board of Public Works has directed City Engineer M. M. O'Shaughnessy to prepare plans and specifications for the following improvements:

Development of Meadows in Golden Gate Park;

Bride path from Sutro Heights to Sea Cliff;

Foot path from Sutro Heights to 32nd Ave.;

Foot path around Telegraph Hill; Driveway in McLaren Park;

Foot path through Sunset Square; Improve existing roads in Golden Gate Park (widened Stow Lake Drive);

Planting and grading Telegraph Hill; Improve Aquatic Park, Yacht Harbor and Balboa Park and roadways in Sharp Park in San Mateo County and improve structures, facilities, grounds and equipment of the following playgrounds: Potrero Hill, Ocean View, St. Mary's, Julius Kahn and Funston Annex.

Certain improved routes of road around the shores of Lake Merced, recondition streets and areas in Sunset District bounded by Lincoln Way, Slot Blvd., 7th Ave. and Great Highway; extension over Clarendon Ave. to 7th Ave.; road around Elue Mountain; improve Slatley St. Parkway between Alemany and Junipero Serra Blvds., Bernal Heights Blvd., roadways within and approach of Laguna Honda Home and all such readjustments to substructures, etc.

WATER WORKS.

ANTIOCH, Contra Costa Co., Cal.—A. Bloom, 450 Clemente St., San Francisco, at \$2,447 awarded contract by town clerk to furnish and install a horizontal pressure filter; for enlarging the building housing filters in addition to other minor improvements at Municipal Water Plant.

Following is a complete list of bids: A. Bloom, San Francisco, \$2,447; David Nordstrom, Oakland, \$2,585; International Filter Co., S. F., \$2,925; California Filter Co., S. F., \$3,093. Bids of the Chemical Equipment Co., Los Angeles, was not considered as bids was not submitted in proper form.

MADERA, Madera Co., Cal.—City trustees take under advisement until December 16, bids received to furnish and install pump at sewage disposal plant; 600 g.p.m. to 900 g.p.m. connected to electric motor. Bids were: Industrial & Municipal Supply Co., 7 Front St., S. F., \$1,812; Fairbanks-Morse Co., S. F., \$1,847; C. V. Martin, S. F., \$2,031; DeLaval Steam Turbine Co., San Francisco, \$2,031; Water Works Supply Co., S. F., \$2,049.

REDLANDS, San Bernardino Co., Cal.—Until December 17, 2 P. M., bids will be received by C. F. Hook, city clerk, to furnish and install one horizontal booster pump and motor as follows: 300 pounds pressure, 900 G. P. M. direct connected, 60 cycle electricity. Eider to submit complete specifications of pump, including performance curve. All bids f.o.b. Redlands.

REDWOOD CITY, San Mateo Co., Cal.—Bids will be asked at once by city council to furnish 6- and 8-inch pipe in connection with extensions to water system; total estimated cost, including construction, \$17,500. C. L. Dimmitt, city engineer.

CONTRACTORS' MACHINE WORKS

SPECIALISTS ON REPAIRING AND REBUILDING OF

Bunkers, Hoppers, Chuting, Conveyors, Rollers, Mixers, Hoists, Shovels, Tractors, Pavers, Crushers, Drag Lines, Elevators, Car Unloaders, and other Road and Building Equipments;

BLACKSMITHING AND WELDING

Builders of Rosenberg Portable Car Unloaders

CREAR & BATES

57 Zoe St., bet. 3rd and 4th, off Brannan St.

Phone GAfield 4374

San Francisco

EL MONTE, Los Angeles Co., Cal.—Until December 15, 3 P. M., bids will be received by Beatrice E. Darling, city clerk, to furnish and deliver cast iron water pipe, valves, fittings, etc. Certified check or bond of 10% required with bid. Specifications obtainable from clerk.

RENO, Nevada.—City council plans immediate purchase of two pumps and a water tank to be installed at sewage disposal plant to pump fresh water.

EMPIRE, Ore.—Until December 15, 11 A. M., bids will be received by Public Works Officer, Navy Yard, Bremerton, Wash., to construct water tank and water supply system at Naval Compass Station at Empire; will involve 20,000-gallon wooden tank and supporting structure on concrete piers and install new water system. Plans obtainable from Public Works Officer at Bremerton or from Radioman A. Empire.

SACRAMENTO, Cal.—New breaks have developed in the sedimentation basin at the Municipal Filtration Plant and will require immediate repairs "as the entire basin is liable to collapse at any time," according to reports submitted to the city council. Fred J. Klaus, city engineer, will submit estimates of cost for necessary repairs to the council shortly.

ELLINGHAM, Wash.—City council contemplates bond issue for \$500,000 to finance improvements and extensions to water system. Preliminary estimates of cost have been submitted by R. H. Thompson, engineer. Seattle.

SAN FRANCISCO.—E. J. Treacy, Call Bldg., at \$27,108 awarded contract by Board of Public Works to furnish and install water supply system in Sunset Blvd., involving:

- 10,900 lin. ft. 4-in. c. i. pipe;
- 5,450 lin. ft. 2-in. galv. w. i. pipe;
- 9,324 lin. ft. 1½-in. do;
- 10,920 lin. ft. 1¼-in. do;
- 27,405 lin. ft. ¾-in. do, (sprinkler lines);
- 5 4-in. body, brass trimmed, wedge gate, non-rising stem, standard valves with tub ends including 4-in. valve boxes and covers & socket wrenches;
- 270 brass lawn cocks, hinged cover and outlet threaded for 1-in. hose with 20 keys for above;
- 30 brass boxes with hanged covers for 2-in. gate valves.

BEVERLY HILLS, Cal.—Herbert M. Baruch Corp., 1015 Lincoln Bldg., Los Angeles, submitted the low bid to City Council at \$36,866 to construct Water Treatment plant No. 2.

The low bid on the equipment submitted by the International Filter Co., 108 W. Sixth St., Los Angeles, at \$19,755.

The bids were:

Treatment Plant—Herbert M. Baruch Corp., \$36,866; Nead Constr. Co., \$36,937; Harry Friedman, \$39,700; Fred F. Greenfield Co., \$37,326; Carpenter Bros., Inc., \$37,197.

Equipment—International Filter Co., \$19,755; Californian Filter Co., \$20,328; E. W. Bacharach & Co., \$25,000. Bids were referred to the Consulting Engineers, Salisbury, Bradshaw & Taylor, 745 Petroleum Securities Bldg., Los Angeles, for recommendations.

SAN FRANCISCO.—Until December 17, 3 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to furnish and install electrically driven centrifugal pump with appurtenances at the Mills Field Municipal Airport. Estimated cost, \$4,-

000. Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Specifications obtainable from Bureau of Engineering, 3rd floor, City Hall.

TIMBUCK, Stanislaus Co., Calif.—City council plans installation of a fifth auxiliary pumping plant in connection with the municipal water system. James Brown is city water superintendent.

SAN FRANCISCO.—E. J. Treacy, Call Bldg., at \$27,108 submitted low bid to Board of Public Works to furnish and install water supply system in Sunset Blvd., involving:

- 19,800 lin. ft. 4-in. c. i. pipe;
- 5,450 lin. ft. 2-in. galv. w. i. pipe;
- 9,324 lin. ft. 1½-in. do;
- 10,920 lin. ft. 1¼-in. do;
- 27,405 lin. ft. ¾-in. do, (sprinkler lines);
- 5 4-in. body, brass trimmed, wedge gate, non-rising stem, standard valves with tub ends, including 4-in. valve boxes and covers and socket wrenches;
- 270 brass lawn cocks, hinged cover and outlet threaded for 1-in. hose with 20 keys for above;
- 30 brass boxes with hanged covers for 2-in. gate valves.

Complete list of bids follows:

E. J. Treacy	\$27,108
Pacific Irrigation Co.	30,052
F. L. Burr	30,243
F. L. McHugh	31,983
J. Currie	33,904
Pacific Pipe Co.	34,046
L. J. Cohn	35,684
Calif. Const. Co.	35,642
C. B. Eaton	39,436

SACRAMENTO, Cal.—Rensselaer Valve Co., 55 New Montgomery St., San Francisco, at approximately \$4000 awarded contract by city council to furnish fire hydrants.

SAN DIEGO, Calif.—City Hydraulic Engineer H. N. Savage has recommended to the city council that a new pipe line from Dulzura Summit will be constructed to a reservoir in the vicinity of Mt. Helix or the Murray reservoir. The proposed line would be about 20 miles in length with a drop of about 30 ft. per mile. This would eliminate pumping. Preliminary profiles have been prepared.

SEATTLE, Wash.—Bids will be asked shortly by Board of Public Works to replace Cedar River Pipeline No. 1 from Warsaw St. to the Beacon Hill Reservoir. Alternate bids will be received on "cast iron, steel or concrete pipe." Approximately 8,600 ft. of pipe, 54-in. in diameter, is involved.

PALO ALTO, Santa Clara Co., Cal.—Formation of Santa Clara County Water Works District No. 1 was authorized by voters Dec. 1. This district contemplates the installation of

a water system to serve a portion of South Palo Alto, Santa Clara County, and will set date soon to vote on issuing bonds in the amount of \$30,630 for the construction of the water system improvements. Plans and specifications for these improvements are to be prepared by Consulting Engineers Burns, McDonnell-Smith Engineering Co., 422 Western Pacific Bldg., Los Angeles. R. B. Chandler, Court House, Santa Clara County, is the county surveyor. Henry A. Pfister is county clerk.

THE DALLES, Ore.—Until Dec. 15, 8 P. M., bids will be received by City Water Commission to furnish 2,000 ft. 8-in. and 5,500 ft. 6-in. cast iron pipe and a large assortment of fittings to be used in extensions and replacements in connection with municipal water system. Specifications obtainable from city clerk.

BEVERLY HILLS, Calif.—Herbert M. Baruch Corp., 1015 Lincoln Bldg., Los Angeles, at \$36,866 awarded contract by city to construct Water Treatment Plant No. 2. Bids for equipment still under advisement.

PLAYGROUNDS & PARKS

SAN DIEGO, Cal.—An election will be held between Jan. 27 and Feb. 15 to vote on a \$435,000 bond issue to match an equal sum offered by the state for four parks in San Diego County, according to an announcement by the county board of supervisors.

STREETS AND HIGHWAYS

SAN FRANCISCO.—Until Dec. 16, 2 P. M., bids will be received by State Harbor Commission to pave Pier No. 1 and portions of the Embarcadero adjoining Pier No. 1, involving:

- 93,750 sq. ft. 1½-in. Topeka wearing surface;
- 14,000 sq. ft. 2-in. Topeka wearing surface;
- 8,900 sq. ft. 1-in. minimum Topeka wearing surface on depressed track;
- 1,300 sq. ft. 1½-in. Topeka wearing surface on 3½-in. base;
- 150 cu. yds. concrete base;
- 3,720 sq. ft. concrete sidewalk, reconstruction of curbs and catchbasins.

State will furnish Portland Cement required in the work. Certified check 5% payable to Mark H. Gates, secretary of the Board, required with bid. Plans obtainable from Frank G. White, chief engineer of the commission.

SONOMA, Sonoma Co., Cal.—Town trustees have budgeted \$3000 to finance oil macadam paving in various streets.

DO NOT RISK AN EXPERIMENT

SPECIFY -- USE

Timpie Hydrated Lime

STRONG—PURE—PLASTIC

Ten Years of Uniformly Satisfactory Experience in High

Class Pacific Coast Construction

FOR BRICK MORTAR, WHITE COAT AND SAND FLOAT FINISH

Sold by Representative Dealers Everywhere

JAYWARD, Alameda Co., Cal.—Until December 17, 8 P. M., bids will be received by M. B. Templeton, city clerk, (\$26) to improve Prospect St., bet. Simon and Warren Sts., and Warren St., bet. Main and Prospect Sts., involving:

- (1) 700 sq. ft. concrete sidewalk;
- (2) 202 lin. ft. 4-in. vit. clay side sewer;
- (3) 34,923 lin. ft. 6-in. full penetration emulsified asph. macadam paving, including grading;
- (4) 54 lineal feet redwood header-board.

Estimated cost, \$5,000. 1911 Act and Bond Act 1915. Certified check 10% payable to city required with bid. Plans on file in office of clerk. Jesse B. Holly, city engineer.

SACRAMENTO, Cal.—Until Dec. 11, 8:15 P. M., bids will be received by H. G. Denton, city clerk, to furnish and spread 146,000 gallons of light asphalt on runways at the Sacramento Municipal Airport. Certified check 10% payable to City Controller required with bid. Specifications on file in office of clerk. Fred J. Klaus, city engineer.

SONORA, Tuolumne Co., Cal.—W. C. Colley, 35 North Hampton Street, Berkeley, at \$14,500 awarded contract by county supervisors to improve Montezuma road, for a distance of 3 1/4 miles. D. R. Hanify, at \$17,094, only other bidder. Project involves grading, culvert extensions and Bitumulus surface below Jamestown, connecting the state highway with the Big Oak Flat road near Chinese Camp.

OAKLAND, Cal.—Heafey-Moore Co. 444 High Street, Oakland, at \$83,500 awarded contract by city council to improve portions of Hopkins Street and portions of Hopkins Street, and Coolidge Ave., involving:

- 344,626 sq. ft. grading, \$.02.
- 852 lin. ft. conc. curb with steel curb guard, \$.70.
- 10,350 lin. ft. conc. curb, \$.50.
- 270,020 sq. ft. conc. pavement, \$.216.
- 923 sq. ft. concrete driveway, \$.25.
- 60,816 sq. ft. conc. sidewalks, \$.15.
- 188 lin. ft. 10-in. vit. pipe conduit with conc. covering, \$1.25.
- 14 lin. ft. 10-in. pipe conduit, \$1.25.
- 101 lin. ft. 12-in. do., \$1.23.
- 46 lin. ft. 12-in. do., \$1.45.
- 28 lin. ft. conc. box culvert with reinforced top, \$2.40.
- 2 concrete handholes with cast iron covers, \$15.
- 2 concrete inlets with cast iron grating, \$20.
- 1 manhole, \$60.
- 1 storm water inlet (Type A), \$30.
- 12 storm water inlets (34-in. opening), \$25.
- 176 lin. ft. 8-in. vit. pipe sewers, \$1.
- 2347 lin. ft. 5-in. vit. pipe side sewers, \$.60.
- 9 manhole tops, \$23.
- 2 lampholes, \$15.
- 1 lamphole to be reinforced, \$7.
- 4 Y branches, \$.50.

1911 Act. City will pay 22 1/2% of total cost from Treasury. Complete list of unit bids published in issue of Dec. 5th.

OAKLAND, Cal.—A. Soda, 1139 65th St., Oakland, at \$1,625 sq. ft. awarded contract by city council to construct concrete sidewalks in portions of Ney Ave., Ritchie St., 82nd Ave., and Monticello Ave.

OAKLAND, Cal.—A. Soda, 1139 65th St., Oakland, at \$16 sq. ft. awarded contract by city council to construct cement concrete sidewalks in portions of Allendale Ave., Birdsall Ave. and 57th Ave.

OAKLAND, Cal.—City council declares intention to improve Patterson Ave. adjacent to Harbor View Ave., involving:

- (1) 608 cu. yds. excavation;
- (2) 305 lin. ft. cement curb;
- (3) 616 sq. ft. concrete gutter;
- (4) 474 sq. ft. penetration macadam pavement;
- (5) 1413 sq. ft. cement sidewalk;
- (6) 136 lin. ft. 6-in. pipe sewer;
- (7) 1 manhole;
- (8) 1 lamphole;
- (9) 6 Y branches.

Est. cost \$2300. 1911 Act. Hearing Dec. 24. Chas. M. Don, acting city clerk. Walter N. Frickstad, city engineer.

OAKLAND, Cal.—City council declares intention to improve Macdonald Ave. bet. Florence and Moraga Aves., and portions of Florence and Proctor Aves., Amy Drive and Moraga Ave. adjacent to Masonic Ave., involving:

- (1) 11,673 cu. yds. excavation;
- (2) 5,526 lin. ft. concrete curb;
- (3) 11,078 sq. ft. concrete gutter;
- (4) 80,531 sq. ft. concrete penetration macadam pavement;
- (5) 13,597 sq. ft. concrete cement sidewalks;
- (6) 30 lin. ft. 8x29-in. corr. iron and cement culvert;
- (7) 10 lin. ft. 8x24-in. do.;
- (8) 74 lin. ft. 12-in. reinf. concrete pipe conduit;
- (9) 336 lin. ft. 15-in. do.;
- (10) 55 lin. ft. 12-in. extra strength reinf. conc. pipe conduit;
- (11) 206 lin. ft. 15-in. do.;
- (12) 1 storm water inlet (2-inch opening);
- (13) 6 storm water inlets (34-in. opening);
- (14) 4 concrete handholes with cast iron covers;
- (15) 1 manhole;
- (16) 59 lin. ft. wooden culvert.

Est. cost \$35,815. Street Imp. Act 1913. Hearing Jan. 8. Chas. M. Don, acting city clerk. Walter N. Frickstad, city engineer.

SAN FRANCISCO.—Bids will be asked shortly by S. J. Hester, secretary, Board of Public Works, to improve Montgomery St. from Union to Greenwich Sts.; Alta St. from Montgomery to point 303 ft. easterly; Filbert St. from Montgomery to point 16 ft. westerly and from Montgomery to point 22 ft. easterly; Greenwich St. from Montgomery to point 22 ft. westerly, involving:

- 3,040 cu. yds. excavation;
- 1,255 cu. yds. "B" concrete (retaining walls, balustrade, stairs, fences);
- 115,000 lbs. reinforcing steel;
- 1,540 lin. ft. 4x4-in. reinf. concrete fence, single rail;
- 23,600 sq. ft. 6-in. "E" concrete pavement;
- 11,200 sq. ft. 8-in. waterbound macadam base and oiled surface;
- 6 tons asphalt concrete conform pavement;
- 2,740 lin. ft. armored concrete curb;
- 6,999 sq. ft. 1-course concrete sidewalk;
- 250 lin. ft. 4x16-in. redwood curb;
- 33 lin. ft. wood guard rail, heavy type;
- 450 lin. ft. wood fence, light type;
- 190 lin. ft. wood bulkhead;
- 110 lin. ft. 2-pipe railing concrete posts;
- 3 9-unit rod warning reflectors;
- 810 lin. ft. 8-in. vitrified sewer;
- 540 lin. ft. 12-in. do.;
- 20 lin. ft. class B 8-in. cast iron sewer;
- 35 lin. ft. class B 12-in. do.;
- 140 lin. ft. six-inch vitrified side sewer;
- 32 8x6-in. Y's or T's;
- 10 12x6-in. do.;
- 120 lin. ft. 12-in. vitrified culvert;
- 15 brick manholes;
- 6 brick catchbasins;

2 storm water inlets;
1 lighting system (complete);
Work under Street Improvement Ordinance of 1918.

SAN LUIS OBISPO, Calif.—County supervisors have declared their intention to join with Kings and Kern counties in the construction of the Cottonwood Pass Highway, from the Kings-Fresno county line to the Cholame Lateral at Cholame. Kings county has \$80,000 for its share of the cost and according to tentative estimates \$42,000 would be required of San Luis Obispo county. The road would be graded and graveled according to state specifications and taken over by the state upon completion.

MILL VALLEY, Marin Co., Calif.—McDonald & Magorrio, Sausalito, at \$7,384.76 awarded contract by town trustees to improve portions of Blithedale Ave. involving grading, hyd. concrete paving, hyd. conc. curbs, walks. Complete list of bids follows:

McDonald & Magorrio.....	\$ 7,384
L. J. Immel, Berkeley.....	9,018
Louis Lambretti, San Rafael.....	9,014
G. M. McGaw, Stockton.....	8,773
J. B. Galbraith, Petaluma.....	9,160
F. J. Main, Fairfax.....	10,998
Engineer's estimate.....	9,330

KERN COUNTY, Calif.—Until Dec. 30, 2 P. M., bids will be received by State Highway Commission to grade and surface portions with bituminous macadam on 3.0 miles between Harts Station and 3 miles east. C. H. Purcell, state highway engineer.

See call for bids under official proposal section in this issue.

SAN JOSE, Santa Clara Co., Calif.—Until Dec. 15, 8 P. M., bids will be received by John J. Lynch, city clerk (\$238) to improve Morse and Chapman Sts., between Fremont and Singletary Aves., involving grading, 1 1/2-in. asph. concrete surface pavement on 2 1/2-in. asph. concrete base; cement concrete sidewalks, curbs, vit. pipe lateral house sewers. 1911 Act. Cert. check 10 per cent payable to city required with bid. Plans on file in office of clerk. Wm. Popp, city engineer.

EUREKA, Humboldt Co., Calif.—Thomas Englehart, Eureka, at \$171 cubic yard awarded contract by city council to furnish 1,000 cu. yds. gravel for street department. Mercer-Fraser Co., Eureka, only other bidder at \$1.83 cu. yd.

SAN FRANCISCO.—Board of Public Works rejects bids to remove sand from roadway and sidewalk areas and construct bulkheads in west half of 43rd Ave. from Kirkham St. to point 50-ft. northerly and in east half of 25th 50-ft. northerly and in east half 25th northerly.

SAN FRANCISCO.—C. N. Douglas, 1203 Waller St., awarded contract by Board of Public Works to remove sand from sidewalk and roadway and construct bulkhead in west half of 19th Ave. from point 103-ft. south if Rivera St. to point 128-ft. 4-in. south.

SAN FRANCISCO.—A. J. Bin, 2585 San Bruno Ave., awarded contract by Board of Public Works to remove sand from sidewalk and roadway and construct bulkhead in west half of 25th Ave. from point 331-ft. 6-in. south of Santiago St. to point 375-ft. southerly.

PETALUMA, Sonoma Co., Calif.—Until December 15, 7:30 P. M., bids will be received by Gladys V. Roberts, city clerk, to improve Martha Street bet. Kentucky and Main Sts. Certified check 10% payable to city required with bid. Plans on file in office of clerk.

HILLSBOROUGH, San Mateo Co., Cal.—Town trustees are considering estimates of cost for concrete and asphalt paving in the Brewster Tract. Definite action is expected at the December 16 meeting of the board.

SAN FRANCISCO.—Until Dec. 18, 2 P. M. bids will be received by State Board of Harbor Commissioners, Ferry Bldg., for paving Pier No. 1. Frank Whit, engineer, Ferry Bldg. Cost is estimated at approximately \$10,000.

OAKLAND, Cal.—A. Soda, 1139 65th St., Oakland, at \$16 sq. ft. submitted low bid to city council to construct cement concrete sidewalks in portions of Alameda Ave., Birdsell Ave. and 57th Ave. Complete list of bids follows:
A. Soda, 1139 65th St., Oakland, \$16.
V. Dizillo, 1022 53rd St., Oakland, \$23.

L. H. Fitzmaurice, 354 Hobart St., Oakland, \$174.

OAKLAND, Cal.—A. Soda, 1139 65th St., Oakland, at \$16.25 sq. ft. submitted low bid to city council to construct cement concrete sidewalks in portions of New Ave., Ritchie St., 82nd Ave. and Montecello Ave. Complete list of bids follows:

A. Soda, 1139 65th St., Oakland, \$16.25.

V. Dizillo, 1022 53rd St., Oakland, \$19.

L. H. Fitzmaurice, 354 Hobart St., Oakland, \$165.

OAKLAND, Cal.—Following bids received by city council to improve portion of 92nd Ave., involving:

(1) 50,637 sq. ft. grading;
(2) 1,626 lin. ft. concrete curb;
(3) 3,259 sq. ft. concrete gutter;
(4) 27,172 sq. ft. penetration macadam pavement;

(5) 2 storm water inlets (Type E);
(6) 153 lin. ft. 21-in. reinf. conc. pipe conduit;

(7) 114 lin. ft. 18-in. conc. pipe conduit;
(8) 80 lin. ft. 12-in. conc. pipe conduit;

(9) 765 lin. ft. 8-in. vit. pipe sewer;
(10) 4 manholes;
(11) 16 Y branches.

(A) Ed. Bowman, 311 Sunset Blvd., Hayward.

(B) J. H. Fitzmaurice, 354 Hobart St., Oakland.

(C) Heafey-Moore, 341 High St., Oakland.

	(A)	(B)	(C)
(1) .....	.005	.04	.025
(2) .....	.60	.65	.65
(3) .....	.22	.25	.25
(4) .....	.12	.14	.149
(5)	60.00	75.00	125.00
(6)	3.00	4.50	2.17
(7)	2.30	3.50	1.54
(8)	1.45	2.00	.99
(9)	1.40	1.00	.64
(10)	50.00	75.00	50.00
(11)	1.00	1.50	.60

OAKLAND, Cal.—City council declares intention to improve Masonic Ave., bet. Florence and Moraga Aves., and portions of Florence and Proctor Aves., Amy Dr. and Moraga Ave. adjacent to Masonic Ave., involving grading; curbs; gutters; penetration macadam pavement; cem. walks; reinf. conc. pipe conduit; wood culverts, etc. Est. cost \$35,815. Street Imp. Act 1913. Hearing January 8. Chas. M. Don, acting city clerk. Walter N. Frickstad, city engineer.

STOCKTON, San Joaquin Co., Cal.—Lilly, Willard and Biasotti, Stockton, at \$1,682 awarded contract by State Department of Public Works, Division of Architecture, to resurface roadways at the Stockton State Hospital grounds.

SAUSALITO, Marin Co., Cal.—Town trustees plan placing rock foundation with bitumuls and rock screenings surface along Valley St. from Second to West St. and approx. 180-ft. in Fourth St., involving 19,000 sq. ft. in all.

PLUMAS COUNTY, Cal.—Until December 30, 2 P. M., bids will be received by C. H. Sweetser, district engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, to grade 7.99 miles of Section F, Route 23, Highway-Beechwith National Forest, 194-way in Plumas County, involving:

29 acres clearing;
73,180 cu. yds. unclass. excavation;
660 cu. yds. struc. excavation;
97,800 sta. yds. overhaul;
7,912 miles finishing;

85 M.B.M. treated timber in place;
1,600 lin. ft. treated timber piling in place;

100 cu. yds. concrete in place;
125 cu. yds. reinf. steel in place;
2,322 lin. ft. corrug. metal pipe in place;

655 sq. yds. bituminous wearing surface in place;

102 right of way monuments.

Plans obtainable from engineer on deposit of \$10, returnable, checks for same to be made payable to Federal Reserve Bank of San Francisco.

COCONINO COUNTY, Ariz.—C. G. Willis & Sons, 2119 E. 25th St., Los Angeles, submitted low bid to Bureau of Public Roads, Phoenix at \$149,068.60 for grading of Section C, Route 7, Oak Creek National Forest; 2318 mi. in length, involving: 22 acres clearing; 149,000 cu. yds. excav., unclassified; 1850 cu. yds. excav. for structures; 143,600 sta. yds. overhaul; 2,818 miles finishing earth graded rds; 6000 lin. ft. wood guard rail; 198 cu. yds. class A and 156 cu. yds. class D concrete; 47,629 lbs. reinf. steel; 320 cu. yds. cement rubble masonry; 1552 lin. ft. corr. metal pipe; 147,000 lbs. structural steel; 940 cu. yds. hand laid rock embankment.

OAKLAND, Cal.—City council declares intention to improve Patterson Ave. adjacent to Harbor View Ave., involving grading; curbs; gutters; walks; paving. Est. cost \$2300. 1911 Act. Hearing Dec. 24. Chas. M. Don, acting city clerk. Walter N. Frickstad, city engineer.

SAN FRANCISCO.—Bureau of Engineering, Department of Public Wks., 3rd floor, City Hall, completes specifications to construct 3,000 sq. ft. artificial stone sidewalks in the north half of Silver Ave. from Congdon St. to point 1,722-ft. easterly. Estimated cost, \$300.

CARMEL, Monterey Co., Cal.—City council will start proceedings at once to pave Seventh St. bet. Dolores and Lincoln Sts., including curbs and gutters, and Lincoln St. bet. 7th St. and Ocean Ave., also one block of Sixth St. bet. Mission and Junipero Sts. Resolution of intention will be passed shortly to pave Sixth St. bet. Monte Verde and San Carlos and Monte Verde, Lincoln and Dolores Sts. bet. 6th St. and Ocean Ave.

SACRAMENTO, Cal.—Seagrave Corp., at \$6000 awarded contract by city council to furnish one 550-gal. pumper for new fire station at Stockton Blvd. and Sixth Ave. Mack International Truck Co., only other bidder at \$6800.

PACIFIC GROVE, Monterey Co., Cal.—City council declares intention (3305) to improve Fifth St. between

Ocean View and Lighthouse Aves., and Cypress Ave. and Granite St., bet. Lighthouse Ave. and Laurel Ave., and bet. Laurel Ave. and Pine Ave., involving cem. conc. curbs and gutters; oil macadam surface pavement (composed of graded rock not less than 13 lbs. sq. ft.) and Duremulse emulsified asphalt; cem. concrete driveways; 4-in. vit. clay lateral sewers. 1911 Act. Bond Act 1915. Hearing Jan. 2. Elgin C. Huribert, city clerk.

OAKLAND, Cal.—Until December 18, 12 noon, bids will be received by Frank C. Merritt, city clerk, to improve Foothill Blvd., bet. Parker Ave. and Hollywood Blvd., and portions of Jones and Truman Aves., adjacent to Foothill Blvd. Project involves:

(1) 436,393 sq. ft. grading;
(2) 713 lin. ft. conc. curb with steel curb guard;

(3) 15,733 lin. ft. conc. curb;
(4) 475,428 sq. ft. conc. pavement;

(5) 654 lin. ft. 2-ft. 3-in. by 3-in. concrete culvert;

(6) 200 lin. ft. 10-in. vit. pipe conduit;
(7) 96 lin. ft. 12-in. do;

(8) 1114 lin. ft. 15-in. do;
(9) 69 lin. ft. 15-in. extra strength reinf. conc. pipe conduit;

(10) 67 lin. ft. 18-in. vit. pipe conduit;
(11) 202 lin. ft. 21-in. do;

(12) 518 lin. ft. 24-in. do;
(13) 6 concrete inlets with cast iron top (34-in. opening);

(14) 1 storm water inlets (Type A);
(15) 3 storm water inlets (21-inch opening);

(16) 13 storm water inlet (34-inch opening);
(17) 5 manholes with standard top;

(18) 2 manholes with inlet top (34-in. opening);
(19) 1 15-in. lamphole.

1911 Act. City will pay 41% of the total cost from Treasury. Certified check 10% payable to city required with bid. Plans on file in office of clerk. Walter N. Frickstad, city engineer.

SAN DIEGO COUNTY, Cal.—V. R. Dennis Construction Co., San Diego, at \$227,453 awarded contract by State Highway Commission to grade and pave with asphalt concrete, 6 miles between Araz and Yuma.

SANTA CLARA COUNTY, Cal.—Contoules Constr. Co., 46 Collins St., San Francisco, at \$121,284 awarded contract by State Highway Commission to grade and pave with bituminous macadam, 10.7 miles between San Felipe and one mile east of Bellis Station.

FOWLER, Fresno Co., Cal.—City trustees declare intention (235) to construct cement sidewalks (7 ft. wide) and cement curbs in portions of 8th St. Hearing Dec. 22. George Weseman, city clerk.

KING CITY, Monterey Co., Cal.—City council declares intention (7) to improve portions of Mildred Ave., involving grading; hydraulic cement concrete curbs; 5-inch hydraulic cement concrete pavement. 1911 Act. Hearing Dec. 22. K. Z. Mansfield, city clerk. Howard Cozens, Salinas, engineer.

PALO ALTO, Santa Clara Co., Cal.—City council rescinds resolution of Intention No. 936 providing for paving, vit. sewers, water services, etc., in Palo Alto Ave., Hale St., Pope St., etc., and a new proceedings will be started, eliminating certain streets in the proposed area. J. F. Byxbee, Jr., city engineer.

(Continued on Page 32)

Contracts Awarded

Liens, Acceptances, Etc.

BUILDING PERMITS

San Francisco County

No.	Owner	Contractor	Amt.
1563	Allison	Owner	3800
1564	California	Spivock	3900
1565	Meyer	Owner	4000
1566	Meyer	Owner	4000
1567	Morgan	Acme	5250
1568	Rogers	Owner	4000
1569	Rogers	Owner	4000
1570	Zimmerman	Bienfield	3500
1571	Johnson	Owner	3500
1572	Kennedy	Erickson	4000
1573	Lennon	Owner	4000
(1574)	Ingermann	Owner	4000
1575	Jose	Owner	150000
1576	Martini	Sorbi	1500
1577	Martini Bldg	Owner	1000
1578	Sullivan	Owner	7000
1579	Thuran	Jorgensen	8000
1580	White House	McFarland	1000
1581	Helbing	Owner	80000
1582	Landsburg	Pereira	3100
1583	Heyman	Owner	9000
1584	Herman	Segurson	8000
1585	Liebman	Owner	50000
1586	Miller	Owner	2800
1587	Meyer	Owner	5000
1588	Udell	Owner	1000
1589	Rosencrantz	Owner	1000
1590	Reuter	Owner	3000

DWELLING

(1563) N KIRKHAM 107 W 27th Ave., one-story and basement frame dwelling.
Owner—R. Allison and J. Beck, 1312 Fulton Street.
Architect—None. \$2300

ALTERATIONS

(1564) 1359 FOLSOM ST.; alterations and additions to cleaning works.
Owner—California Cleaning and Dyeing Works, 1359 Folsom St.
Engineer—J. A. Reaney.
Contractor—W. Spivock, Hobart Bldg. \$3300

DWELLING

(1565) S PORTOLA 133 W Evelyn; one-story and basement frame dwelling.
Owner and Builder—Meyer Bros., 727 Portola Drive.
Plans by D. T. Burks. \$4000

DWELLING

(1566) S PORTOLA 203 S Evelyn; one-story and basement frame dwelling.
Owner and Builder—Meyer Bros., 727 Portola Drive.
Plans by D. T. Burks. \$4000

DWELLING

(1567) E JOSIAH ST. 100 S Ridge-lane; two-story and basement frame dwelling.
Owner—C. E. Morgan, 2832 San Jose Avenue.
Plans by F. Nelson, care owner.
Contractor—Acme Construction Co., 301 Evergreen Ave. \$5250

DWELLING

(1568) W 29th AVE. 225 N Taraval; one-story frame dwelling.
Owner and Builder—H. W. Rogers, 1695 21st Ave.
Architect—Not Given. \$4000

DWELLING

(1569) W 31st AVE. 350 N Taraval; one-story frame dwelling.

Owner and Builder—J. W. Rogers, 1695 21st Ave.
Architect—Not Given. \$4000

ALTERATIONS

(1570) SW SANSOME and Merchant Sts.; alterations to commercial building.
Owner—H. and G. Zimmerman, care contractor.
Architect—Willis Polk & Co., 277 Pine Street.
Contractor—D. L. Bienfield, 666 Mission St. \$3500

DWELLING

(1571) N POPE 150 E Moise; one-story and basement frame dwelling.
Owner—N. E. Johnson, 666 Mission.
Architect—Not Given. \$3500

DWELLING

(1572) N LIEBIG 200 W Lessing; 1-story and basement frame dwelling.
Owner—Mr. and Mrs. D. Kennedy, 263 Frankfort St., Daly City.
Architect—Not Given.
Contractor—H. Erickson, 372 Chenery Street. \$4000

APARTMENTS

(1573) N OAK ST. 127 W Octavia; three-story and basement frame (24) apts.
Owner—Lennon Estate, % architect.
Architect—Krafft and Sons, Phelan Bldg.
Engineer—A. J. Krafft, Phelan Bldg. \$40,000

(1574) E TWENTIETH AVE 30 S Santiago. One-story and basement frame dwelling.

Owner—C. Ingermann, 2395 20th Ave., San Francisco.
Architect—Fabre & Hildebrand, 110 Sutter St., San Francisco. \$4000

APARTMENTS

(1575) N JACKSON 85 E Gough; six-story and basement class C (26) apartments.
Owner and Builder—E. Jose, 251 Kearny Street.
Architect—H. C. Baumann 251 Kearny Street. \$150,000

DWELLING

(1576) 3948 26th ST.; one-story and basement frame dwelling.
Owner—Mrs. M. Martini, 3948 26th St.
Plans by Owner.
Contractor—A. Sorbi, 224 Russia St. \$1500

CAPITAL CITY TILE COMPANY

J. C. PALEN

Manager

914 Seventh Street

Sacramento - - - - California

ALTERATIONS

(1577) 1174-78 MARKET ST.; alterations to stores.
Owner—Market Street Building Corp., 1182 Market St.
Architect—Not Given. \$1000

DWELLING

(1578) SE DARIEN and Westgate; one-story and basement frame dwelling.
Owner—T. J. Sullivan, 1967 Ocean Avenue.
Architect—E. Boldemann, 1967 Ocean Avenue. \$7000

DWELLING

(1579) S MARINA 314 W Fillmore; two-story frame dwelling.
Owner—A. Thuran.
Architect—Irvine and Ebbetts, Call Building.
Contractor—M. P. Jorgenson, 2225 No. Point St. \$8000

ALTERATIONS

(1580) 174 14th STREET, alterations to dry cleaning plant.
Owner—The White House Dyeing & Cleaning Works, 174 14th St.
Architect—Not Given.
Contractor—J. McFarland, 126 Otis St. \$1000

APARTMENTS

(1581) S BROADWAY 137 E Webster Street; seven-story and basement class A (7) apts.
Owner—Wm. Helbing, Sr., 1310 Lombard St.
Architect—H. S. Helbing, 1310 Lombard St.
Contractor—The Helbing Co., 1310 Lombard St. \$80,000

ALTERATIONS

(1582) 3225 GOUGH ST.; alterations for two flats.
Owner—Mrs. C. E. Landsburg, 3225 Gough St.
Architect—Not Given.
Contractor—J. A. Pereira, 1601 20th Avenue. \$3100

DWELLINGS

(1583) E 30th AVE. 300 N Fulton St.; two 1-story and basement frame dwellings.
Owner and Builder—Heyman Eros, 742 Market St.
Plans by Owner. each \$4500

DWELLING

(1584) S BUENA VISTA 558 W Park Hill; 2-story and basement frame (3 family) dwelling.
Owner—Mrs. A. Herman, Ross, Calif.
Architect—Not Given.
Contractor—G. M. Segurson, 282 Oak Street. \$8000

APARTMENTS

(1585) NW PRADO and Cervantes; three-story and basement frame (21) apts.
Owner—E. Liebman, 1555 Francisco.
Architect—E. R. Irvine, Call Bldg. \$50,000

DWELLING

(1586) W ANDERSON 25 S Crescent; 1-story and basement frame dwelling.
Owner—W. Miller, 67 Lyell St.
Architect—Not Given. \$2800

STORE & HALL

(1587) S PORTOLA 72 S Evelyn; 2-story and basement frame store and hall.

Owner and Builder—Meyer Bros., 727 Portola Drive.
Plans by D. T. Burks, care owner.
\$5000

ALTERATIONS

(1588) 1 ASHTON AVE.; alterations to foundations.
Owner—L. Udell, 1 Ashton Ave.
Architect—Not Given. \$1000

ALTERATIONS

(1589) 2611 PINE ST.; alterations to flats.
Owner—H. Rosencrantz, 1775 Oak St.
Architect—Not Given. \$1000

DWELLING

(1590) W 19th AVE. 75 N Quintara; one-story and basement frame dwelling.
Owner—F. Reuter, 1205 4th Ave.
Architect—Not Given. \$3000

BUILDING CONTRACTS

San Francisco County

No.	Owner	Contractor	Amt.
244	Elterovich	Amatore	7400
245	Crocker	Tassi	13326
247	Crocker	Tassi	2019
248	Crocker	Tassi	2690
246	Western	Rosenberg	

STORE, ETC.

(244) NW MISSION ST. 113-497 NE Geneva Ave.; all work on store, dwelling and sub-basement bldg.
Owner—Mary and Nick Elterovich.
Architect—Not Given.
Contractor—Frank Amatore, 1392-A Hampshire St.

Filed Dec. 5, '30. Dated Nov. 19, '30.
Roof on \$1850
Brown coated 1850
Completed 1850
Usual 35 days 1850
TOTAL COST, \$7400

Bond, \$7400. Sureties, Massachusetts Pondering & Inv. Co. Forfeit, \$1 per day. Limit, 90 days.

ALTERATIONS

(245) 145-155-175 FREMONT Street; all work for alterations and improvements.
Owner—Crocker First Federal Trust Company.
Architect—Not Given.

Contractor—J. A. Tassi, 268 Market Street.

Filed Dec. 5, '30. Dated Dec. 2, '30.
5th of each month75%
Usual 35 days25%
TOTAL COST, \$13,326

Bond, \$13,326. Sureties, Associated Indemnity Corp. Limit, 45 days.

FILLING, GRADING, ETC.

(246) IN ISLAIS CREEK Reclamation District; filling, grading, etc.
Owner—The Western Pacific R. R. Co.
Architect—Not Given.

Contractor—Meyer Rosenberg, 1755 S San Bruno Ave.

Filed Dec. 6, '30. Dated Nov. 20, '30.
20th of each month90%
36 days after10%
COST, 29c cubic yard

Bond, \$150,000. Sureties, Fidelity and Deposit Co. of Maryland. Limit, Jan. 1, 1933. Plans and Spec. filed.

PLUMBING & HEATING

(247) 145-155-175 FREMONT Street; plumbing and heating work for building.

Owner—Crocker First Federal Trust Company.
Architect—Not Given.

Contractor—J. A. Tassi, 268 Market St., with Geo. N. Zaro, sub-contractors, 3150 Turk St.

Filed Dec. 10, '30. Dated Dec. 5, '30.
10th of each month75%
Usual 35 days25%
TOTAL COST, \$2019.85

Bond, \$1990. Sureties, New Amsterdamm Casualty Co. Limit, Dec. 31, '30.

(248) CARPENTRY Work on above.
Contractor—J. A. Tassi, 268 Market St., with The Fink & Schindler Co., 223 13th St., subcontractors.
Filed Dec. 10, '30. Dated Dec. 5, '30.
10th of each month 75%
Usual 35 days 25%
Bond, \$2690. Sureties, Globe Indemnity Co. Limit, Dec. 31, 1930.

COMPLETION NOTICES

San Francisco County

Recorded Accepted
Dec 5, 1930—W 21st AVE 25 North Lawton 25x35. J and S E Carlson to J Carlson Dec 4, 1930
Dec 5, 1930—W 25th AVE 250 South Ulloa S 25 x W 120. N E Johnson to whom it may concern December 4, 1930
Dec 5, 1930—VICINITY SELBY ST and Innes Ave. Southern Pacific Co to L Johnson Dec 2, 1930
Dec 4, 1930—S CABRILLO ST 30 E 21st Ave E 30 x S 100. M P Storheim to whom it may concern November 24, 1930
Dec 4, 1930—LOT 43 BLOCK 6418 Crocker Amazon Tract Sub No 2. Henry W and Mae I Petersen to whom it may concern November 26, 1930

Dec 4, 1930—LOT 24 BLK 20, map Forest Hill. Aug J Lang Jr to whom it may concern Dec. 1, 1930
Dec 3, 1930—SE LINE LOT 2 BLK 30 West End Map No 1, 125 SW Seneca Ave SW 24-505 NW 148-205 NE 25-007 SE 143-031. L and R Schiavi to whom it may concern December 1, 1930

Dec 3, 1930—SE WAWONA 3 NE dividing line lots 28 and 30 blk 2433 SW 35 SE 34 NE 35-067 NW 85, all lot 29 ptn lots 23 and 30 blk 2843 Map West Portal Park. B Geo Van Aalst to whom it may concern December 2, 1930
Dec 3, 1930—4315 LINCOLN WAY. M Phillip to whom it may concern December 2, 1930

Dec 3, 1930—350 SAN BENITO Way. Geo T Gerhardt to C T Magill November 28, 1930
Dec 3, 1930—NW HOLYOKE AND Bacon, No 1049 Bacon St. Wm F Ferroglaro to Wm Beyer November 15, 1930

Dec 3, 1930—W 25th AVE 200 S Rivera S 50 x 120. H Christensen to whom it may concern December 2, 1930

Dec 3, 1930—NW 16th and Church. American Chile Co to I W Coubert December 2, 1930

Dec 3, 1930—SE WAWONA dist 3 NE from dividing line bet lots 29 and 30 blk 2483 map West Portal Park SW 35 SE 34 m or I NE 35-067 NW 85 m or I blk 2483 map West Portal Park. B Geo Van Aalst to whom it may concern December 2, 1930

Dec 5, 1930—SELBY ST bet Oakdale and Evans Aves. Islais Creek Reclamation District to M B McGowan December 2, 1930

Dec 5, 1930—E 27th AVE 150 North Ulloa N 25 x E 120. Peder Andersen to whom it may concern December 5, 1930

Dec 6, 1930—SE PERU and Madrid 50x50, No. 200 Peru St. D F O'Leary to whom it may concern December 2, 1930

Dec 10, 1930—E 24th AVE 165 N Kirkham St 27-3x111. C Andersen to whom it may concern December 10, 1930

Dec 10, 1930—SE PERU and Madrid Sts 50x50, No 101 Madrid St. R Kovas to whom it may concern December 9, 1930

Dec 6, 1930—N CLAY 112-6 West Franklin W 92-9 N 127-8-4. E 68-9 SE 35-44 S 102-8-4. A J and G A Pulvey and M W Harriman to whom it may concern December 5, 1930

Dec 6, 1930—E BRODERICK 112-6 N North Point St N 25 x E 85. Jas W and E McCabe to whom it may concern December 3, 1930
Dec 7, 1930—W DIAMOND 45-6 N Clipper N 33-6 x W 80. E S and L O McConoy to H H Garfield December 3, 1930

Dec 6, 1930—W DOUGLASS 175 N 21st N 25-1 W 150 S 25-1 E 150. Guglielmo Micheletti to Phillip Miller & Sons Dec 4, 1930

Dec 6, 1930—LOTS 5, 6 7 and 8. Blk 6965B Sub No 1, Geneva Terraces ptn lots 21 and 22 blk 6965A Sub No 1 Geneva Terraces, desc'd: Comg at pt on W curved line Seneca Ave dist 5-8 S from NW line lot 21 S 34-8 SW 126-061 to pt on SW line lot 22 dist 7-877 SE from NW line said lot 22 NW 23-234 to pt on SW line said lot 21 dist 3-794 SE from NW line thereof NE 131-301 to beg; ptn lots 22 and 23 blk 6965A Sub No 1, Geneva Terraces desc'd: Comg at pt on W curved line Seneca Ave dist 11-6 S from NW line lot 22 S 34-8 SW 113-31 NW 24-552 NE 126-061 to beg; ptn lots 23 and 24 blk 6065A Sub No 1 Geneva Terraces desc'd: Comg W curved line Seneca Ave dist 17-4 S from NW line lot 23 S 34-8 W 107-665 NW 26-408 NE 118-31 to beg. Henry and Hazel Stoneson to whom it may concern December 2, 1930

Dec 6, 1930—LOTS 2, 3, 4, 5, and 6 Blk 3005D map Elks 3004B, 3005B, 3005C, 3005D and ptns blks 2973, 3031 and 3054 Westwood Highlands. That ptn lots 20 and 21 blk 3005C Westwood Highlands desc'd: N Hazelwood Ave which is perpen dist 19-5 W of E line lot 20 W 37-731 N 132-242 E 37-5 S 136-862 to beg; That ptn lot 21 blk 3005C Westwood Highlands and also that ptn of alley ad said lot 21 on the W desc'd: N Hazelwood Ave which is perpen dist 20 W of E line lot 21 W alg N Hazelwood Ave and Alg S line of vacated alley, 37-065 N 128-109 E 20-11 E 17 S 132-242 to beg. Henry & Hazel Stoneson to whom it may concern December 2, 1930

LIENS FILED

San Francisco County

Dec 4, 1930—W EIGHTH and Mission NW 275 x SW 275. Trences Glass Co vs W Kazarari and Panama Realty Co, Inc \$40
Dec 4, 1930—S DUBOCE AVE 100 E Noe E 25 x S 105. J II Baker vs M A Dempsey \$910.91
Dec 4, 1930—SE ROOSEVELT 122-24 and 147-24 SW Levant SW 25 x SB 60. Star Concrete Co vs J Harder Jr, F Balliet and F Hale \$132.50
Dec 3, 1930—E ELGIN PARK 125 N Duboce Ave N 25 x E 75. Hanston Bros vs N M and M Kullander \$390

RELEASE OF LIENS

San Francisco County

Recorded	Amount
Dec 9, 1930—SE ROOSEVELT Way 147-24 SW Levant SW 25 x SE 60 ptn blk 16 Flint Tract Hd Assn. Star Concrete Co to F Palmet and F Hale	

BUILDING PERMITS

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
1472	Gray	Christensen	5000
1473	Osborne	Rose	1800
1474	Reininghaus	Owner	3500
1475	Toselli	Marletti	2000
1476	Person	Owner	4000
1477	Lyon	Owner	3250
1478	American	Grey	1800
1479	Church	Windsor	6500
1480	Kroger	Kroger	2200
1481	Kroger	Kroger	2200
1482	Kinley	Owner	45000
1483	La Place	Roth	10000
1484	Pelletier	Allen	4000
1485	Stoker	Anderson	7500
1486	Fleming	Owner	4500
1487	Leekins	Owner	3900
1488	Dooley	Owner	3000
1489	Tucciarone	Owner	5750
1490	Morehouse	Leekins	1000

ALTERATIONS

(1473) NE COR. 20th and Broadway, **OAKLAND**; alterations.
Owner—The Gray Shop, 15th and Clay Streets, Oakland.
Architect—Alben Froberg, Ray Bldg., Oakland.
Contractor—H. J. Christensen, Ray Bldg., Oakland. \$5000

REPAIRS

(1473) 2557-59 64th AVENUE, **OAKLAND**; fire repairs.
Owner—Mr. Osborne, 520 13th Street, Oakland.
Architect—Not Given.
Contractor—A. H. Rose, 478 25th St., Oakland. \$1800

RESIDENCE

(1474) 30 MENLO PLACE, **BERKELEY**; one-story 6-room 1-family frame residence.
Owner—B. Reininghaus, 2717 Chanling Way, Berkeley.
Architect—Not Given. \$3500

RESIDENCE

(1475) 1201-03 GILMAN ST., **BERKELEY**; one-story 4-room 2-family frame residence.
Owner—George Toselli, 1207 Gilman St., Berkeley.
Architect—Not Given.
Contractor—C. Marletti, 1201 Stan-nage Ave., Berkeley. \$2000

DWELLING

(1476) SE EIGHTH ST. 100 E 6th Ave., **OAKLAND**; one-story five-room dwelling.
Owner and Builder—August E. Person, 815 5th Ave., Oakland.
Architect—Not Given. \$4000

DWELLING

(1477) NO. 3400 GUIDO ROAD, **OAKLAND**. One-story 5-room dwelling.
Owner—C. D. Lyon, 6501 Buena Ventura Ave., Oakland.
Architect—Not Given. \$3250

ALTERATIONS

(1478) NO. 403 CENTRAL AVE., **ALAMEDA**. Alterations.
Owner—American Trust Co., Alameda.
Architect—Not Given.
Contractor—S. J. Grey, 403 Central Ave., Alameda. \$1800

DWELLING

(1479) NO. 2856 LINCOLN AVE., **ALAMEDA**. One-story 6-room frame and stucco dwelling.
Owner—Ethel L. Church.
Architect—Ray Keefer, 3206 Lakeshore Ave., Oakland.
Contractor—Geo. Windsor, 928 Kingston Ave., Oakland. \$6500

DWELLING

(1480) NO. 829-A LINCOLN AVE., **ALAMEDA**. One-story 3-room frame and stucco dwelling.
Owner—Meta Kroger, 826 Pacific Ave., Alameda.
Designer—E. F. Kroger, 826 Pacific Ave., Alameda.
Contractor—E. F. Kroger, 826 Pacific Ave., Alameda. \$2200

DWELLING

(1481) NO. 829 LINCOLN AVE., **ALAMEDA**. One-story 3-room frame and stucco dwelling.
Owner—Meta Kroger, 826 Pacific Ave., Alameda.
Designer—E. F. Kroger, 826 Pacific Ave., Alameda.
Contractor—E. F. Kroger, 826 Pacific Ave., Alameda. \$2200

APARTMENTS

(1482) NO. 1438 ST. CHARLES ST., **ALAMEDA**. Three-story 48-room frame and stucco apartments.
Owner—J. M. Kinley, 2120 Delaware St., Berkeley.
Architect—Not Given. \$45,000

FLATS

(1483) NO. 1416-1416½-1418 P ARK Ave., **ALAMEDA**. Two-story reinforced concrete building (flats, store and bakery).
Owner—Peter La Place, 1420 Park Ave., Alameda.
Architect—Earl L. MacDonald, 194 John St., Oakland.
Contractor—Conrad Roth, 2101 Central Ave., Alameda. \$10,000

DWELLING

(1484) NO. 826 BRIDGE ROAD, **SAN LEANDRO**. One and one-half-story 6-room dwelling.
Owner—R. S. Pelletier, 1532 Trestle Glen, San Leandro.
Architect—Not Given.
Contractor—H. F. Allen, 1700 104th Ave., Oakland. \$4000

DWELLING

(1485) NO. 2979 NORTHWOOD DR., **ALAMEDA**. Two-story 7-room frame and stucco dwelling.
Owner—A. M. Stoker, Oakland.
Architect—Walter H. Anderson, 1014 Doris Court, Alameda.
Contractor—Walter H. Anderson, 1014 Doris Court, Alameda. \$7500

DWELLING

(1486) 3539 JORDAN ROAD, **OAKLAND**; one-story 6-room dwelling.
Owner and Builder—John Fleming, 4261 Suter St., Oakland.
Architect—Not Given. \$4500

DWELLING

(1487) N EROOKDALE AVE. 500 E Coolidge Ave., **OAKLAND**; one-story 6-room dwelling.
Owner and Builder—C. W. Leekins, 1650 Hopkins St., Oakland.
Architect—Not Given. \$3900

DWELLING

(1488) W MOUNTAIN BLVD. 300 N Redwood Road, **OAKLAND**; one-story 5-room dwelling.
Owner and Builder—Fred T. Dooley, 3936 Vale Ave., Oakland.
Architect—Not Given. \$3000

STORES

(1489) NO. 1601-03-05 UNIVERSITY AVE., **BERKELEY**. One-story 2 room frame stores.
Owner—P. Tucciarone, 2351 San Pablo Ave., Oakland.
Architect—G. Taylor, 1732 Parker St., Berkeley. 5750

GARAGE

(1490) 176 ATHOL AVE., **OAKLAND** one-story tile garage.
Owner—Mae E. Morehouse, 176 Athol Ave., Oakland.
Architect—Not Given.
Contractor—C. W. Leekins, 176 Athol Ave., Oakland. \$1000

BUILDING CONTRACTS

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
144	Stoker	Anderson	8900
145	Associated	Dyer	3010

RESIDENCE

(144) LOT 371 BLK U, Fernside Trct., Alameda; all work on residence.
Owner—Arthur M. Stoker, 5601 Picardy Drive, Oakland.
Architect—Paul R. Anderson, 620 E 14th St., Oakland.
Contractor—Walter H. Anderson, 1014 Doris Court, Alameda.
Filed Dec. 5, '30. Dated Dec. 2, '30.
When rough frame is up.....1123
When rough plaster is on.....1123
When completed.....1125
Usual 35 days.....1125
Within 6 months.....400
TOTAL COST, \$8900
Forfeit, \$1 per day. Limit, 40 working days. Plans and Spec. filed.

IMPROVEMENTS

(145) NW corner E 14th St. and 24th Ave., Oakland; reconstruct and enlarge gas and oil service station.
Owner—Associated Oil Company.
Architect—Not Given.
Contractor—The Dyer Const. Co., Ray Bldg., Oakland.
Filed Dec. 1, '30. Dated Dec. 8, '30.
10 days after completion.....75%
Usual 35 days.....45%
TOTAL COST, \$3010
Bond, \$3000. Sureties, Globe Indemnity Co. Limit, 20 days. Plans and Spec. filed.

COMPLETION NOTICES

Alameda County

Recorded	Accepted
Dec 5, 1930—1727 FRANKLIN ST, Oakland. Fred T Wood (lessee) to J B Petersen.....	December 1, 1930
Dec 5, 1930—PTN 8.01 Ace tract of land, Berkeley. Ernest Coxhead to Harold Page.....	Dec 5, 1930
Dec 5, 1930—LOTS 23 and 24, Cotter Tract, Oakland. J P Cabral to Irwin H Reimers.....	Nov 28, 1930
Dec 4, 1930—LOT 14 BLK 8, Lakemont, Oakland. Mrs Ida Marcus to John Young.....	November 19, 1930
Dec 4, 1930—1868 SAN JUAN AVE, Berkeley. Richard Vosbrink to whom it may concern.....	Dec 3, 1930
Dec 3, 1930—W LINE PIERSON St ptn lot 10 blk L, Melrose Acres, Oakland. Aug and Sophie Rosenberg to whom it may concern.....	December 2, 1930
Dec 3, 1930—N SIDE DURANT AVE 150 ft E Ellsworth St, Berkeley. Berkeley Womens Club, Inc to K E Parker Co.....	November 28, 1930
Dec 2, 1930—946 WAWONA AVE, Oakland. C F Lodge to Self.....	December 2, 1930
Dec 8, 1930—2615 CARROLL Street, Oakland. Betty Bakar to J C Wallace.....	December 5, 1930
Dec 9, 1930—W CHESTNUT ST 92 ft S of Lincoln St, Berkeley. C F Bertin to whom it may concern.....	December 8, 1930
Dec 9, 1930—PTN LOT 15 BLK 18, map of Blks 17, 18, 19 Thousand Oaks, Berkeley. Angelo Arreco to Frank Hambleton.....	Dec 5, 1930
Dec 9, 1930—N 35th ST 100 ft E of Telegraph Ave, Oakland. Axel C Nelson to Self.....	December 5, 1930
Dec 9, 1930—E SHAFTER AVE 163	

ft S of 38th St, Oakland. N E
Rockwell to whom it may concern
December 8, 1930
Dec 8, 1930—736 SANTA FE AVE,
Albany. B Reinlinghaus to whom
it may concern December 4, 1930
Dec 8, 1930—PTN LOTS 13 and 14
Elk C, map showing Subdiv of SW
ptn of Plot No 53, Kellersbergers
map of Peralta Rancho, Oakland.
Hermine Mistrion to G A Pearson.
December 4, 1930
Dec 5, 1930—NO. 6544 ESTATES
Drive, Oakland. W A Netherly
to whom it may concern.
December 5, 1930
Dec 6, 1930—NO. 149 CRAGMONT,
Berkeley. Gladys M & J H Hen-
derson to O M French. Dec. 1, 1930
Dec 6, 1930—E B ST. 500 N Seventh
St, Oakland. Pacific Freight
Lines, Inc to Nick Wierk.
Nov. 28, 1930
Dec 6, 1930—NO. 500 ZORAH ST.,
Oakland. D Thomas to D J Sueell
Nov. 28, 1930

LIENS FILED

Alameda County

Recorded	Amount
Dec 9, 1930—INTER SW JOHN ST and NW Piedmont Ave, Oakland. Carl T Doell Co vs W H Weeks, Melrose Steel Co, Inc.	\$253.95
Dec 9, 1930—INTER SW JOHN ST and NW Piedmont Ave, Oakland. Kerr & Clifford vs Wm H and Maggie H Weeks, Ray Coney, Mel- rose Steel Co, Inc.	\$143.30
Dec 9, 1930—SW PACIFIC AND Webster Sts, Alameda. Makin- Kennedy Co vs Melrose Steel Co, N J Lindstrom and O Leydecker.	\$408.18
Dec 8, 1930—INTER SW LINE John St and NW Piedmont Ave, Oak- land. A Casquero, \$502.38; Powell Bros Inc, \$117.54 vs Wm H and Maggie H Weeks, Melrose Steel Co	
Dec 6, 1930—PTN LOTS 1 AND 2 Blk 12, Cragmont, Berkeley. T P Hogan Co vs Mary, James G and Jean E Walton and J Harry Smith	\$460.66
Dec 5, 1930—NO. 3006 FRUITVALE Ave., Oakland. Charles Edward Gray (as East Bay Spraying Co) vs Fruitvale Truth Center; Anna Goss and B Cerf.	\$204.10
Dec 4, 1930—LOT 19 BLK 6, Thous- and Oaks Heights, Berkeley. Boor- man Lumber Co vs Henry B and Gertrude I Gross	\$676.65
Dec 3, 1930—LOT 12 Blk 1174, Coggs- hall Tract, Emeryville. E M Gra- dy vs S G Fankline, G W Bruna, Charles Pugh	\$35
Dec 4, 1930—LOT 50 BLK 6, Thous- and Oaks Heights, Berkeley. Sun- set Ildwe Co vs Fuller and Helen Weston, E M Converse.	\$187.77

RELEASE OF LIENS

Alameda County

Recorded	Amount
Dec 9, 1930—INTER SE 51st St and NE Melrose St, Oakland. Garrett Mill & Lumber Co to Thos D Fisher, D F Driscoll.	\$111.73
Dec 9, 1930—NE 51st AVE and Mel- rose Ave, Oakland. Jas A Davis Co to Thos D Fisher, H A Dris- coll Co	\$552.15
Dec 9, 1930—SW 90 ft LOTS 1 and 2 Blk O, Fruitvale Blvd Tract, Oakland. Berkeley Bldg Mate- rials Co to Thomas D Fisher, D F Driscoll	\$240

BUILDING CONTRACTS

SAN MATEO COUNTY

DWELLING
NO. 224 PARTRIDGE ROAD, Menlo
Park. One-story dwelling.
Owner—Harry G. Carlson et al, Menlo
Park
Architect—Not Given.
Contractor—Ernest L. Aldrich.
Filed Dec 5, 1930. Dated Dec. 4, 1930.
Payments as agreed
TOTAL COST, \$2660
Bond, none. Limit, 75 working days.
Forfeit, plans and specifications filed.

ALTERATIONS
E ½ LOT 7 BLK 3, Questa La Honda
All work for alterations.
Owner—Guy B. Manford et al, Prem.
Architect—Not Given.
Contractor—Melvina E. Stone, 908
54th St., Oakland.
Filed Dec 5, '30. Dated Dec. 2, '30.
TOTAL COST, \$500
Bond, limit, forfeit, plans and speci-
fications, none.

RESIDENCE

LOTS 9 AND 10, El Cerito Heights.
All work for two-story frame and
stucco residence.
Owner—D. E. McLaughlin, Richmond
Road San Mateo.
Architect—John White, 163 Sutter
St., San Francisco.
Contractor—Oscar L. Cavanagh, 432
Occidental St., San Mateo.
Filed Dec 5, '30. Dated Dec. 2, '30.
Frame up \$6087.50
Plastered 6087.50
Completed 6087.50
Usual 35 days 6087.50
TOTAL COST, \$24,350.00
Bond, none. Limit 90 working days.
Forfeit, none. Plans and specifications
filed.

BUILDING PERMITS

SAN MATEO

BUNGALOW, \$4500; Lot 5 Blk 21, 920
S Humboldt; owner and contrac-
tor, Frank Hammond, 722 9th Ave.
San Mateo.
BUNGALOW, \$4000; Lot 20 Blk 57,
25th S Idaho; owner and builder,
Chas. H. Czapky.
PAINTING Community Building, \$3,-
890; Hospital, 39th Ave.; owner,
San Mateo County; contractor, G.
Ames, 408 Howard St., San Mateo.

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded	Accepted
Dec 5, 1930—LOT 2 BLK 15, Bay View Heights. Martin Peterson to whom it may concern. Dec 3, 1930	
Dec 5, 1930—N POPLAR AVE and E Poett Road, Hillsborough. Frances H M Breebe to A F Mat- toch et al	Nov. 26, 1930

Dec 5, 1930—LOTS 5, 20, 31 and 33
Blk 1, Jefferson Park. Castle Bldg
Co to Henry Horn. Dec. 1, 1930
Dec 5, 1930—LOTS 1 AND 2 BLK
2, Huntington Park. James W
Dunlap et al to whom it may
concern Dec. 4, 1930
Dec 5, 1930—Lot 38 Blk 16,
Central Park. John Quimby to
whom it may concern Dec. 5, 1930
Dec 5, 1930—PART LOT 19 BLK 5,
Oak Park. Fred G. Meeker to
whom it may concern
Dec 3, 1930—LOT 42 BLK 1, Bur-
lingame. C A Dibble to James
Horn. December 2, 1930
Dec 4, 1930—LOT 2 BLK 67, East-
ton. John Wallace Kyte, et al to
Themselves. Dec 3, 1930
Dec 4, 1930—LOT 1 BLK 5, Bur-
lingame Shore Land Co, Archi-
hald McLachlin to whom it may
concern. December 3, 1930
Dec 2, 1930—PART W P DAY 3.026
acre tract, partition of Selby Tiet.
Gertrude L. McCann to R W Fal-
mer. November 28, 1930

LIENS FILED

SAN MATEO COUNTY

Recorded	Amount
Dec 4, 1930—PART LOT 25, Eastern Add, Redwood City. Gray Thor- ning Lumber Co vs Julia Loretta McCann.	\$228.51
Dec 4, 1930—PART LOTS 38 and 40 and Part lot A blk 10, Wellsley Park. Werner Lumber Co, \$190.- 20; Progress Lumber Co, \$112.76, vs Henry M McQuiklin.	

RELEASE OF LIENS

SAN MATEO COUNTY

Recorded	Amount
Dec. 5, 1930—LOCATION NOT Given. J W Foresythe to George L Smith et al	

BUILDING PERMITS

PALO ALTO

COTTAGES, (2) one-story frame and
stucco, \$2500 each; No. 1161 Lin-
coln Ave., Palo Alto; owner, H. L.
Cobb, 1164 Hamilton Ave., Palo
Alto; contractor, C. E. Finnell,
Premises.
COTTAGES (2) one-story frame and
stucco, \$2500 each; No. 1161 Lin-
coln Ave., Palo Alto; owner, E. H.
Heim, 419 University Ave., Palo
Alto; contractor, C. E. Finnell,
Premises.
RESIDENCE, stucco, \$10,500; No. 2412
South Court, Palo Alto; owner,
Mrs. Louise R. Short; architect,
Chas. K. Sumner, 57 Post St., San
Francisco; contractor, E. J.
Schmalzing, 863 Melville Ave.,
Palo Alto.
DWELLING, stucco, No. 355 Chest-
nut St, Palo Alto, owner, Ezra
Bishop.

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BUILDING PERMITS**BURLINGAME**

RESIDENCE, \$6000; Lot 1 Blk 22, Easton Drive; owner and builder, C. D. Hall, 1236 Cabrillo, Burlingame.

COMPLETION NOTICES**MARIN COUNTY**

Recorded	Accepted
Nov. 29, 1930 — SAN RAFAEL Heights, San Anselmo. Charles F Black to Wm H Dwyer.....	
Nov. 29, 1930 — MILL VALLEY. Frederick A Penn and Wife to Melvin Klyce.....	Nov. 26, 1930
Nov. 29, 1930 — FAIRFAX. D H Sullivan to whom it may concern.....	Nov. 29, 1930
Nov. 29, 1930 — MILL VALLEY. Melvin H Klyce to whom it may concern.....	Nov. 29, 1930
Dec. 3, 1930 — KENTFIELD. Rena V Otis to Martin J O'Keefe.....	Nov. 29, 1930

LIENS FILED**MARIN COUNTY**

Recorded	Amount
Nov. 28, 1930 — WOODACRE. Disappearing Screen & Shade Co vs Tina M Burd.....	\$88.30
Nov. 28, 1930 — MILL VALLEY. Melvin Klyce vs Mrs. R Schmidt and R.....	\$534.18

RELEASE OF LIENS**MARIN COUNTY**

Recorded	Accepted
Nov. 28, 1930 — SAUSALITO. Geo B Meffley; R D Hood, and B Regalia to Alvine Kistenmacher.....	

COMPLETION NOTICES**CONTRA COSTA COUNTY**

Recorded	Accepted
Dec. 3, 1930 — PTN LOT 6 BLK B, Pittsburg. Nellie Frankel to Victor A Kauffenberg.....	Nov. 23, 1930
Dec. 3, 1930 — NEAR MARTINEZ. Southern Pacific Co to Hutchinson Co (surfacing present roadway of Mountain Copper Co.).....	Nov. 25, 1930
Dec. 2, 1930 — LOT 4 BLK 229, Central Addition to Pittsburg. August and Marguerite Ethel Selback to B T Owley.....	Dec. 1, 1930
Dec. 3, 1930 — LOT 6 and E ½ LOT 5 in 29, Grand View Terrace. Henry Martz to whom it may concern.....	Nov. 28, 1930
Dec. 3, 1930 — N 45 FT. OF S 95 FT. OF E 17.1 ft. of Lot 8 Blk 2, Pittsburg Home Acres. C W Richter to C M Brown.....	Dec. 2, 1930
Dec. 4, 1930 — W 19 ACRES OF LOT 15, Luigi De Martini Subdivision East of Martinez Highway. Louis De Martini to O K Smith Constr Co.....	Dec. 4, 1930

LIENS FILED**CONTRA COSTA COUNTY**

Recorded	Amount
Dec. 2, 1930 — LOT 10 in Grammar School Addition to Concord. J J Birmingham (as Birmingham Hardware Co) vs Andrew R Brazil.....	\$232.58
Dec. 3, 1930 — LOT 10 in Grammar	

School Addition, Concord. W McChesney and Max E E Richter (as McChesney & Richter) vs Andrew R Brazil.....

Dec. 5, 1930 — LOTS 23 AND 24 Ridge Park Tract. Jesse Treadway vs A Perron.....	\$102.60
Dec. 6, 1930 — LOT 10 BLK 5, Greene Subd of Portions of Wills Addition to Antioch. H C Tassell vs A Erickson.....	\$57
Dec. 4, 1930 — LOTS 4 AND 5 BLK 152, Add Surv., Martinez. J G Bartolomei vs G. Valline and Lawrence (as Valline & Lawrence) and Julio Bartolomei.....	\$36

RELEASE OF LIENS**CONTRA COSTA COUNTY**

Recorded	Accepted
Dec. 5, 1930 — LOTS 14 AND 15 BLK 111, Amended City of Richmond. Mayfield Paint & Glass Co to whom it may concern (reference: Vol 169, Official Records, Page 312).....	

COMPLETION NOTICES**SONOMA COUNTY**

Recorded	Accepted
Dec. 2, 1930 — WHITE-O RANCHO, about 6 miles SW of Healdsburg. Aileen D White to B L Garrison.....	Nov. 19, 1930

LIENS FILED**SONOMA COUNTY**

Recorded	Amount
Dec. 1, 1930 — LOT 401 and Parts Lots 402 and 403 Blk 12, City of Santa Rosa. L E Johnson, \$177.44; Pedersen-Smith Furniture Co, \$413.33 vs J F Kinslow, Mary C Barnett; Amelia B Burnett; A P Sweeney; C B Eames; L A Heckman and Junior Golf Paradise.....	

RELEASE OF LIENS**SONOMA COUNTY**

Recorded	Amount
Dec. 1, 1930 — FITCH MOUNTAIN near Healdsburg. Rose & Stevenson to Del Rio Woods Properties, Inc and A J Harwood.....	Partial
Dec. 1, 1930 — LOTS 2, 3, 4, 5 and 6 Blk C, McBeth, Turned & Welch Addition to Santa Rosa. Banks Wrecking Co to Frank Scaler and Agnes L McCarthy.....	\$276.52
Dec. 3, 1930 — PART OF DAVID Hirschfield Tract near Santa Rosa E W White Lumber Co to Lillian G, Francis W and Robert L Caldwell and L A Johnson. (Lien recorded in 1928).....	

BUILDING PERMITS**STOCKTON**

RESIDENCE, duplex and garage, \$7,000; 1621 Oxford Ave.; owners, Ernest and Hazel Williamson, 528 N Ophir St., Stockton.
ADDITION to service station, \$2250; 1440 E Miner Ave.; owner, Louis Marengo, premises.

BUILDING CONTRACTS**SAN JOAQUIN COUNTY**

BUILDING
LOT 9 BLK 3, Bjornson Addition, Town of Escalon. All work for building.
Owner—Board of Trustees of Masonic Lodge, Escalon.
Architect—Not Given.
Contractor—J. J. Cavanaugh, 219 N-Sutter St., Stockton.
Filed Dec. 2, 30. Dated Aug. 21, '30
TOTAL COST, \$7500

LIENS FILED**SAN JOAQUIN COUNTY**

Recorded	Accepted
Dec. 8, 1930 — PORTION SECTION 34 Township 1 South Range 6 East	

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of the New

DAILY PACIFIC BUILDER

The only daily construction newspaper affording complete coverage of the construction activities in Central and Northern California — featuring work contemplated, bids wanted, bids opened, contracts awarded, sub-bids wanted and sub-contracts let on all types of building construction; bridges, dams and harbor works, irrigation projects; machinery and equipment; water works and supplies; business opportunities; building permits; building contracts, mechanics' liens; acceptances, etc., etc.

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Stockton, Hayward Lumber & Investment Co vs H C McKlisen \$139.76

COMPLETION NOTICES

MONTREY COUNTY

Recorded Accepted
Dec. 1, 1930—LOT 11 BLK 12, Map 1 of Hot Spring Tract, Del Monte Heights. W B Graham to W M Roach Nov. 27, 1930
Dec. 1, 1930—BEING E 1/2 OF SW 1/4 of Sec. 4 Twp 48 S R 4 E, Monterey County. Russell P Hastings to Fred McCrary Nov. 30, 1930
Dec. 3, 1930—E 60 FT OF LOT 7 Blk 8, Homestead Addition to Salinas City. Louis H Gibbs to whom it may concern Dec. 3, 1930

BUILDING PERMITS

SACRAMENTO

RESIDENCES (3) 2 five-room and 1 6-room, \$4000 each; No. 915-923-933 Fourth Ave., Sacramento; owner and contractor, Wm. Murrell, 2015 23rd St., Sacramento.
RESIDENCES (2) four room, \$3350 each; No. 930 El Dorado and No. 2261 36th St., Sacramento; owner and Contractor, Bowen & McMahon, 525 J St., Sacramento.
RESIDENCE, 8-room, \$5000; 4422 D St.; owner, W. T. Smith, 2505 I St.; contractor, Gus Thiery, care Y. M. C. A., Sacramento.
RESIDENCE, 6-room, \$5750; 905 44th St.; owner and builder, Properties Finance Corp., 819 J Street, Sacramento.
REPAIRS, general, \$5000; 524 M St.; owner, Chinese St., 524 M St.; contractor, contractor, Frank H. Yick Co.
REROOF, \$2400; 1801 4th St.; owner, N. Sakamoto, Elk Grove; contractor, K. Yabuki.
RESIDENCE, 7-room, \$5000; No. 2681 Land Park Drive, Sacramento; owner, H. M. Dunkel, 420 Santa Ynez Way, Sacramento.

COMPLETION NOTICES

SACRAMENTO COUNTY

Recorded Accepted
Dec. 4, 1930—LOT 2703, Elmhurst. John and Gertrude Simmons to whom it may concern Dec. 4, 1930
Dec. 4, 1930—PTN LOT 12, Elverta. Florence E Schneidel to whom it may concern Nov. 28, 1930
Dec. 2, 1930—3 ACRES OF LOT 1, White Tract situated in Sacramento 15-8-5. Fred Dixon to whom it may concern Dec. 2, 1930
Dec. 2, 1930—LOT 44 W & K Tract 34, Sacramento. C H Thompson to whom it may concern Dec. 2, 1930
Dec. 5, 1930—LOT 1715 W & K. Tet No. 24, known as 1372 42nd St., Sacramento. I Greenblatt to whom it may concern Dec. 4, 1930
Dec. 5, 1930—HAGGIN PARK AND Auburn Blvd., Sacramento. Associated Oil Co to whom it may concern Nov. 28, 1930

LIENS FILED

SACRAMENTO COUNTY

Recorded Amount
Dec. 5, 1930—W 27 FEET OF E 54 ft. Lot 6, P. Q. 3rd and 4th Sts. known at 321 Q St., Sacramento. Ruth Dallman (as Dallman Supply Co) vs Manuel Gomes and Mrs. Maria Gomes \$127.50
Dec. 5, 1930—LOT 239, Orangevale. Col. Vale & Curtis vs Mrs. A P

Williams \$400
Dec. 5, 1930—LOT 239, Orangevale. Col. Vale & Curtis vs Mrs. A P Williams \$400

BUILDING PERMITS

FRESNO

SERVICE station & auto holst, \$5000; NE Van Ness Ave. and Ventura St., Fresno; owner, General Petroleum Co., Premises.
ALTERATIONS and additions, \$6000; No. 1304 Broadway, Fresno; owner, L. O. O. K., Premises; contractor, E. J. Heffner, 2525 N-Broadway, Fresno.
ALTERATIONS and additions, \$1000; No. 620 Callish St., Fresno; owner, C. H. Farley, Premises; contractor, G. G. Baley.
DWELLING, \$3500; 435 Michigan Avenue; owner, Mary Michel, premises.

COMPLETION NOTICES

FRESNO COUNTY

Recorded Accepted
Dec. 6, 1930—LOTS A, F G F G Sub No. 1 and in F-G F G Sub No. 2, Board of Supervisors of Fresno County to E G Edgley Dec. 6, 1930
Dec. 5, 1930—NW 1/4 OF NW 1/4 of Section 5 14-19, Fresno. Aram Arax to whom it may concern Dec. 4, 1930
Dec. 5, 1930—LOT 26 Roeding Villa Col. Henry R Metzler to Adam Haas Dec. 4, 1930
Dec. 2, 1930—ACROSS SAN JOAQUIN RIVER (Fresno and Madera Counties). Dept of Public Works State of Calif. to Wm I Wilcox (removing bridge) Nov. 25, 1930

OFFICIAL PROPOSALS

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received at the office of the State Highway Engineer, Public Works Building, Sacramento, California, until 2 o'clock P. M. on December 30, 1930, at which time they will be publicly opened and read, for construction in accordance with the specifications therefor, to which special reference is made, of portions of State Highway, as follows: Kern County, between Harts Station and three miles east (VI-Ker-33 C), about three (3.0) miles in length, to be graded and portions surfaced with bituminous macadam.

Proposal forms will be issued only to those Contractors who have furnished a verified statement of experience and financial condition in accordance with the provisions of Chapter 644, Statutes of 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Bids will not be accepted from a Contractor to whom a proposal form has not been issued by the Department of Public Works.

Plans may be seen, and forms of proposal bonds, contract and specifications may be obtained at the said office, and they may be seen at the offices of the District Engineers at Los Angeles and San Francisco, and at the office of the District Engineer of the district in which the work is situated. The District Engineers' offices are located at Eureka, Redding,

Sacramento, San Francisco, San Luis Obispo, Fresno, Los Angeles, San Bernardino and Bishop.

A representative from the district office will be available to accompany prospective bidders for an inspection of the work herein contemplated, and Contractors are urged to investigate the location, character and quantity of work to be done, with a representative of the Division of Highways. It is requested that arrangements for joint field inspection be made as far in advance as possible. Detailed information concerning the proposed work may be obtained from the district office.

No bid will be received unless it is made on a blank form furnished by the State Highway Engineer. The special attention of prospective bidders is called to the "Proposal Requirements and Conditions" annexed to the blank form of proposal, for full directions as to bidding, etc.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed for the best interest of the State.

DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

C. H. PURCELL,
State Highway Engineer
Dated December 3, 1930.

NOTICE TO CONTRACTORS

SEALED BIDS will be received by George McQuigall, State Architect, Public Works Building, 11th and F Streets, Sacramento, California, up to 2 o'clock P. M., Tuesday, January 6, 1931, said bids thereafter on said day to be publicly opened and read for the erection and completion of the Kitchen and Commissary Building and the Boys' and Girls' Dormitory Building, California School for the Deaf, Berkeley, California, in accordance with plans and specifications therefor.

The Kitchen and Commissary Building to be a one-story reinforced concrete structure with tile partitions, steel and wood roof construction, and tile roof. The total floor area is approximately 14,000 square feet.

The Boys' and Girls' Dormitory Building is to be a two-story reinforced concrete structure with tile partitions, wood roof construction and tile roof. The total floor area is approximately 42,700 square feet.

Separate bids will be entertained for the following segregated parts of the work and combinations thereof as listed:

1. General Work and Alternates
2. Electrical Work and Alternates.
3. Plumbing, Heating and Ventilation Work and Alternates.
4. Complete Mechanical including Plumbing, Heating, Ventilating, Electrical Work and Alternates

The "General Work" bid will embrace all branches of work other than segregated above. Contractors shall state clearly in their application the particular segregation of work that they desire bids for.

Alternative bids required will be for the addition to the contract of the Bakery Unit marked Alternate A on plans and the addition of the Arcade and Patio marked Alternate B both affecting the Kitchen and Commissary Building and involving both general and mechanical work. A third alternate required involving the omission of elevator equipment in both buildings is designated as Alternate C in the specifications. See Section eleven (11) of the specifications for work requiring Alternative bids.

Plans and specifications are on file for examination in the office of the Division of Architecture, Public Works Building, Sacramento, and also at Room 1025 Associated Realty Building, Los Angeles, and at the principal California Cities Builders' Exchange Offices.

Plans, specifications, and proposal forms may be secured by licensed Contractors who have qualified or will qualify by furnishing a verified statement of experience and financial condition as required by the provisions of Chapter 644, Statutes 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Questionnaire forms may be secured from the Division of Architecture.

Bids will not be accepted from a Contractor to whom a proposal form has not been issued and all bids must be on proposal forms supplied by the State.

Requests for plans shall be accompanied by a deposit of twenty-five (\$25.00) dollars. Check shall be made payable to the Department of Public Works, Division of Architecture. Deposit will be returned upon receipt of the set in good condition, at Sacramento Office of the Division within 30 days after opening bids, otherwise it will be forfeited to the State.

All bids must be filed at the office of the State Architect on or before the time heretofore stated and in accordance with the "Rules for Bidding" accompanying the proposal form.

No bid will be considered unless cash, a bidder's bond made payable to the State of California, or a certified check made payable to the "State Engineer, Department of Public Works," in the sum of at least ten per centum (10%) of the amount of the bid is enclosed with the bid.

The Division of Architecture, Department of Public Works, reserves the right to reject any or all bids and to waive any informality in any bid received.

DEPARTMENT OF PUBLIC WORKS,
DIVISION OF ARCHITECTURE,
GEO. B. McDUGALL,
State Architect.

B. B. MEEK,
Director of Public Works.

STREETS AND HIGHWAYS

OAKLAND, Cal.—Until Dec. 18, 12 noon, bids will be received by Frank C. Merritt, city clerk, to grade and pave a 30-ft. strip along the center line of Fourteenth Ave. bet. East 12th and East 14th Sts. Bond of \$600 required of the successful bidder. Spec. on file in office of clerk. Walter N. Frickstad, city engineer.

PALO ALTO, Santa Clara Co., Cal.—Until January 12, 7:30 P. M., bids will be received by E. L. Beach, city clerk, (938) to improve High St. bet. Lytton Ave. and Addison St., involving vit. san. sewers, cem. conc. gutters, driveways, curbs and walks, catchbasins, conc. storm sewer pipe, electroler system, resurface roadway with asphalt concrete. 1911 Act. Certified check 10% payable to city required with bid. Plans obtainable from J. F. Byxbee, city engineer.

OAKLAND, Cal.—Until December 13, 12 noon, bids will be received by F. C. Merritt, city clerk, to grade and pave a 30-ft. strip in center line of 14th Ave. bet. E 12th and E 14th Sts., involving 8,392 sq. ft. pavement, including grading. Bond of \$600 re-

quired of successful bidder. Specifications on file in office of clerk.

SANTA BARBARA, Cal.—Until 1:30 P. M., Dec. 18, bids will be received by the city council to improve Mountain Avenue bet. Pedregosa St. and Mountain View Terrace, involving vitrified sewer, manhole, and appurtenances. 1911 Act. Geo. D. Gelb, city clerk. E. B. Brown, city engineer.

KERN COUNTY, Cal.—As previously reported, bids will be received Dec. 30, 2 P. M., by State Highway Commission, to grade and surface portions of 3.0 miles between Harts Station and 3 miles east. Project involves: 134 sta. grading existing shoulders; 23,500 cu. yds. imp. borrow; 755 sq. yds. subgrade; 1,000 tons broken stone (waterbound mac. base); 700 tons broken stone (bitum. mac. surface); 35 tons emulsified asphalt; 5.75 miles move and reset property fences; 213 lin. ft. laminated timber guard rail; 16 monuments; 156 sta. finishing roadway.

SAN FRANCISCO.—California Construction Co., Standard Oil Bldg., at \$45,081 awarded contract by Board of Public Works to improve portions of Lawton St. from 12th and 17th Aves., portions of 16th Ave., 11th Ave., etc., in Golden Gate Heights District. Project involves:

163,000 sq. ft. asphalt pavement, consisting of 6-inch waterbound macadam base and 2-inch asphalt conc. wearing surface.
150,000 sq. ft. emulsified asphalt pavement, consisting of a 6-inch waterbound macadam base and 2-in. emulsified wearing surface;
19,000 lin. ft. armored conc. curb;
38 brick catchbasins;
1 catchbasin;
900 lin. ft. 10-in. V.C.P. culverts;
5,000 lin. ft. 6-in. V.C.P. side sewers.

PACIFIC GROVE, Monterey Co., Cal.—City council declares intention

(3308) to improve Grand Ave., bet. Ocean View Ave. and Park Place, involving cem. conc. curbs; oil macadam surface pavement (composed of graded rock not less than 13 lbs. to sq. ft.) and Duremulse emulsified asphalt; cem. conc. driveways; 4-in. vit. clay lateral sewers. 1911 Act. Bond Act 1915. Hearing Jan. 2. Elgin C. Hurlbert, city clerk.

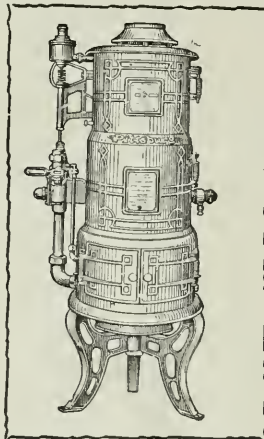
SAN LUIS OBISPO, San Luis Obispo Co., Calif.—City Engineer Leon Moore is preparing plans to improve ten blocks of Pacific St. with concrete pavement, curbs and gutters; estimated cost, \$110,000.

MISCELLANEOUS SUPPLIES AND MATERIALS

YREKA, Siskiyou Co., Cal.—County supervisors order bids called to furnish County Horticultural Commissioner with Diesel engine oil for the ensuing year. Specifications obtainable from county clerk.

SAN FRANCISCO.—Until December 22, 3:00 P. M., under Proposal No. 662, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish and deliver apparatus required by the Department of Electricity for the equipment of a radio transmitting station for the Police and Fire Departments. Specifications obtainable from above.

A bill to authorize an addition to the U. S. Veterans' Hospital at San Fernando at a cost of \$1,000,000 has been introduced by Representative Evans of California. The measure would provide 250 beds. Representative Crail of California sponsors a bill for 500 new beds and additional facilities at the Pacific Branch of the national soldiers' home in Los Angeles county; to cost \$2,000,000.



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SAN FRANCISCO, CALIFORNIA, DECEMBER 20, 1930

Published Every Saturday
Thirtieth Year, No. 51

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Thirtieth Year, No. 51

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Building and Engineering News will be sent to subscribers until ordered stopped and all orders to discontinue must be sent in writing to this office.

ORAL CONTRACT IS BINDING, COURT RULES

It is important to know that a provision in a building contract to the effect that all extra work shall be ordered by the architect or by the owner in writing might be waived, says Leo T. Parker, attorney, in General Building Contractor. Moreover, Parker says, the contract itself may be altered by an oral agreement.

For instance, in Van Nice vs. Christian, 213 N. W. 604, a building contract contained the following clause:

"No extra work or change shall be made unless in pursuance of a written order from the owner, signed or countersigned by the architect, or written order from the architect stating that the owner has authorized the extra work or change, and no claim for an addition to the contract sum shall be valid unless so ordered . . ."

The owner orally directed the contractor to perform extra work. Litigation developed when the owner refused to pay for this extra work, but the Court held the subcontractor entitled to a recovery, notwithstanding the above provision in the contract, saying:

"The contract itself could be altered either by a contract in writing or by an executed oral agreement . . . or the provision invoked by the defendant here might be waived. . . . The work and material which the plaintiff furnished here was not something that he was required to do or furnish under his contract. It was something in addition thereto—something which he was not required to do or furnish under the contract."

GEORGE FORDERER ACCIDENTALLY KILLED

George S. Forderer, president and general manager of the Forderer Cornice Works, secretary and former president of the California State Automobile Association, was instantly killed last Sunday while duck hunting near Suisun in Solano County.

Mr. Forderer's gun exploded as he was climbing out of the blind, a charge of shot from his 12-gauge gun passing through his body just below the ribs.

Mr. Forderer was a director of the American Trust Company and a member of the Olympic Club. He is survived by his widow and two brothers, Joseph F. and Arthur E. Forderer, who was associated with him in the cornice business.

Industrial, porcelain enamel, and aluminum reflectors and fittings for industrial illumination are covered in a new catalog issued by the Ivanhoe Division of The Miller Company, Meriden, Conn.

DRAFTSMAN DRAWS FIFTY BUCKS FINE

Rudolph Sutter, draftsman for a building concern operating in Santa Rosa, pleaded guilty in the Justice Court in Santa Rosa last Monday, to a charge of practicing architecture without a state license. He was fined \$50 by Justice of the Peace Leopold Justi. Sutter was arrested recently on complaint of an inspector for the State Board of Architectural Examiners.

LOW BIDDER MUST GET THE CONTRACT

The school law provides that a board of education must award a school building contract to the lowest responsible bidder, whether he is a local contractor or not. This matter is controlled by state laws when contracts exceeding \$1000 are involved.

This was the ruling given the Sacramento board of education by Alex J. Ashen, assistant district attorney. The board asked for an opinion on whether it might favor local contractors in the award of contracts, in the event the proposed school bond issue for new building additions should be approved by The People.

ARCHITECT WARREN LOSES INSCRIPTION SUIT AT LOUVAIN

An Associated Press dispatch from Brussels, dated December 15, says the Court of Appeals has decided against Whitney Warren, American architect, in the now famous Louvain Library suit, by pronouncing in favor of Louvain University which stood out for removal of Warren's inscription on the library facade.

The inscription, reading, "Destroyed by Teutonic Fury. Restored by American Generosity," was objected to by the university as tended to perpetuate the hatreds of the World War. Warren refused to withdraw it and the lower courts sustained him. Now he must pay the costs of both actions.

The inscription was placed on the building, then removed and a new balustrade erected where it had been. This last decision apparently disposes of the issue.

Type AA Reliance induction motors with ball bearings for two- and three-phase a.c. circuits are the subject of Bulletin No. 109 recently issued by the Reliance Electric & Engineering Co., Ivanhoe Road, Cleveland, Ohio.

UNFILLED STEEL ORDERS INCREASE

The United States Steel Corporation reports the largest November increase in unfilled tonnage since 1925 and an expansion in bookings for the second consecutive month.

The increase of 157,873 tons in bookings last month was fully as large as the more optimistic forecasts and exceeded by more than 100,000 tons the increase of 57,425 tons reported for October.

In trade circles the ability of the corporation to record an expansion in unfilled tonnage for two consecutive months is looked upon as one of the most favorable developments of the last six months.

It was pointed out that there was a marked improvement in demand toward the end of November, when several consumers whose supplies had been reduced to an abnormally low point, placed orders.

The total unfilled tonnage November 30 was 3,639,636, compared with a backlog of 3,481,763 tons on October 31, and 4,125,345 on November 30, 1929.

SOUTHERN CALIFORNIA CHAPTER A.I.A. ELECTS

Election of officers to serve during the coming year and the election of delegates to the national convention to be held in San Antonio next year featured the regular monthly meeting of Southern California Chapter, American Institute of Architects, held at the California Club, Los Angeles, December 9.

The officers elected were: H. C. Chambers, president; Carleton M. Winslow, vice-president; H. Roy Kelley, secretary; Palmer Sabin, treasurer; J. E. Allison, director for the three-year term.

Delegates to the national convention are: William Richards, J. E. Allison, David J. Witmer, Ralph C. Flewelling, Fitch H. Haskell, Gordon B. Kaufmann and C. H. Cheney. Alternate delegates: Palmer Sabin, A. M. Edelman, Pierpont Davis, W. L. Risley, Robert H. Orr, Eugene Weston and Carleton M. Winslow.

The California State Branch of the Associated General Contractors of America will support Jas. F. Collins, state director of professional and vocational standards, in his proposed amendments to the contractor's license law with a view to securing a more effective operation of the law. Mr. Collins, in addition to other proposed changes in the law, favors legislation permitting the director of the department to appoint a deputy to perform the duties of Registrar of Contractors and to give his entire attention to the division embracing the architectural and engineering professions and contractors.

PRESIDENT'S CONFERENCE ON HOUSING OFFERS CHALLENGING OPPORTUNITY SAYS ARCHITECT

After a decade of tremendous activity, the housing business is again in the dumps. Now the leaders of the industry have time to consider the results of their work. So the President has called a Conference on Home Building and Home Ownership to make a national inquiry into the housing experience of the past years, "with a view to a summation of this experience, the mobilization of existing movements and the possible development from it of a new state of thought and action."

The President's Conference has a great opportunity for leadership. If it should develop simpler and easier systems of financing individual houses, it would make an important contribution. But it would not strike at the essential problem. It is not more houses that we need. It is houses and communities worth living in. The basic problem is to reorganize the industry for the economical production and development of planned and orderly-built communities.

When building started up again ten years ago, there was great hope for a better day for housing. All the civilized world had come to a realization of the important relation between home and community life and industrial efficiency and social progress. We had behind us the war-time experience of building planned communities. There was the need of a complete revolution in house and community planning to meet the requirements of a new age. All other industries were undergoing reorganization based on mechanized mass production. There was an insufficient number of houses in almost every part of the country. There was immense wealth, broadly distributed; so there were vast sums of money to be spent on houses.

Ten years have passed. When the President's Conference looks back over this period of stupendous production of houses, how will it sum up the experience?

Whereas there was a housing famine ten years ago, there is now a surplus in most parts of the country. So it is not a problem of quantity that they have to meet; it is one of quality, distribution and organization.

Home ownership has greatly increased. This is due to the broad distribution of wealth during this period, augmented by the propaganda of the "Own Your Own Home" movement. The Conference will probably consider the defects as well as the advantages of home ownership. Here, again, the principal factor to be kept in mind is not quantity but quality. Certainly the ownership of poorly built houses inadequately served by public utilities and roads and badly placed in relation to neighboring houses or places of work and recreation does not lead to better citizenship nor to the creation of contented workers. Quite the contrary.

Construction

The industry is organized as a real business. In spite of the vast number of houses erected in every part of the country, there has been large-scale production in only exceptional localities. Even in these cases, few have taken advantage of the architectural opportunities of grouping for appearance or preservation of light, outlook or open spaces. Similar lines have been placed in endless lines like soldiers on parade. Miles

The Conference on Home Building and Home Ownership, appointed by President Hoover, has a challenging opportunity to mobilize public thought and stimulate action which will lead to much-needed improvements (a) in methods of construction, (b) in group and site planning and (c) in the relationship of the lending institutions to the house-building industry, says Clarence S. Stein, a member of the American Institute of Architects, in an article published in the November issue of "The American City." The article is reproduced herewith.—Editor.

of identical ugly boxes spaced close to each other—dangerously close. Free-standing individual houses with no individuality and no privacy. As a result of the small-scale methods of production, housing has been practically unaffected by the great decade of industrial standardization and mechanization.

The standard of construction as a whole has been lower than before the war. There has been actual progress in the design and construction of all the mechanical equipment of the kitchen, bathroom and furnace room—that portion of the house made and assembled in the factory; but the shell itself, that which is put together by craftsmen on the job, shows practically no technical progress. Except in a few instances, the important problems of fire resistance and insulation against heat and cold are met no better than before. Wood is still the principal material used for the exterior of houses, in spite of fire hazards and its tendency to deteriorate rapidly. An astonishingly large portion of the houses have been jerry-built by ignorant or irresponsible builders. It is questionable whether they will be worth very much by the time the second mortgages have been paid off and the houses belong 100 per cent to the purchasers.

Group and Site Planning

Houses have been placed without any regard to the best use of the site or the preservation of open spaces or the requirements of safety. They have been located without any relation to neighboring houses or the necessity for outlook, light and ventilation. Traditional systems of land subdivision without relation to actual use, as well as the typical municipal regulations, lead to the building of monotonous rows and make it practically impossible to group houses so as to secure beauty or to obtain the maximum advantages of vista and privacy.

Buggy Thinking in Motor Age

Streets and lots have been laid out in a manner appropriate to the days of the buggy. Obsolete methods have been followed, with very few exceptions, in spite of the apparent need of new types of town planning for residential sections to meet the requirements of use of the automobile and the growing demand for peaceful escape from the dangers, noises and odors of traffic highways.

Small and unrelated lots have been sold in much larger quantity than could be used for decades to come. This has led to the breaking-up of forms long before it was necessary. It has fixed the mold of the future

development of our cities in regard to street layouts, which in most cases will be obsolete before they are used. It has made the future economical large-scale development of these sections difficult if not impossible. This pattern can be changed only at vast expense and much labor, by repurchase of individual lots. Most of these developments have been subdivided according to methods that neither lend themselves to economical equipment with public utilities nor are in accordance with more advanced practices in relation to community living in the age of the automobile.

Most subdivisions in which lots and even houses have been sold have been incompletely equipped with roads and utilities. The lots have to a great extent been sold to those who have no understanding of the complete costs they will have to meet in the future, not only for the upkeep of the house but for assessments for roads, utilities and other improvements, as well as taxes.

Subdivisions have been located in accordance with the whim of the speculator, rather than in relation to sound economic development of the community or the region of which they form a part. As a result, there is a chaotic relation between the location of industry and the homes of workers. Municipalities have been put to vast expense, or more often have borrowed on the future, for transportation systems to connect the two. While millions are being spent in laying out and building endless miles of new streets mostly of a temporary nature, with inadequate public utilities, old residential sections which have good roads and adequate public utilities are being depopulated. It is true that the old houses are obsolete. But many of the new sections are so badly planned, built and equipped with utilities that they will probably soon degenerate into worse slums.

Financing

The lending institutions hold the key position in the house-building industry. It is their loans that make housing possible. It is their final say which decides what houses shall be built. In short, they are the real leaders of this chaotic industry. Only a few of the larger lending organizations have an efficient architectural or engineering staff to examine plans or construction of houses on which they lend. Loans have been made without reference to:

1. The quality of house construction.
2. The type of construction organization. In or near large communities it would unquestionably be more effective socially, as well as financially safer, to lend on a large-scale operation of a reliable building organization having an efficient technical staff, instead of on small units or individual houses.
3. The ability of purchasers to meet all the costs of future assessments, taxes and upkeep.
4. The future character of the neighborhood as affecting the value of the house. After all, the obsolescence that affects values in housing is more often that of the neighborhood than of the individual house.
5. The needs of municipal growth. New developments have often been placed inconveniently at a distance from industries, schools, stores, existing roads, sewers or fire protection.

They require unnecessarily large and wasteful municipal investments, as well as waste of time, capital and energy of those who buy or rent in the new developments.

Regulations

Large portions of the country have inadequate regulation of construction or subdivisions. On the other hand, where legal restrictions have been made so stringent that those of moderate means cannot afford new homes, there has been a tendency to escape to the unregulated areas around the rims of these municipalities. Here there are no regulations, the taxes are low. These sections will ultimately have to be taken over by the city. They are being built up without plan. Because of their lack of sanitary facilities, they are a constant danger to the health of the community. They will quickly degenerate into slums that will have to be wiped out at vast expense.

There is an equally dangerous tendency to set legal standards which, although they may seem desirable to cure evils inherent in our usual method of premature land subdivision, are likely to prevent the development of large-scale planning and coordinated building.

Mobilization of Existing Movements

Although the permanent value of most of our experience of the last ten years is meager, there have been movements which have prepared the way of a new state of thought and action. Such are the large-scale operations which have been carried out by a limited number of progressive builders and by organizations actuated by desire for public service rather than immediate profit. A number of these operations have consisted of groups of apartment houses, financed and executed by insurance companies or foundations such as the Rockefeller, Rosenwald, and Marshall Field. In addition to showing the economic advantages of large-scale building, they have preserved large concentrated open spaces and have formed communities. The City Housing Corporation has gone even further at Sunnyside in building a well-knit community of both individual houses and apartments for twelve hundred families. These developments have been part of existing cities. At Mariemont and Radburn a further step has been taken in planning complete new communities. The importance of Radburn lies not only in the fact that a limited dividend organization is successfully producing well-constructed houses that compete with the Jerry-built products; that it is carrying out large-scale operations directed by trained technicians; that it is building orderly planned communities in which every house is placed not only so as to secure for itself the best possible advantage of its location, but where it forms a related part of group and community. Above all, it is important because at Radburn town planning has been based on the needs of today, this age of the motor and of increasing leisure time. A few progressive large-scale operators in other parts of the country are paying Radburn the compliment of imitation.

During the past decade there have been signs of a change in public opinion as to the functions of government in regard to housing. Some people realize that restriction is ineffectual. At least New York State has assumed active responsibility for both state and municipality by offering financial assistance in the form of tax exemption to limited-dividend companies which construct good houses at low rentals.

New State of Thought and Action

This summation of the experience of the past ten years would lead to the conclusion that the primary defect of most housing activity has been

the building of desultory unrelated individual houses instead of homogeneous communities.

On the basis of this misdirected activity, a program for the future might be outlined.

1. The development of our cities must be carefully planned in advance so as to care for the future growth of population in an orderly, economical way. Only so can we minimize the cost of roads, public utilities and transportation.
2. We must in future build communities, not unrelated desultory placed houses.
3. These communities must consist of carefully related units, each placed so as to secure the maximum of vista, sunlight and privacy, and be organized so that they will at the same time form part of a harmonious and beautiful group.
4. Each development should be planned and built as a single operation with complete installation of paving, sewers and other utilities.

The suggestion of large-scale development does not solve the problem of all the small cities and villages. It is, however, applicable to the housing production of such a large portion of the country that it would seem to me that the emphasis of the President's Housing Conference should be placed on it rather than on individual home ownership or financing.

How bring about a new state of thought and action? This cannot be done merely by educating the general public. It is not they who control the situation. It is the lending institutions, the municipal governments and the land subdividers and builders. The two latter groups can, on the basis of past experience in this country and abroad, be shown the advantage of more economical methods of land subdivision and house grouping than those now commonly used. The development of more organizations for large-scale planning and construction should lead not only to more economical production, but should give opportunities for much-needed research into the better use of materials and new structural methods.

The municipalities can prevent short-lived and dangerous construction. They can prevent the subdivision and sale of land which lacks adequate roads and public utilities. But, above all, they can enforce an orderly, economical development of the city and surrounding region, so that only as much land as is really needed and can be immediately supplied with adequate community facilities is opened up for housing purposes.

The lending institutions can do more than any other group to prevent a continuation of past housing follies. It is merely a question of where they place their loans. They should finance only those houses which are economically planned in relation not only to the internal functions of the house but also to its surroundings. They should lend only on soundly built houses, and preferably on those which form part of a large scale operation, or those located where the immediate completion of the building of the neighborhood is reasonably assured. And they should insist that the houses be part of a well-planned community, equipped with necessary roads, utilities and recreational and community facilities, because it is the obsolescence of a neighborhood much more than the obsolescence of an individual house that depreciates not only social but financial values.

NATIONAL TIMBER CONSERVATION BOARD IS NAMED BY HOOVER

President Hoover has announced the membership of the new National Timber Conservation Board, which is a presidential commission, as follows: Secretary of Commerce Lamont, Secretary of Agriculture Hycle, Secretary of Interior William, John W. Hodgett, Grand Rapids, Mich.; John H. Kirby, Houston, Texas; Paul G. Redington, president American Society of Foresters and also head of the Biological Survey; Charles Lathrop Pack, president of the American Tree Association; George D. Pratt, New York, president of the American Forestry Association; John C. Merriam, Washington, D. C., president of the Carnegie Institute; L. J. Taber, Columbus, O., Master of the National Grange; Carl R. Gray, Omaha, Neb., president of the Union Pacific Railway Company; D. C. Everest, Rothschild, Wis., past-president and member of the Executive Committee of the American Paper & Pulp Association; W. M. Ritter, Columbus, O., and Washington, D. C.

The creation of the Timber Board is the outcome of an effort to improve the economic position of the natural resource industries with respect to balance of supply and demand, which was remarked by the report of the President's Committee on Recent Economic Changes. The forest industries and foresters have long been agreed that chronic over-production is one of the chief obstacles to commercial reforestation and the practice of forestry, as it is practically impossible for industries which are not prosperous to undertake the expensive and tedious process of reforestation. After much informal discussion of the problem of over-production, the creation of a Timber Board was proposed to President Hoover by leaders in the forest conservation movement and representatives of agriculture and owners of timber and the lumber and paper and pulp industries.

The proposed task of the National Timber Conservation Board is to compile the important facts of production conditions and trends in the forest industries, analyze and interpret them and develop therefrom recommended policies and programs of public and private action, which may secure and maintain an economic balance between production and consumption of forest products, and lead to the perpetuation of the forests and the industries based on the use of timber. It is not expected that the Board will attempt to frame any board national forestry policies, but rather that it will direct its activities to the national economic problems involving the supply and use of forest products and the maintenance of those important sources of employment and national wealth. It is stated that the forest industries group ranks next to agriculture in the number of people it sustains. Its investments are in the neighborhood of \$10,000,000, and the value of its annual product is ordinarily close to \$4,000,000. The products of the forest industries are in daily use by the whole population and their raw material is drawn from one-fourth the land area of the United States, of which the State and Federal Governments own about 100,000,000 acres, farmers about 160,000,000 acres and commercial interests the rest.

THE OBSERVER

What He Hears and Sees on His Rounds

Sales of electrical appliances by Southern California Edison Company have maintained a lead over 1929 sales throughout the year, reaching \$1,807,634 November 27, compared with \$1,654,504 at the same date last year.

Burlingame city council is considering the adoption of an ordinance levying a \$25 a year license fee on building contractors. The ordinance was introduced by City Councilman Fredrick Peterson.

An ordinance has been submitted to the Humboldt County supervisors providing that all contractors on county work must employ Humboldt county laborers unless they find it impossible to get them, in which case they may employ outside labor.

Due to protests the Oakland city council has postponed an action on the proposed ordinance regulating the filling of gasoline storage tanks. The matter will come up for further consideration on January 8. The ordinance demands that all gasoline service station tanks be filled within the property lines and not from the curbs.

The Sacramento City council has received a communication from the National Conference on Street and Highway Safety asking that consideration be given to a model traffic ordinance drafted for general adoption throughout the United States. The conference seeks to establish uniform traffic regulations in all American cities in order to avoid confusion.

Construction of a \$70,000 bridge, projected by San Joaquin county, is held up by a ruling of Attorney General U. S. Webb who has informed the San Joaquin County district attorney that there was no constitutional authority for bridging a navigable stream according to the plans of the Supervisors. The 1929 Toll Bridge Act, he said, placed the authority for such bridges in the hands of the Board of Public Works.

Composite lumber prices for the Pacific Northwest showed fractional shading during November, with price reductions greater than October figures, but less than any other monthly range since March, according to preliminary estimates of the West Coast Lumbermen's Association. Preliminary production estimates from leading mills indicate the entire industry will be operating on close to a 30 per cent basis by December 15, and will average in the neighborhood of 25 per cent of capacity in the period December 15 to February 1. This compares with current operations of around 40 per cent.

Employees of the Red River Lumber Co. at Westwood, Calif., who have worked continuously since November 1, 1930, who are now unemployed due to the reduction of the force, will not be charged house rent after December 16th, until they are offered work again. Rent only will be free, not heat or electricity, and this rule applies to men who have filed applications for work with the employment department and who will accept any work offered.

San Francisco Labor Council has made the following suggestions to the governor's committee on unemployment:

That citizen labor be employed exclusively on all public work, including the construction of Hoover Dam.

That laborers and mechanics be paid the rates of wages prevailing in the respective trades and occupations in the districts or localities where the work is done.

That the minimum wage for laborers be \$5 per day, both on public and private work.

The governor's committee on unemployment is requested to advocate and propose the foregoing principles to federal and state authorities in charge of construction work.

William Royle, labor commissioner of the State of Nevada, has been informed by J. R. McCarl, controller general of the U. S., in response to an inquiry, that alien labor can be excluded from construction work on the Boulder Dam by writing a clause into the contract providing that American labor, or aliens with first papers, be given preference in employment. In his letter the controller says: "There appears to be no legal objection to including in the advertised specifications to a notification to all prospective bidders and as a stipulation in the contract, an approved condition that preference must be given, so far as practicable to the employment of ex-service men, to the employment of American citizens or aliens who have taken out first papers, in construction work, the former because of the provision in the law passed in December, 1928, giving preference to ex-service men and the latter because it is clearly in the public interest. Such notice in advance would give bidders an opportunity of estimating and computing their costs. An exception to this clause should be permitted only when skilled and unskilled American labor cannot be obtained. Reasonable wages should be paid based on the wage scales of the nearest metropolitan area."

As a penalty for failure to pay his employees the required daily wage scale of \$4.50 on city work, August Fornengo, contractor, may be barred from bidding on city work in Seattle for a period of two years with the possibility that his present contract on 15th avenue west may be revoked. City Engineer R. H. Thomson, and City Building Superintendent J. L. Hardy are acting as a committee for the board of public works and are declared as favoring revocation of Fornengo's contract.

Every employee of the General Electric Co., from president to office boy, who is working 50 per cent or more, will contribute 1 per cent of his December wage to the company's new unemployment fund, and the company will match such contributions dollar for dollar, it is announced by President Gerard Swope.

Under the rules of the unemployment plan, as originally announced, payments were not to be made for at least six months after its inauguration, which would not be until next

January or February, but because of the unemployment emergency it was decided to start relief in December but to limit payments to a maximum of \$15 per week to employees needing assistance. It has also been decided to consider for assistance employees who may not have contributed to the plan but who are in need. Approximately 35,000 employees have been contributing to the fund and on Dec. 1 they had paid in \$550,000.

Edwin Bergstrom at a recent meeting of the Southern California Chapter, American Institute of Architects, made a report on the semi-annual meeting of the national directors of the Institute held in Detroit recently. He stated that at this meeting the directors went on record that it was the stand of the institute that the supervising architect's department of the United States Treasury Department should discontinue the practice of preparing plans for government buildings and should confine its activities to supervision, maintenance and repairs. The same stand was taken relative to buildings constructed by the various state, county and municipal governments. Of the many buildings included in the present program of the United States government, but thirteen are being designed by private architects. Mr. Bergstrom said that the national directors of the institute had also taken the stand against member architects publishing monographs in connection with material dealers or contractors.

Warning that a move is on foot which would cause the collapse of the entire financial setup under which the state highway system is now functioning is sounded by Bert B. Meek, Sacramento, state director of public works.

Destruction of the state's road program would be brought about by diversion of gasoline tax moneys to projects which on the surface are plausible and just, Meek says.

That the move for diversion of gas tax funds would be started within 30 days is Meek's opinion.

Premature grade separation plans, aids to joint highway district groups, efforts to include roads of minor importance in the state system and diversion of funds to pay bond interest and sinking funds are cited by Meek as some of the steps being planned in the "raid" on the gasoline tax funds.

Efforts of municipalities to obtain direct appropriations from the tax fund is another form of attack that would disrupt the present setup, he says.

So that home industry may benefit. Timothy A. Reardon, president of the Board of Public Works, will urge the council to include in the new charter a provision granting local firms submitting bids on city work an advantage over Eastern competitors.

Reardon decided on this step when Assistant City Attorney Henry Heidelberg informed the Board of Works that it could not legally grant the contract to Dyer Brothers, a local concern, for furnishing and installing steel in the new James Lick Junior High School, 25th and Clipper Sts.

The Dyer bid of \$10,500 was \$800 higher than a combined bid of a Minneapolis firm which would furnish the steel and Joseph Garrick of San Francisco who would install it.

The Down Town Association and Home Industry League, eager to obtain as much employment as possible for San Franciscans, urged that Dyer Brothers be granted the contract.

TRADE NOTES

R. C. James, 2321 Second Avenue, Seattle, has been appointed sales representative in the Seattle district for the Ward Leonard Electric Company of Mount Vernon, N. Y.

Lombard Smith Co., 324 North San Pedro St., Los Angeles, has been appointed southern California representative for the Geneva Manufacturing Company at St. Genevieve, Mo., manufacturers of a fan-type portable air heater.

Refrigeration Maintenance Corp., Ltd., of San Francisco, has been incorporated. The company is capitalized for \$25,000. Directors are: E. D. Flynn, A. Osborne, Leonard Tew and F. Larcher.

Hipolite Screen and Sash Company of Los Angeles has filed articles of incorporation with the county clerk in Oakland. The company manufactures windows, screens, fixtures, doors and lumber. Directors are H. H. Mayberry, H. H. Kerchoff, Esperidon Hipolite, M. C. Eshman, S. J. Cook, all of Los Angeles.

J. Allan Ritchie, former Washington representative in Seattle of the Detroit Graphite Company, has been appointed Northwest manager with territory embracing Oregon, Washington, northern Idaho and British Columbia. Seattle offices are in the Lloyd Building.

Frigidaire Sales Corp. has established a Pacific Coast Regional office at 55 New Montgomery Street, San Francisco, having recently moved from Oakland where it was formerly located. Sales of electric refrigerators handled through Pacific Coast, Salt Lake City and Spokane District offices will be supervised from the local headquarters. J. L. Conover is Pacific Coast Regional Manager.

J. G. Pomeroy Company of Seattle, San Francisco, and Los Angeles, has been appointed to represent Fass and Seymour, Inc., Syracuse, N. Y., manufacturers of porcelain and electrical supplies, in the states of California, Nevada and Arizona. A stock of Fass & Seymour products will be carried at the San Francisco warehouse of the Pomeroy Company. George W. Rosekrans, of San Francisco, former northern California salesman of Fass & Seymour, Inc., has joined the Pomeroy Company as a Fass & Seymour specialist.

The trade extension work of the Millwork Institute of California will be accelerated during the coming year and a correspondence course of instruction in the use of the standard millwork schedules will be conducted for the benefit of those who wish to take advantage of it.

Roscoe Neikirk, city building inspector of San Leandro, has resigned and the position will be filled temporarily by Merrill F. Guilwits, superintendent of streets. Guilwits has had considerable previous experience in building inspection work.

Annual convention of the California State Association of Building Owners and Managers will be held in Sacramento, February 13-14. About 250 delegates are expected to attend the meetings. A feature of the convention will be a thorough discussion of the problem of taxation.

ALONG THE LINE

James Everett Havens, manager of the Northern Redwood Company's plant at Arcata, Calif., died in that city Dec. 7, following a brief illness.

Sumner Solitt, past national president of the Associated General Contractors of America, died Dec. 2. At the time of his death, Mr. Solitt was chairman of the board of Sumner Solitt Company of Chicago.

J. G. McMillan, 79, civil engineer and former Santa Clara County Surveyor, is recovering from painful cuts and bruises received when he was run down by an automobile in San Jose last Monday.

Joseph Biven, chief sanitary inspector in the Oakland Health Department, is the newly elected president of the Oakland Municipal Civil Service Association. Merner Morcom is the new vice-president and Jack McNiece, secretary.

L. H. Bennett, president, L. H. Bennett Co., Ltd., northern California distributor of General Electric refrigerators, sailed from San Francisco last month on the steamship President Polk for a trip around the world.

Dr. Frank W. Thomas, president of the Fresno State College, has been elected president of the Fresno City Board of Public Utilities which body will direct the affairs of the municipal water plant, recently purchased from private interests. H. H. Holland and Lucius Powers, Sr., have been elected first vice-presidents of the board; John Roth, second vice-president, and Leon Diamond, secretary.

Joseph A. McMinn has been re-appointed by the Sonoma County supervisors as a member of the board of directors of the Golden Gate Bridge and Highway District. The appointment covers a term of four years.

G. E. Winton, city engineer of Merced, has been appointed chief engineer of the El Nido Irrigation District in Merced County, succeeding A. A. Blakesley, chief engineer of the Merced Irrigation District, who was acting in a consulting capacity during the organization of the district. Improvements involving an expenditure of \$135,000 are to be undertaken at once.

E. C. LaRue and E. F. Jakobsen have dissolved the partnership of La Rue & Jakobsen, consulting engineers, Los Angeles. Both will continue practice as consulting engineers, Mr. La Rue specializing in water-supply problems and Mr. Jakobsen specializing in dam design, irrigation and flood control.

Ray Scoggins, for the last three years assistant engineer of the special construction department of the Bylesby Engineering & Management Corporation, stationed at Marshfield, Ore., has accepted a position as manager of the newly organized Sales Engineering Co., agent for manufacturers of engineering equipment, in Seattle, Wash.

HERE—THERE EVERYWHERE

A bill requiring a state license for all billboards along Colorado State highways will be proposed in January.

Pacific Northwest Branch of the Associated General Contractors of America will hold its annual convention in Seattle, January 9-10. Headquarters will be at the Olympic Hotel.

Annual meeting of the Engineering Section of the Northwest Electric Light and Power Association will be held at Wenatchee, Wash., March 18-20. The scheduling of subjects for the program is already well advanced.

The American Face Brick Association says more than 13,000,000 advertisements ranging from a single column to a full page in four colors will appear in the general and trade press this fall. Since this organization began its advertising campaign in 1919, more than \$1,300,000 has been spent in this activity alone.

George W. Kelham, architect; Robt. A. McKinzie, engineer; Robt. B. Henderson, president of the Pacific Portland Cement Company, and Robt. G. Hooker, Jr., assistant to the president of Gladding, McBean and Company, have been elected members of the Board of Directors of the Industrial Association of San Francisco.

Chas. G. Bird, manager of the Stockton Lumber Company, was elected president of the Central California Lumbermen's Association at the annual meeting held in Stockton Dec. 13, succeeding Warren Tillson of Modesto. T. L. Gardner was re-elected secretary and W. O. Mashek of Modesto was elected treasurer. D. Eslee of Los Angeles, secretary-manager of the California Retail Lumbermen's Association was the principal speaker at the meeting.

L. J. Blanchet, engineer for the A. C. Horn Company, from New York, in addressing the Cement Contractors' Association of Southern California, told of cement contractors' practices throughout the East. He contended that architects and owners can secure better cement work by stating in their specifications that work must be done by a cement contractor approved by the architect and requiring the general contractor to name the cement contractor in his proposal.

Los Angeles county supervisors have under consideration a plan whereby the county's allotment of the State gasoline and motor vehicle taxes may be used for improvement of major traffic arteries to relieve property owners of burdensome assessments which have heretofore been levied for this purpose.

Major O. A. Piper, chief assistant city engineer of Seattle, was elected president of the Seattle Post, Society of American Military Engineers at the annual meeting and election of officers last week. The feature address of the meeting was made by Rear Admiral Luther E. Gregory, retired, past-director of the national body. Other officers elected for 1931 are: Col. W. H. Greeley, first vice-president; Maj. S. E. Hutton, second vice-president; R. A. Davies, secretary and treasurer; Col. Vinton Birch, director-at-large.

TRADE LITERATURE

Equipment and methods used in the manufacture of corrugated concrete pipe are discussed in a 42-page illustrated bulletin of the McCracken Machinery Co., Sioux City, Iowa.

Hungerford & Terry, Inc., Clayton, N. J., have issued a 36-page bulletin on water-purifying apparatus, including softening equipment. This outlines present methods of treating water to fit it for industrial use.

Engineering data on the selection, construction and use of all types of cranes are contained in an unusually complete 160-page handbook published by the Whiting Corp., Harvey, Ill., which is being distributed at \$2 per copy. The book is handsomely bound in flexible leather, and is profusely illustrated.

A German instrument known as the Kuppens Sag Meter, used in the determination of the height of transmission lines and supports and the sag of overhead cables, is described in an 8-page illustrated bulletin issued by the American Askania Corp., 1624 Marine Bank Bldg., Houston, Texas.

"Alpha Cement—How to Use It," a 112-page handbook on the manifold uses of portland cement, has been re-issued in enlarged and improved form by the Alpha Portland Cement Co., Easton, Pa. This handbook contains many valuable data on the mixing of concrete, the use of reinforcement, the construction of forms, concrete blocks and piles, cold weather pouring, and a large variety of other subjects.

A new catalog has been brought out by the Meter Devices Company, Canton, Ohio, incorporating its complete line of metering devices, test switches and accessories.

The development and application of the neon glow lamp are described in a recent bulletin, No. 702, of the General Electric Vapor Lamp Company, Hoboken, N. J.

A revised and enlarged edition of the handbook, "A Guide to Productive Lighting for Industry," has been issued by the Benjamin Electric Manufacturing Company, Des Plaines, Ill.

The Westinghouse general catalog, 1931-1932, comprised of 1352 pages presenting descriptions and illustrations of apparatus representative of the products manufactured and sold by the Westinghouse Electric & Manufacturing Company, has been announced recently by that company.

SAN JOSE PAINTERS ELECT LOOS PRESIDENT

Harry E. Loos was elected president of the San Jose Master Painters' Association at the annual meeting held in the Builders' Exchange of that city last Thursday evening.

N. H. Johnson was elected vice-president, W. Brown, second vice-president, H. E. Hunter, secretary and W. M. Herman, treasurer.

Following the election of officers reports of committees and plans for attendance at the annual state convention to be held in Long Beach on January 22 were discussed.

Cement Contractors of Los Angeles Sign Union Wage Agreement

A majority of members of the Cement Contractors' Association of Southern California have signed an agreement with the cement finishers' union of Los Angeles on a proposed new wage scale. It is reported by A. C. Miller, secretary of the association. Terms of the agreement are summarized by Secretary Miller as follows:

(1) Contractors will be considered as foreman on their work, providing they are on the job continually for duration of the job. (a) Where two or more members constitute a contracting firm, only one member of the firm will be allowed foremanship privileges. (b) Where a contracting firm has more than one job under way, it shall designate one of its members as foreman, paying him foreman's rate of pay, \$11 per day, provided, however, there are three men or more in the crew.

(2) Foreman's rate of pay, \$11, with three or more men in crew.

(3) Cement finishers, other than foreman, \$1.25 per hour.

(4) Overtime rate of pay for Sundays and holidays, time and half time as follows: Memorial Day, Fourth of July, Thanksgiving Day, Christmas Day and New Year's Day. No work on Labor Day, excepting in the saving of life or property.

(5) Men reporting for work at the hour specified by a contractor shall draw pay from that hour, provided, however, there are no delays caused by breaking down of machinery, shortage of materials or delays caused by the elements.

(6) Contractors agree to hire only members of Local No. 627.

FL (9219)

THREE AND ONE-HALF MILLIONS FOR STATE STRUCTURES IN 1931

Plans for a \$3,500,000 program of state building construction which, if approved by the legislature and Governor-elect James Rolph, will provide work for 1000 men during the early part of 1931 were revealed by Rolland A. Vandegrift, Rolph's budget-maker, and the state department of public works.

Vandegrift said the new administration hopes to be able to arrange finances so that more than \$3,000,000 will become available in March, 1931, for construction work at state institutions.

He also announced consideration is being given the request of State Printer Carroll H. Smith that funds be provided in the budget for constructing an addition to the state printing office in Sacramento. The work would cost approximately \$80,000.

The state division of architecture will be prepared to call for bids on twenty-three state building projects in March or three months before the end of the present fiscal year if the money can be appropriated in advance.

Fourteen of the projects are tentatively planned for completion under old appropriations and nine with moneys provided by the new budget for 1931-33. Ordinarily approximately \$1,800,000 would be available for construction work at the time this enlarged and advanced program might be put into effect.

ENGINEERING SOCIETIES EMPLOYMENT SERVICE

Further information regarding positions listed in this column is obtainable from New-ton D. Cook, Room 715, 67 Post Street, San Francisco. (Phone SUitter 1684).

R-3429-S PRODUCTION MANAGER for a company operating several scattered plants in California. The processes are comparatively simple and emphasis is laid upon ability to handle men for efficient results rather than upon technical ability. Applicants must have plant operating experience. Salary depends upon experience and ability. Apply by letter. Headquarters, San Francisco.

R-3320-S MECHANICAL ENGINEER 30-40 years, for sales and service work in connection with the application of petroleum products in the industrial and automotive world. Must be well acquainted with various types of industrial machinery and automotive equipment. Apply by letter with photo. Salary open. Territory, east of Rocky Mountains. Headquarters, Oklahoma.

R-3421-S SALESMAN, experienced, preferably acquainted with conditions in paint manufacturing industry. Must be mechanically inclined, aggressive, and have local references. Salary open. Location, San Francisco.

R-3303-S ENGINEER, between 28 and 35 years old, thoroughly versed in thermodynamics, heat exchange and heat transfer problems. Man with some oil refinery experience preferred. Permanent opportunity for right man. Apply by letter. Location, Northern California.

W-2030 MECHANICAL ENGINEERS young, single, out of college three or four years, who have had some experience in the way of sales contracts, and who would like to apply such experience to the exploitation of cork in the mechanical field. This would be industrial service selling and would entail considerable travelling. Salary to start, \$175-225 a year. Apply only by letter. Headquarters, East.

K-323-W-2071-C-S ASPHALT ENGINEER, graduate civil engineer, single, not over 32, with experience on hot mixed type sheet asphalt, asphalt concrete, penetration preventing by the grouting method, asphalt emulsions, ability to decide proper percentages of various grades of stone, sand, cement and asphalt to secure a road of maximum density, etc. Must be familiar with asphalt literature. Salary \$3600-4000 a year. Apply only by letter. Location, India.

G. E. PLASTIC DEPARTMENT

The various plastic activities of the General Electric Company have been co-ordinated into one department known as the Plastic Department, according to an announcement just made public by Gerard Swope, President of the company. R. E. Coleman has been appointed manager of the new department with an advisory committee consisting of Vice-Presidents J. G. Barry, Chairman, W. R. Burrows, and C. E. Eveleth. The new department will be responsible for sales, engineering and manufacturing of plastic and involves activities at the Pittsfield, Schenectady, Fort Wayne, Erie and Lynn (River) plants of the company.

TRANSPORTATION BODY HAS OPTIMISTIC VIEWS

At a meeting of the Pacific Trans-
Los Angeles yesterday, attended by
over five hundred representatives of
all industries within the states of
California, Arizona, Nevada and New
Mexico, and by representatives of
railroads within the territory and
eastern lines, an optimistic view was
evident concerning business conditions
for the quarter January 1st to March
31st, 1931.

G. A. Lethner, District Manager,
Car Service Division, American Rail-
way Association, San Francisco, re-
ported that for the first ten months
of 1930 there were 1,561,392 carloads
of freight originating in the territory,
a decrease of 150,104 cars, or 10.8% as
compared with the loadings during a
corresponding period of 1929.

This report further pointed out that
perishable loadings show a decrease
of 3054 cars up to November 1st as
compared with the same period of last
year. This decrease being caused by
a much smaller movement of citrus
fruits due to a much shorter crop than
was available the year previous.

An indication of the position the
railroads in the territory are in from
the standpoint of adequate car sup-
ply is shown by the fact that there
was a surplus of 23,432 freight cars
as of November 15th, an increase of
5412 over same date last year.

The fact that only 9% of the total
freight cars on all lines in this ter-
ritory are in bad order indicates that
the railroads have maintained their
equipment in first-class condition.
This is also true of condition of
freight locomotives. Of the 1553 lo-
comotives in the territory only 7.1%
were held for classified repairs.

A resume of anticipated car re-
quirements of various industries re-
porting at the Conference, follows:

BRICK AND CLAY PRODUCTS:
Lack of demand for the products of
this industry accounts for a de-
crease of 6.4% for the coming quar-
ter, compared with 1930, 2262 cars es-
timated as being required. Conditions
are reported as being fair in this in-
dustry.

CEMENT: For the first quarter of
1931, it is estimated that 8164 cars
will be required for this industry, or
approximately the same number as
were actually loaded during the first
quarter of 1930. General outlook is
reported as fair.

GRAVEL, ROCK AND SAND: For the
first quarter of 1931 it is estimated
that 46,712 cars will be required, an
increase of 7.2% as compared with
actual loading during the same period
of 1930. General outlook for the com-
ing quarter reported as being fair.

IRON AND STEEL: It is estimat-
ed that 3351 Cars will be required to
take care of the needs of this indus-
try for the quarter commencing Jan-
uary 1st. This is a decrease of 15.0%
compared with the actual loading dur-
ing the same period of 1930, and at-
tributed to lack of demand. The
general outlook at present is reported
as being fair.

Harry L. Montford, 41, civil en-
gineer and partner in the road build-
ing firm of Montford & Armstrong,
of Sacramento, died in the capitol
city Dec. 11. He had been ill for
eight days.

Montford was a native of Sacra-
mento and was with the California
State Highway Commission about
seven years, serving part of the time
as maintenance superintendent of the
state highway between Placerville and
the Nevada line.

CALIF. MILLWORK INSTITUTE ELECTS

Arthur W. Bernhauer of the Fresno
Phanung Mill, Fresno, has been re-
elected president of the Millwork In-
stitute of California. E. J. Nutting of
Herring & Nutting, San Francisco,
will serve as vice-president of the
Northern District, and J. Wesley
Shrimp of the Cresmer Sife Co., Riv-
erside, as vice-president of the South-
ern District for the coming year. E.
A. Nicholson of Pacific Sash & Door
Co., Los Angeles, will continue as
treasurer, and Lester G. Sterrett as
secretary.

New directors of the institute are:
Elmore King, Bakersfield; R. R. Smith
Portuna; A. W. Bernhauer, Fresno;
H. Coor-Pender, Los Angeles; A. J.
Todhunter, Los Angeles; D. N. Ed-
wards, Oakland; C. W. Lannom, Oak-
land; W. L. Leishman, Pasadena; E.
V. McClinck, Pittsburg; J. W.
Shrimp, Riverside; C. O. Chinchase,
Sacramento; J. Sullivan, Sr., San Di-
ego; H. W. Gaetjen, San Francisco;
E. J. Nutting, San Francisco; H. E.
Weyler, Santa Barbara; J. G. Ken-
nedy, Santa Clara, and T. J. Bridge-
ford, Sebastopol.

GROUND WATER SUPPLIES IN DESERT REGIONS

Contrary to popular opinion, the
water levels in wells are seldom sta-
tionary but are almost constantly
moving slowly up or down. It has
been found that these fluctuations are
due to many different causes, and if
they are accurately recorded and
critically studied they give much defi-
nite information as to the occurrence,
movement, and quantity of the water.
In almost all parts of the country the
water levels decline during the sum-
mer, owing chiefly to the heavy
though invisible draft made upon the
underground reservoirs by plants. In
some wells the water levels decline in
the daytime, when the plants are
transpiring moisture, and recover dur-
ing the night when transpiration is
greatly reduced. Fluctuations of the
water levels are also due to many
other causes, such as changes in at-
mospheric pressure and the ebbing
and flowing of the ocean tides.

Recently the Geological Survey, De-
partment of the Interior, has obtained
continuous records of the daily fluc-
tuations of the water levels in nearly
100 wells in the Eucalyptus Valley,
Utah, by means of automatic water-
stage recorders that were installed
over the wells. From these records
it was possible to compute the amount
of water that is annually withdrawn
by the desert vegetation from the
great underground reservoir beneath
this arid region, and hence to esti-
mate the quantity of water that can
safely be recovered annually for
irrigation or other uses. It is expected
that the methods developed in this
investigation can be applied in many
other desert regions where it is of
great consequence to determine the
quantity of water available.

A report on the results of the Eu-
calyptus Valley investigation has been
completed by W. N. White and will
eventually be published by the Geo-
logical Survey. To make the results
immediately available, the report has
been released to the public in manu-
script form. The complete report can
be consulted at the office of the Geo-
logical Survey in Washington, D. C.,
and copies of the text, without the
illustrations, can be obtained from the
district office of the Geological Sur-
vey, Federal Building, Salt Lake City,
and at the office of Prof. William Pat-
erson, State geologist, Logan, Utah.

LOCAL MATERIAL AND LABOR URGED FOR WAR MEMORIAL

Use of local materials and the em-
ployment of local labor on the San
Francisco War Memorial Buildings is
urged in a resolution adopted by the
Ornamental Plasterers' Union No. 460
and unanimously approved by the San
Francisco Building Trades Council,
the San Francisco Labor Council and
many civic and fraternal organiza-
tions. The resolution is published
herewith:

"WHEREAS, the leading American
communities are pursuing the policy
of patronizing their local industries
and keeping the local payrolls within
their respective territories;

"Whereas, a like policy has been
publicly announced by the San Fran-
cisco city administration, prominent
civic and labor organizations, with
the further emphasis upon economical
use of taxpayers' money;

"Whereas, the inclusion in the gen-
eral contract for the War Memorial
buildings of the stone, natural or arti-
ficial, for the facing of the said build-
ings and the interior, amounting to
about \$1,000,000, would violate the
above mentioned policies for the fol-
lowing reasons:

"1. Such inclusion would result in
the usual addition of 10 per cent, or
about \$100,000, by the general con-
tractor, this money constituting a
total waste with the work supervised
by the architect and the building su-
perintendent.

"2. Such inclusion would result in
giving the general contractor the au-
thority of sub-contracting the work
to whomever he wished, with the
likelihood that the matter would be
decided not upon the individual prefer-
ences or prejudices of the general
contractor, with the further likelihood
that the work would go to an out-of-
town concern and the huge payroll
lost to this community.

"Therefore, be it resolved, that we,
the Ornamental Plasterers' Union,
Local No. 460, of San Francisco, in
the regular meeting assembled this
eleventh day of November, 1930, go
on record favoring the segregation of
the contract for the stone for the fac-
ing of said buildings, and the interior,
with a view of saving about \$100,000
of the taxpayers' money and of safe-
guarding the interests of local in-
dustry whose product we consider to
be superior in quality and more ap-
propriate.

"Be it further resolved that copies
of this resolution be sent to the Board
of Trustees of the San Francisco War
Memorial, the Board of Supervisors,
the War Veterans' Organizations,
Down Town Association, the press,
and such other parties as may be
legitimately interested in the matter."

Bids will be considered December
29 by the Director of Supplies, U. S.
Department of Commerce at Washing-
ton, D. C., for installation of lighting
facilities on the San Diego-Los An-
geles airway. The work will include
installation of 6 24-inch electric re-
volving beacons, together with other
necessary appurtenances and acces-
sories, between San Diego and Los
Angeles, Calif., a distance of about
200 miles. The beacons as a rule will
be mounted on 51 ft. or other height
galvanized steel skeleton towers and
the appurtenances will include course
lights and concrete directional ar-
rows.

CEMENT INDUSTRY ABOLISHES MUCH-ABUSED DEALER'S DISCOUNT

Cement producers took a long step toward improvement of conditions in their harassed industry when they decided to eliminate the traditional "dealer's differential," says the Business Week. Lehigh Portland Cement Co. led the way. Others promptly joined; 70% of the industry's total capacity already is pledged. More will fall in line.

The "dealer's differential," commonly 10c a barrel, was all right in theory. In practice, it served to screen many destructive practices. Some of the "dealers" who got it would have been hard put to it if asked to show a store or warehouse, and horribly embarrassed if forced to tell what they did with some of the money.

The average road job calls for 3500 barrels of cement to the mile. In 1920, contracts for 148 million square yards of concrete paving were let, calling for millions of barrels of cement. Scramble for this business made "dealers" out of men who knew little about concrete but much about practical politics. Cases are on record where the "dealer" handled the differential on 50,000 barrels; got only \$100 for himself.

Started Direct Buying

In revolt against such conditions many states and municipalities have come to insist on buying cement direct from the producer. Michigan went so far as to build its own cement plant.

Something radical had to be done. Other attempts to stabilize the industry failed. Price-cutting, special concessions, dubious ethics gained ground steadily.

The cut-throat scramble for business was inevitable, because even in good times producing capacity exceeds consumption. In 1924, consumption was 150 million barrels; 14.7% of plant capacity was idle. In 1929, consumption had reached 171 million barrels, and 34.2% of equipment was idle. Plant construction had far outstripped market growth.

So they went after volume. Bids on public works involving open price competition automatically reduced current price levels. With a constantly increasing overhead due to carrying idle equipment and to higher labor costs, the profit margin had been reduced to the danger point. Average selling price at plants dropped from \$1.843 per barrel in 1924 to \$1.601 in 1929.

—And Direct Selling

Struggling for volume, producers invaded territories where freight rates prohibit competition at a profit. Many disregarded all dealer connections and quoted the consumer direct.

Most of these disturbing practices originated with the smaller producers, but affected all. Earnings of three leading companies reflect the unsatisfactory state of affairs in the industry. Net income of Alpha Portland Cement Co., operating 9 plants in 8 states, dropped 52.4% from \$3,814,579 in 1925 to \$1,815,018 in 1929. Lehigh Portland Cement Co., with 20 plants in 10 states, in the same period lost 38.4% in sales, while net income dropped 56.2%. International Cement Co. increased its sales by 46.3% while earnings rose only 13.3%.

All this disorganization of price levels and trade practices in the cement industry affected the position of contractors anxious to bid on construction jobs. They came to contend that where most of the dealers performed no function, they had no right to collect a differential. A single price, contractors said, would greatly improve general competitive conditions in the field.

Seeing the entire distributing struc-

ture of the cement industry endangered, anxious to adhere to its announced policy of distribution thru dealers only, Lehigh Portland Cement Co. decided on a new plan of marketing. Henceforth Lehigh will sell cement to dealers and contractors at the same price. The "trade discount" or "differential" is eliminated. At the close of the calendar year, and at no other time, dealers will be paid a 5c a barrel service payment for cement actually shipped to their warehouses, or on carload orders actually sold at consumer prices for shipment to other points.

Advantages claimed for the new plan: (1) preservation of the principle of dealer distribution; (2) elimination of the waste of paying differentials for no service rendered; (3) incentive to established dealers to build for stability of their cement business; (4) elimination of the break-down of trade practices by weaker dealers; (5) improvement of incentive for dealer service to contractors; (6) lower and more stable basic cost to the consumer.

Although many established dealers of cement and building supplies oppose the new plan, others are enthusiastic, welcome the change. Contractors believe that it will greatly improve their chances when bidding on specific jobs.

Makers of Alpha, Universal, Penn-Dixie, Edison, Hercules, Glens Falls, Sandusky, Bessemer, Vulcanite, Superior, Nazareth, Dragon, South Western, Columbia Portland cement, have already fallen in line. International Co. is one of the larger concerns having the matter still under advisement.

The volume of construction in Chicago for the year 1930 will be considerably less than half of the amount for 1929.

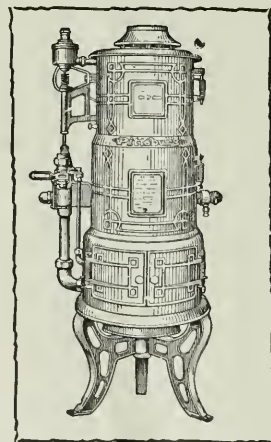
NEW PROJECT FOR DOMESTIC GAS BURNING APPLIANCES ANNOUNCED

The American Gas Association has been appointed sole sponsor for a new project, Approval and Installation Requirements for Domestic Gas Burning Appliances (Z21), by the American Standards Association Standards Council. The scope of the project has been approved as follows:

"Establishment of minimum or basic requirements for safe operation, satisfactory performance, and a substantial and durable construction for domestic gas burning appliances; together with laboratory methods of test for determining compliance therewith."

The sectional committee in charge of the project is under the chairmanship of Mr. R. B. Harper, The People Gas Light and Coke Company, 122 South Michigan Ave., Chicago, Illinois, and includes in its membership representatives of five gas companies, seven gas appliance manufacturers, the United States Bureau of Standards, the United States Bureau of Mines, the United States Public Health Service, the United States Department of Agriculture, the Bureau of Home Economics, The American Home Economics Association, the Master Plumbers' Association, and the Heating & Piping Contractors National Association. The secretary of the committee is Mr. R. M. Conner, American Gas Association, 1032 East 62nd Street, Cleveland, Ohio.

Plans to enlarge the recently organized Santa Rosa Builders' Exchange into a county-wide organization were made at a banquet-meeting held in the Occidental Hotel, Santa Rosa, last Wednesday. Officers of the exchange will be elected at a meeting January 5 when it is expected the present membership will be increased from 60 to 100. Don Dickinson is chairman of the membership committee.



A "Pittsburg" Automatic Water Heater installed in the Home indicates high quality throughout.

Recommended and specified by all the leading architects, plumbers and builders.

Consider the high merit of the Pittsburg coupled with "Pittsburg Perfect Service."

"Hot water quick as a wink."

Pittsburg Water Heater Co.

Makers of "Pittsburg Automatic"—"Bungalow Automatic"

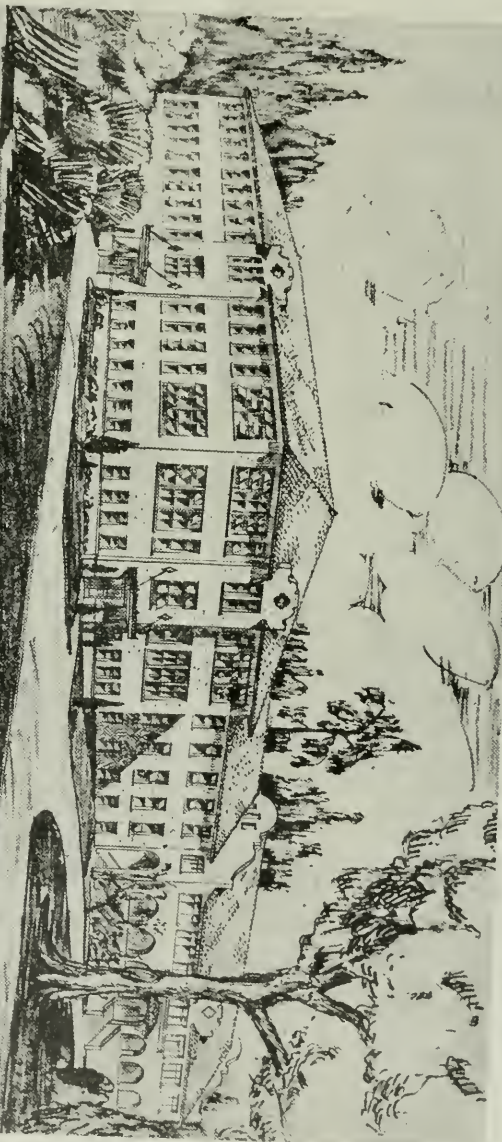
Storage Systems and "Lyon" Tank Water Heaters.

309 13th Street, Oakland

478 Sutter St., San Francisco

SEND FOR CATALOGS

PLANS STARTED FOR FRESNO COUNTY HOSPITAL ADDITIONS



ADDITIONS TO THE FRESNO COUNTY GENERAL HOSPITAL. SWARTZ & RYLAND ARCHITECTS.

Swartz and Ryland, Fresno architects, have started plans for the proposed additions to the Fresno County Hospital. Bonds of \$250,000 were authorized at the November General Election to finance the work which will consist of two separate buildings, the main structure being at the west side of the present main hospital building. This unit will provide for the care of children on the first floor and for contagious cases on the second floor with a therapy ward in the basement.

The other unit will replace the present two-story section of the hospital attached to the north of the main building. This unit will be three stories in height and equipped entirely as an operating unit. (Cut, courtesy of Fresno Republican).

Building News Section

APARTMENTS

Contract Awarded.
APARTMENTS Cost, \$100,000
LOS ANGELES, Cal. No. 5546 Lexington Avenue.
Four-story Class C brick apartments (50 rooms).
Owner—Victoria C. Miller.
Architect—Not Given.
Contractor—Garikd K. Sgaw, 3457 W. Sixth St., Los Angeles.

Plans Completed.
APARTMENTS Cost, \$40,000
OAKLAND, Alameda Co., Cal. Lake Merritt District.
Three-story wood frame apartments with concrete basement (12 2-rm. and 12 3-room apts.)
Owner—Withheld.
Plans by L. F. Hyde, 372 Hanover St., Oakland.
Bids will be taken within a few days.

Preparing Plans.
APARTMENTS Cost, \$200,000
CALIFORNIA, East Bay Section.
Six-story and basement reinforced concrete apartments.
Owner—Withheld.
Plans by C. M. Baker, 155 Montgomery St., San Mateo.
Bids may be taken in two weeks. More definite information will be given shortly.

Preparing Working Drawings.
APARTMENTS Cost approx. \$20,000
SANTA ROSA, Sonoma Co., Cal. 7th and A Sts.
Two-story frame and stucco apartments (6 apts.)
Owner—P. Gambini and S. Testorelli, Santa Rosa.
Architect—Wm. Herbert, Rosenberg Bldg., Santa Rosa.
Bids will be taken in one week.

Plans Being Completed.
APARTMENTS Cost, \$25,000
FURLINGAME, San Mateo Co., Cal. Two-story and basement frame and stucco apts. (17 2- and 3-room apts.)
Owner—E. Cobo, care architects.
Plans by Grimes & Schoening, Balovich Bldg., San Mateo.
Bids will be taken about Dec. 19.

Plans Being Completed.
APARTMENTS Cost, \$50,000
SAN MATEO, San Mateo Co., Cal. Ellsworth Avenue.
Three-story and basement frame and stucco apts. (18 2- and 3-room apts.)
Owner and Builder—A. J. Feasey, 1411 B St., San Mateo.
Plans by Grimes & Schoening, Balovich Bldg., San Mateo.
Sub-bids will be taken in a few days.

Structural Steel Contract Awarded.
APARTMENTS Cost, \$200,000
SAN FRANCISCO, SE Sacramento and Gough Streets.
Seven-story steel frame, wood and concrete class C apartments (42 apts.)
Owner—W. Pors, 1801 California St.
Architect—Irvine & Ebbs, Call Bldg.
Engineer—W. Adrian, 417 Market St.
Structural Steel—Golden Gate Iron Works, 1541 Howard St.
Sub-bids are being taken on other portions of the work.

Sub-Bids Wanted.
APARTMENTS Cost, \$50,000
ALAMEDA, Alameda Co., Cal. 1538 St. Charles Street.
Three-story and basement frame and stucco apartments (48 rooms).
Owner and Builder—J. M. Kinley, 2120 Delaware St., Berkeley.
Plans by Owner.
Sub-bids are wanted on sash and doors, trim and heating.

To Be Done By Day's Work.
APARTMENTS Cost, \$45,000
SAN FRANCISCO, NW Thirtieth Ave. and Fulton St.
Three-story and basement frame and stucco apartments (15 apts.)
Owner and Builder—A. T. Morris & Sons, 3500 Fulton St., San Francisco.
Plans by Owner.

Sub-Bids Wanted.
APARTMENTS Cost, \$50,000
SAN MATEO, San Mateo Co., Cal. Ellsworth Avenue.
Three-story and basement frame and stucco apts. (18 2- and 3-room apts.)
Owner and Builder—A. J. Feasey, 1411 B St., San Mateo.
Plans by Grimes & Schoening, Balovich Bldg., San Mateo.

Bids Opened—Held Under Advertisment.
APARTMENTS Cost, \$50,000
SAN FRANCISCO, N Oak St. W Occavia St.
Three-story and basement frame and stucco apartments (24 2-rm apts.)
Owner—Lennon Estate, % architect.
Architect—Krafft and Sons, Phelan Bldg.
Engineer—A. J. Krafft, Phelan Bldg.

Completing Plans.
APARTMENTS Cost, \$30,000
SAN FRANCISCO, Marina District.
Three-story and basement frame and stucco apartments (six four-room apts.)
Owner and Builder—Ben. Liebman, 1555 Francisco St.
Architect—R. R. Irvine, Call Bldg.
Sub-bids will be taken in one week.

Low Bidder.
APARTMENTS Cost approx. \$300,000
ALAMEDA, Alameda Co., Cal. NW Webster and Taylor Sts.
Seven-story reinforced concrete and

steel apartments (60 2-3- and 4-room apts.)
Owner—J. S. Bercovich, Activo Bldg., Oakland.
Plans by Thomas Keenan, 1440 Broadway, Oakland.
Low Bidder—G. P. W. Jensen, 320 Market St., San Francisco.

BONDS

LAKEPORT, Lake Co., Cal.—Election will be held January 3 in Sulphur Banks School District to vote bonds of \$8,000 to finance erection of a new school. Previous election failed to carry by a slight majority. Trustees of the district are Luella B. Carr, Albert F. Wolbert and A. L. Story.

OROVILLE, Butte Co., Cal.—City Council contemplates a bond issue to secure funds to finance purchase of site and erection of a new fire department building.

SALINAS, Monterey Co., Cal.—Election will be held December 29 in El Sausal School District to vote bonds of \$9000 to finance school improvements. Trustees of the district are: H. Ruggles, C. A. Lee and R. W. Adcock.

ONTARIO, San Bernardino Co., Cal.—Chaffey Union High School District, Ontario, proposes erection next year of second unit of Chaffey Junior College in Chaffey Junior College site at Ontario. Allison & Allison, 1005 California Reserve Bldg., Los Angeles, architects. Cost, \$110,000.

CHURCHES

Sub-Contracts Awarded.
CHURCH Cost Approx. \$100,000
SACRAMENTO, Sacramento Co., Cal. SW 39th and J Sts. (106x324 ft).
Two-story brick and concrete church.
Owner—Roman Catholic Bishop (Rev. M. J. Lyons, Pastor).
Architect—Harry Devine, California State Life Bldg., Sacramento.
Contractor, Wm. C. Keating, Forum Bldg., Sacramento.
Plumbing, Heating and Ventilating—Luppen & Hawley, 3126 J St., Sacramento.
Electric Work—J. C. Hobrecht, 1020 J St., Sacramento.
Mill Work—Capital City Planing Mill, 1812 9th St., Sacramento.
Terrazzo Work—Oakland Concrete & Terrazzo Co., Oakland.
Terra Cotta—Cladding, McBean & Co., San Francisco.
Reinforcing Steel—Harry L. Weaver, 3909 Miller St., Sacramento.
Sheet Metal—McLaughlin Sheet Metal Works, 1914 I St., Sacramento.
Painting—P. C. Roddy, 614 25th St., Sacramento.
Plastering—Thomas F. Scollan Co., 2919 T St., Sacramento.
Glass—East Bay Glass Co., Oakland.
Lumber—Diamond Match Co., Chico.
Excavation—J. R. Reeves, 12th St. and American River, Sacramento.

SAN FRANCISCO.—Architect Arnold Constable, 580 Market St., is taking bids from a selected list of bidders for furnishing oak choir stalls and screens and church furniture. They are to be installed in St. Dom-

SKILSAW Portable Electric Hand Saws (4 models).

SKILSAW Portable Electric Sander
SKILSAW Radial Arm Attachments.

SYNTRON Portable Electric Hammers (4 models, motorless).

MALL Flexible Shaft Machines (50 models).

Electric Drills, Grinders, Buffers, Routers, Lock Mortisers.

PETER H. NELSON

Labor Saving Portable Electric Tools.

1248 Mission St. Underhill
San Francisco 7662
SALES . SERVICE . RENTALS

Inic Church, Hush and Stelner Sts., for the Roman Catholic Archbishop of San Francisco.

Prospective Bidders.
CHIAPEL \$40,000 Appropriated
SAN FRANCISCO. Presidio Reservation.

Two-story reinforced concrete chapel, (70x47 ft., seating 200; Mission style Sunday school in basement).
Owner—United States Government.
Architect—Constructing Quartermaster, Fort Mason, San Francisco.

Following is a list of contractors who have secured plans:

General Contract

P. F. Spiedel, 185 Stevenson St.
Wm. Martin, 666 Mission St.
Strehlow & La Voie, 1274 Dolores St.
Gauley & Yount, 299 22nd Ave.
S. Rasori, Call Bldg.
F. C. Amoroso & Sons, Wallace and Keith Sts.

J. Harold Johnson, Hearst Bldg.
H. L. Petersen, 731 Treat Ave.
Sorensen & Hagmark, 2652 Harrison St.

Frank J. Kelly, 666 Mission St.
McCarthy & Johans, 741 14th St.
T. B. Goodwin, 2250 Divisadero St.
Meyer Bros., 727 Portola Drive.
Monson Bros., 475 6th St.

I. M. Sommer, 901 Bryant St.
L. M. Bruce, 3653 Divisadero St.
J. A. Bryant, 185 Stevenson St.
A. Nelson, 242 Ocean Ave.

George Johnson, 758 Monterey Blvd.
Jacks & Irvine, 74 New Montgomery
N. H. Sjoberg & Son, Call Bldg.
Joel Johnson & Son, 666 Mission St.
Sullivan & Sullivan, 2653 Best Ave., Oakland.

K. E. Parker, 135 South Park.
William Spivock, Hobart Bldg.
Thomas R. Smith, 1483 Palou Ave.
Young & Horstmeier, 461 Market St.
J. W. Cobby & Son, 260 Tehama St.
Pearl Lind, 64 Stanton St.

Electric, Plumbing and Heating
Atlas Elec. & Eng. Corp., 343 11th St.
Aladdin Heating Corp., 557 Market St.
G. H. Armstrong, 2890 Howard St.
Henry Ernst & Sons, 1551 Hayes St.
Pence Merf Elec. Co., 10 Brady St.
Aetna Elec. Co., 1337 Webster St.

Others who have secured plans follow:

N. Clark & Son, 116 Natoma St.
W. W. Wetenhall, 17th and Wisconsin Streets.

Ace Sheet Metal Works, 444 Clementina St.

Noyes Roach & Co., 415 Clinton St., Joliet, Ill.

Mangrum Holbrook Co., 1235 Mission Wiley T. Vaughn, Wildon Ave., Oakland.

LeRoy Building Service, 354 Hobart St., Oakland.

Seth E. Butler, 353 10th St.

Bids are to be opened December 29, 11 A. M. Tile roof, cast artificial stone and terra cotta front, artificial tile floors, hot air fan system, oil burners, oil tanks, motor and outlet for organ, 3 lavatories, acoustical plaster interior, Spanish Mission texture. Organ not included in general contract.

Completing Plans.
CHURCH Cost, \$12,000

TAFT, Kern Co., Cal.
One-story frame and stucco church (70x50 ft.) auditorium to seat 250.
Owner—First Christian Church of Taft.

Architect—Robert H. Orr, Corporation Bldg., Los Angeles.

H. J. Kirchlein is chairman of the building committee

Composition shingle roof, steel sash, gas steam radiators, wood trusses, etc.

Plans Being Prepared.
CHURCH Cost, \$75,000
BERKELEY, Alameda Co., Cal.
Scenic and Le Conte Aves.
One-story brick church (to seat 5000).
Owner—University Christian Church
Architect—W. H. Ratcliff Jr., Chamber Commerce Bldg., Berkeley.
Bids will be taken in 30 days.

Being Done by Day's Work.
CHURCH Cost, \$8500
BERKELEY, Alameda Co., Cal. No. 1521 Derby Street.
One-story and basement frame and stucco church (5 rooms).
Owner—Free Methodist Church, Berkeley.

Plans by G. W. Slack, 2412 Acton St., Berkeley.
Sub-bids will be taken on plumbing, plastering, roofing, etc.

FACTORIES AND WARE-HOUSES

Plans Being Completed.
SERVICE BLDG. Cost, \$60,000
SAN MATEO, San Mateo Co., Cal.
Group of service buildings (concrete construction).
Owner—Pacific Gas & Electric Co., 245 Market St., San Francisco.
Plans by Eng. Dept. of Owner.
Bids will be taken within a week.

Plans Being Figured—Bids Close Jan. 2, 8:15 P. M.
HANGAR Cost, \$35,000
SACRAMENTO, Sacramento Co., Cal.
Freepoint Blvd. at Municipal Airport.

Steel frame and wood hangar and air terminal station, 80x100-ft.
Owner—City of Sacramento (to be leased to Boeing Air Transport Company).

Architect—Harry Devine, 1405 Forty-first St., Sacramento.
Structure will be of steel frame and wood construction covering an area of 80 by 100 ft., with an exterior covering of corrugated iron.

Preparing Preliminary Plans.
WAREHOUSES Cost, \$600,000
LOS ANGELES, Cal. Pico Blvd. and Highland Ave.

Two reinforced concrete Class A warehouses (60x300 ft. each).
Owner—Hancock Park Warehouse Corp.

Architect—Rudolph Falkenrath Jr., Chamber of Commerce Bldg., Los Angeles.

Will contain elevators, steel canopies, double tract transportation facilities, etc.

Contract Awarded.
ADDITION Cost, \$11,800
SAN FRANCISCO. Eighteenth and Carolina Streets.
Wood and structural steel addition to factory.

Owner—Kaiser Paving Co., 74 New Montgomery St., San Francisco.
Engineer—L. H. Nishiklan, 525 Market St., San Francisco.
Contractor—Barrett & Hill, 918 Harrison St., San Francisco.

Contract Awarded.
SHED Cost, \$10,000
STOCKTON, San Joaquin Co., Cal. No. 1024 East Channel St.
Frame packing shed.
Owner—Citizens Investment Co., 1024 E Channel St., Stockton.
Architect—Not Given.
Contractor—E. H. Riley, Wolf Hotel Bldg., Stockton.

SACRAMENTO, Cal.—State Fair Agricultural Society plans erection of a \$125,000 livestock building and \$75,-

000 poultry barn at the State Fair Grounds, plans for which will be prepared by the State Department of Public Works, Division of Architecture, Public Works Bldg., Sacramento.

LONG BEACH, Los Angeles Co., Cal.—Standard Gypsum Co., Festus T. McDonough, Southern California manager, may proceed with expansion of its Long Beach plant next year. Plans have been drawn for additional facilities and buildings to be erected on the company's three-acre factory on the company's three-acre factory site on Water St. It is the intention to eventually improve the entire site.

OAKLAND, Cal.—Key System, Ltd., and Western Pacific and Great Northern Railroads are said to be considering the establishment of a \$4,000,000 terminal on the Oakland waterfront west of the Key Bldg. The report followed the authorization of the City Port Commission to the railroads to switching rights on the western waterfront. Officials of the railroad companies refuse to confirm or deny the report.

GARAGES AND SERVICE STATIONS

Contract Awarded.
GARAGE Cost, price, \$26,792
BERKELEY, Alameda Co., Cal. Oxford Street.

Class C concrete garage and service station.

Owner—Regents of University of California, Berkeley.
Architect—W. H. Ratcliff, Jr., Chamber of Commerce Bldg., Berkeley.
Lessee—Richfield Oil Company.
Contractor—Barrett & Hill, 918 Harrison St., San Francisco.

GOVERNMENT WORK AND SUPPLIES

WASHINGTON, D. C.—Bids are being received by Bureau of Supplies & Accounts, Navy Department, Washington, D. C., to furnish and deliver miscellaneous supplies and equipment as noted in the following schedules, further information being available from the Navy Department Office, 100 Harrison St., San Francisco:

Bids Open Jan. 2
Western yards, medium and high tensile steel shapes; sch. 4731.

Bids Open Jan. 6
San Francisco, 1 motor-driven 36-inch band saw; sch. 4716.

Western yards, compressed cork composition splice blocks; sch. 4673.

Mare Island, two 3000 gal capacity gasoline storage tanks and Puget Sound, 2 do, sch. 4653.

Mare Island, 9000 ft. rubber-lined fire hose; sch. 4703.

San Francisco, two motor-driven bench drills; sch. 4705.

Puget Sound, 1 motor-driven blue and brown printing machine; sch. 4709.

Mare Island, 7 power driven sounding machines and spares; sch. 4729.

Puget Sound, 3 electric rivet heaters; sch. 4738.

Western yards, aircraft propeller blades and hubs; sch. 4752.

San Francisco, one forging single frame steam hammer; sch. 4717.

Puget Sound, 1 motor-driven tool and cutter grinder; sch. 4719.

San Francisco, 1 motor-driven drum and disc sander; sch. 4747.

Mare Island, 200 telephone headsets and spares; sch. 4745.

Puget Sound, 1 electric-driven vacuum cleaner, on truck, sch. 4739.

San Diego 6000 lbs. rolled zinc; Mare Island 2000 lbs. sheet zinc; sch. 4625.

Bids Open Jan. 13
Mare Island, 8 forced draft blowers and spare parts, sch. 4723.

SANTA ANA, Cal.—In addition to those previously reported, following are prospective bidders for Santa Ana Postoffice, bids for which will be opened by the Supervising Architect, Treasury Department, Washington, D. C., January 12:

Schuck Const. Co., 1932 W 62nd St., Los Angeles, Calif.
 Sarver & Zoss, 727 W 7th St., Los Angeles, Calif.
 Robt. E. McKee, 1123 Central Bldg., Los Angeles, Calif.
 Wurster Const. Co., Architects Bldg., Los Angeles, Calif.
 R. E. Campbell, 108 W 6th St., Los Angeles, Calif.
 W. J. Shirley, 1351 W Washington St., Los Angeles, Calif.
 Harvey A. Nickols, 936 E Slauson Ave., Los Angeles, Calif.
 William MacDonald Const. Co., St. Louis, Mo.

SACRAMENTO, Calif.—Blake Bros., Balboa Bldg., San Francisco, at \$2.60 ton (\$13,000) submitted low bid to U. S. Engineer Office, Sacramento, to furnish, deliver and place 5,000 tons rip-rap stone along the Sacramento river between Mayberry Slough and Eakers Point. Other bids, all taken under advisement, are: Hutchinson Co., Oakland, \$2.65 ton (\$13,250); Healy-Tibbitts Co., San Francisco, \$2.76 ton (\$13,800).

Plans Being Figured—Bids Close Jan. 5, 3 P. M.

FOUNDATION WORK Cost, \$—
 OAKLAND, Calif.
 Foundation work in connection with proposed new postoffice.

Owner—U. S. Government.
 Plans by Supervising Architect, Treasury Dept., Washington, D. C.

Bids for the foundation work only on this structure are desired. Bids for the building proper will be asked upon the completion of plans.

See call for bids under official proposal section in this issue.

ALBROOK FIELD, C. Z.—J. A. Jones Construction Co., Charlotte, N. C., at \$1,652,850 awarded contract by Department Quartermaster, Panama Canal Dept., Quarry Heights, C. Z., for constructing four field officers' quarters, 27 duplex non-commissioned officers' quarters (54 sets of quarters), and 1 bachelor officers' quarters (16 apts.), two 110 men air corps barracks and two 200-men air corps barracks, including town site grading, involving earth and rock excavation, and the roads, walks, water lines, sewers, duct lines, drainage, etc., in connection with the buildings at Albroke Field, C. Z.

COCO SOLO, C. Z.—Following is a partial list of prospective bidders for elevator to be installed at Coco Solo, bids for which will be opened by the Bureau of Yards and Docks, Navy Department, Washington, D. C., January 7:

Warner Elevator Co., Spring Grove Ave., Cincinnati.
 Moffatt Machinery Mfg. Co., Charlotte, N. C.
 Kimball Bros. Co., Council Bluffs, Iowa.
 S. Heller Elevator Co., Milwaukee, Wis.
 New Era Elevator and Machine Co., 611 C St. N. W., Washington.
 Otis Elevator Co., Washington.
 Work under Spec. No. 6356.

SAN FRANCISCO.—Steel Tank & Products Corp., Chicago, at \$1,500 (delivery at Brooklyn) submitted lowest bid to Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver pressure type water softener. The normal operating capacity per regeneration shall be 75,000 gallons based on water with 3.0

grains hardness per U. S. gallon. Softener shall have a normal softening rate of 100 gallons per minute. Softener shall have a maximum rate of flow of 140 gallons per minute. The maximum rate of flow shall not exceed 5 gallons per minute per sq. ft. of zeolite area.

Following is a complete list of bids:
 Steel Tank & Products Co., Chicago, \$1,500
 Rafanite Company, 1,725
 (alternate) 1,550
 Stout Steffens Equip. Co., 1,560
 California Filter Co., 1,768
 Permudas Company, 1,795
 International Filter Co., 1,853
 Lakeside Engineering Corp., 1,891
 Graner Tank & Mfg. Co., L. A., 2,100
 Crane Company, 2,270
 Elgin Softener Corp., 3,443
 Bids held under advisement.

CORVALLIS, Ore.—As previously reported, Hall, Bauer & LaBahn, Chicago, at (a) \$102,000 for limestone and (b) \$104,000 for sandstone, submitted low bid to the Supervising Architect, Treasury Department, Washington, D. C., to erect postoffice at Corvallis. Following is a complete list of bids received:

Hall, Bauer & LaBahn, Chicago	(a) \$102,000
	(b) \$104,000
A. M. Lundberg, St. Louis	(a) \$103,700
	(b) \$105,700
Schuler & McDonald, Oakland	(a) \$109,747
	(b) \$109,677
W. D. Lovell, Minneapolis	(a) \$110,350
	(b) \$100,900
Field & Martin, Minneapolis	(a) \$112,683
	(b) no bid
Walter Peterson, Omaha	(a) \$112,866
	(b) \$114,866
DeVault & Deitrich, Canton, Ohio	(a) \$113,139
	(b) \$115,300
Ring Const., Minneapolis	(a) \$113,600
	(b) \$114,000
Bhelds & Drake, Minneapolis	(a) \$114,700
	(b) no bid
Harry Boyer Sons, Olympia, Washington	(a) \$114,892
	(b) \$115,487
Bartleson & Ness, Seattle	(a) \$115,800
	(b) \$116,300
O. R. Waymon, Portland	(a) \$118,452
	(b) \$118,352
Quinn Const. Co., Klamath Falls, Ore.	(a) \$119,888
	(b) \$119,888
Settegreen Bros., Portland	(a) \$120,488
	(b) \$120,488
J. E. F. Campbell, San Diego	(a) \$121,614
	(b) \$122,154
I. L. Young, Portland	(a) \$123,644
	(b) \$123,644
Baker Const. Co., Portland	(a) \$125,696
	(b) \$129,445
R. O. Powers, Portland	(a) \$127,348
	(b) \$127,348
A. F. Mowat, Seattle	(a) \$133,400
	(b) \$133,400
Teller Const. Co., Portland	(a) \$137,248
	(b) \$137,248
L. M. Traver, Corvallis	(a) \$145,697
	(b) \$145,600
Wm. Wills, Seattle	(a) \$148,080
	(b) \$149,380
Fred H. Erickson, Salem, Oregon	(a) \$152,716
	(b) \$151,216

COCO SOLO, C. Z.—Until Jan. 7, under Spec. No. 6356, bids will be received by Bureau of Yards & Docks, Navy Department, Washington, D. C., for electric freight elevator at Coco Solo, C. Z. Deposit of \$10 required for plans, obtainable from above.

SAN FRANCISCO—Until December 22, 10 A. M., under Schedule No. 923-1154, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and de-

liver one hot water heater with storage tank, flanged steel body; tested to 150 lbs., hydrostatic pressure, with a capacity of 400 gallons hot water per hour. Tank to be 54" dia. x 60" long. Further information obtainable from above.

Plans Being Prepared.
 BARRACKS Costh, \$195,000
 MARE ISLAND, Cal.
 Barracks building in connection with submarine base.
 Owner—United States Government.
 Plans by Bureau of Yards and Docks, Navy Dept., Washington, D. C.

SUNNYVALE, Santa Clara Co., Cal.—Naval Affairs Committee, by a vote of 18 to 1 recommends that the \$5,000,000 west coast dirigible base be located at Sunnyvale.

The largest single unit in the contemplated construction of this project will involve a hangar 1200 ft. long, 325 ft. wide and 211 ft. high. Following is a tentative compilation of the building planned and the estimate cost of each:

Hangar and shop	\$2,250,000
Mast	25,000
Power system, telephone, etc	410,000
Laundry	90,000
Water system and supply	55,000
Sewerage disposal	65,000
Incinerator	7,500
Helium storage	295,000
Helium repurification plant	108,000
Gas cell storage and repairs	160,000
Storehouse	140,000
Gasoline storage	20,000
Inflammable stores	11,000
Aerological station (without equipment)	31,000
Fire station and equipment	40,000
Crane and locomotive sheds	7,500
Hydrogen sheds	5,000
Motor test stand	4,000
Balloon inflation shed	5,000
Railroad connections	132,000
Gatehouse and fence	12,000
Magazine	4,000
Married officers' quarters	129,000
Bachelor officers' quarters	135,000
Barracks for crew	400,000
Hospital	75,000
Administration building	75,000
Recreational	75,000
Cafeteria	27,000
Miscellaneous station equipment	100,000
Grading, ditches, etc	30,000

Total immediate cost without grounds \$5,000,000

SAN DIEGO, Cal.—Sam V. Weiner and Jos. E. Peterson, 4275 41st St., San Diego, submitted low bid of \$48,200 to the Public Works Office of the Eleventh Naval District December 10 and awarded contract for improving electrical system at the Naval Operating Base (Air Station), San Diego. Specification No. 6122. Work consists of furnishing and installing new concrete manholes; conduits, power, light, street lighting, telephone and fire-alarm cables; transformers, switchboards, etc., and the modification in part of existing manholes, conduits and wiring for complete reconstruction of underground electrical system. Other bids were: Newbery Elec. Corp., \$52,763; Moore Electric Co., \$53,956; Carl Helbron, \$54,780; Underground Const. Co., \$55,075; H. O. Bauerle, \$58,147; Capitol Electric Co., \$59,755; R. A. Bouligny, Inc., \$62,443; Globe Electric Works, \$64,114; A. C. Rice, \$64,567; H. H. Walker, \$68,272.

PHOENIX, Ariz.—Until January 6, 2 P. M., bids will be received by Jao. B. Brown, superintendent, Indian

Field Service, Phoenix, to furnish and deliver f. o. b. Phoenix or f. d. b. shipping point of bidder, 30,000 lb. f. 1 x10-in. random lengths No. 1 common, Douglas Fir lumber, S/S. Further information obtainable from above.

Plans Being Prepared.
REPAIR SHOP CO., Approx. \$200,000
MARE ISLAND, Cal. Navy Yard.
Two-story reinforced concrete submarine battery storage and repair shop building.
Owner—United States Government.
Architect—Construction Quartermaster, Mare Island.

MARE ISLAND, Cal.—B. Z. Walden, 828 Jones St., at \$1,044.95 awarded contract by Public Works Officer, Mare Island Navy Yard, for painting two buildings and coating the roofing of 14 buildings at the Mare Island Navy Yard Hospital. Surfaces to be painted and coated involve approximately 15,000 and 84,000 sq. ft., respectively. The Government will furnish material for roof coating.

LOS ANGELES, Cal.—Until 2 P. M. December 23, bids will be received by the U. S. Department of Commerce Division of Supplies, Washington, D. C., for the installation of heating facilities on the Los Angeles-San Diego airway. Work will consist of installing six 24-inch electric revolving beacons, mounted on 51-ft. galvanized steel towers. Prospective bidders are requested to refer to Proposal No. 22777.

SEATTLE, Wash.—Western Const. Co., 824 Seaboard Bldg., Seattle, at \$19,983 awarded contract by Bureau of Yards and Docks, Navy Department, Washington, D. C., under Spec. 6297 to erect boiler plant building.

SANTA ANA, Cal.—Following are prospective bidders on proposed post office to be erected at Santa Ana, bids for which will be opened in Washington, D. C., January 12, by the Supervising Architect:

Thermon Means, 611 E. First St., Santa Ana, Calif.

A. M. Lundberg, St. Louis.
Wilson-Bener Construction Co., 124 W. Elm St., Anaheim, Calif.

Wm. Rohrbacher, Santa Ana, Calif.
Additional prospective bidders will be published shortly.

HAWTHORNE, Nevada—Bureau of Yards and Docks, Navy Department, Washington, D. C., is preparing plans for a concrete reservoir to be constructed at Hawthorne, Nevada, in connection with the Naval Ammunition Plant, storage capacity 25,000,000-gals. Est. cost \$150,000. Details will be published when the plans are further advanced.

HALLS AND SOCIETY BUILDINGS

Plans Being Prepared.
REMODEL Cost, Approx. \$10,000
SANGER, Fresno Co., Cal.
Remodel present two-story lodge building.
Owner—Masonic Lodge (A. B. Olson in charge), Sanger
Architect—Swartz & Ryland, Brix Bldg., Fresno.

ALBANY, Alameda Co., Cal.—C. E. Morris, secretary of the Albany Y. M. C. A., announces tentative plans are being considered to finance erection of a modern Y. M. C. A. building to house the Albany unit of the association. Plans for the structure will probably be prepared by Architect W. H. Ratcliff Jr., Chamber of Commerce Bldg., Berkeley.

Bids Opened.
CLUB Cost, \$2,000,000
SAN FRANCISCO. Post and Mason Streets.

Twenty-six-story class A club building.
Owner—Olympic Club, premises.
Architect—John Bakewell, Arthur Brown, Jr., and John Bauer, associated, 251 Kearny St.
Following complete list of bids received on plumbing, heating and mechanical bids:

Plumbing	
F. W. Snook, 596 Clay St.	\$224,219
Herman Lawson	224,800
Turner Company	234,000
Alec Coleman	237,337
Scott Company	242,750
Gilley & McYoung	246,800
James McIntert	249,575
Frank J. Kilm	258,740
W. J. Forster Co.	262,700

Mechanical Equipment	
O'Mara & Stewart, 215 Clara Street	\$417,899
James A. Nelson	424,355
F. W. Snook	425,407
Herman Lawson	432,755
Turner Company	435,000
Scott Company	441,675
Gilley & McYoung	448,620
Atank Heat and Adv. Co.	486,000

Bids held under advisement.
As previously reported, following were the lowest bidders: General contract, K. E. Parker Co., 135 South Park, \$1,769,000; electrical work, H. S. Little Co., 85 Columbia Sq., \$153,375; steel, Pacific Coast Steel Co., 215 Market St., \$566,636; elevators, Otis Elevator Co., 1 Beach St., \$164,430.

Steel frame and concrete construction, brick and terra cotta trim, granite base, marble, hardwood finish, six passenger elevators, two freight elevators, 1 special elevator, elevators for garage, sidewalk elevators, steam heat and oil burning system, tile roofing.

Contract Awarded
CLUB HOUSE Cost, \$15,000
STOCKTON, San Joaquin Co., Cal.
Park St., bet. Madison and Commerce Sts.

One-story brick club house with tile roof (60x91 feet).

Owner—Knights of Pythias, Charter Oak Lodge No. 20.
Architect—Victor Galbraith, Elks Bldg., Stockton.

Contractor—T. E. Williamson, 1859 W. Park Ave., Stockton.
Steam heating plant, oil burning system, maple flooring, steel sash.

Plans To Be Prepared.
TEMPLE Cost, \$2,000,000
SAN FRANCISCO. Location Not Selected.

Class A Shrine Temple.
Owner—San Francisco Shriners (Isaac Temple).
Architect—Not Selected.
Wm. H. Woodfield is chairman of the building committee.

WILLOWS, Glenn Co., Cal.—Until January 13, 11 A. M., bids will be received by W. B. Sale, county clerk, to furnish and install:

(a) furniture;
(b) draperies;
(c) equipment;
in Orland Memorial Building. Certified check 10% required with bid. Spec. obtainable from clerk, Jens C. Petersen, 826 26th St., Sacramento, architect.

HOSPITALS

OROVILLE, Butte Co., Cal.—County Purchasing Agent Frank Doyle authorized by county supervisors to ask bids on an oil burning heating system to be installed at the county hospital at Thermalito. Specifications obtainable from above.

Bids Opened.
HOSPITAL Cost, \$114,000
STOCKTON, San Joaquin Co., Calif.
State Hospital grounds.
Two-story and part basement reinforced concrete hospital and two-story reinforced concrete industrial building.
Owner—State of California.
Architect—State Department of Public Works, Division of Architecture, Geo. B. McDougall, State Architect, Public Works Bldg., Sacramento.

Hospital building will be of reinforced concrete with tile and solid plaster partitions, wood roof construction and tile roof and a total floor area of 14,500 square feet.

The industrial building will be of concrete construction, wood and concrete second floor construction, steel roof construction and a total floor area of approximately 6150 sq. ft.

Following is a complete list of bids:

General Work	
Sorensen and Hagemark, 2652 Harrison St., S. F.	\$69,223
Minton Co., Mt. View	74,170
J. H. Johnson, San Francisco	75,337
Geo. J. Maurer, Oakland	75,463
J. F. Shepherd, Stockton	76,650
J. W. Cobby & Son, S. F.	76,695
H. L. Peterson, San Francisco	76,704
E. T. Lesure, Oakland	78,756
H. Mayson, Long Beach	79,365

Lindgren & Swinerton, Inc., San Francisco, 79,737
Geo. Swanstrom, Oakland, 80,594
David Nordstrom, Oakland, 86,725
P. L. Hansen, San Francisco, 93,300

Plumbing and Heating

J. C. Black, 721 W. Elm Street, Stockton	\$14,900
E. L. Gnekow, Stockton	17,093
Carpenter & Mendenhall, Sacramento	17,150
W. T. Gibson Co., Stockton	17,696
W. H. Smith, Long Beach	18,000
Scott Co., San Francisco	18,267
Hately & Hately, Sacramento	18,687
W. H. Picard, Oakland	18,981
Luppen & Hawley, Sacramento	19,750
Carl T. Doell, Oakland	19,938
Henry Ernst & Son, S. F.	28,585

Electrical Work

Collins Electric Co., 705 E. Market St., Stockton	\$3,881
Hild Elec. & Mfg. Co., Stockton	4,082
W. H. Smith, Long Beach	4,250
E. L. Gnekow, Stockton	4,285
Newberry Elec. Corp., L. A.	4,841
Eddy Elec. Co., Stockton	4,845
Luppen & Hawley, Sacramento	5,228

Bids held under advisement.

Plans Being Figured—Bids Close Jan. 21, 2:30 P. M.

ADDITIONS Cost, \$379,000
SAN FRANCISCO. Potrero Ave. bet. 20th and 23rd Sts. (San Francisco Hospital).

Class A additions on roof of four ward buildings (brick walls, tile roof).
Owner—City and County of San Francisco.

Architect—Alfred I. Coffey and Martin J. Rist, associated, Thelan Bldg.

Segregated beds are wanted for:
(1) General contract \$300,000
(2) Heating 20,000
(3) Plumbing 35,000
(4) Electric Work 24,000

Deposit of \$25 required for general contract plans and \$15 for each set under other segregations. Plans obtainable from Bureau of Architecture, 2nd floor, City Hall. Certified check 10% payable to Clerk of the Board of Supervisors required with bid.

Plans Being Prepared.
BUILDINGS Cost each, \$10,000
OAKLAND, Alameda Co., Calif. Del Valle Tuberculosis Farm.
Two Preventorium Buildings.
Owner—County of Alameda
Architect—H. H. Meyers, Kohl Bldg., San Francisco.

One building will be an open-air pavilion. Bids will be taken in three or four weeks.

Plans Being Figured—Bids Close Jan. 19, 11 A. M.

ADDITION Cost, \$—
SAN JOSE, Santa Clara County, Cal.
County Hospital.

Two-story frame and stucco addition to health cottage.

Owner—County of Santa Clara.
Architect—Binder & Curtis, 35 W San Carlos St., San Jose.

Certified check 10% payable to H. A. Pfister, county clerk, required with bid. Plans on file in office of clerk.

Contract Awarded.

LABORATORY Cost Approx. \$10,000
MONTEREY, Monterey Co., Cal.
Monterey Hospital.

One-story frame and stucco laboratory.

Owner—Monterey Hospital, Monterey.

Architect—W. O. Raiguel, Del Monte Hotel, Monterey.

Contractor—M. J. Murphy, Inc., Monterey.

Plans Being Figured—Bids Close Jan. 19, 11 A. M.

EQUIPMENT Cost, \$—
SAN JOSE, Santa Clara Co., Cal.
Infirmary Road.

Mechanical equipment for Service Building and underground piping system for Santa Clara County Hospital.

Owner—County of Santa Clara, Henry A. Pfister, County Clerk.

Architect—Binder & Curtis, 35 W San Carlos St., San Jose.

Specifications for this work are on file in the office of the clerk and are obtainable from the architects.

Planned.

ADDITION Cost, \$—
STOCKTON, San Joaquin Co., Cal.
Addition to hospital.

Owner—Dominican Convent, San Rafael.

Architect—Not Selected.
More definite information will be given shortly.

December 16, 1936

Bids Opened.
SERVICE BLDG. Cost, \$100,000
SAN JOSE, Santa Clara Co., Cal.

Two-story reinforced concrete service building.

Owner—County of Santa Clara.
Architect—Binder & Curtis, 35 W San Carlos St., San Jose.

Following is a complete list of bids:

J. D. Carlsen, 1321 Sierra, San Jose	\$ 97,280
F. T. Edmans, San Jose	102,660
R. O. Summers, San Jose	104,590
Thermotite Const. Co., San Jose	105,447
W. J. Ochs, San Jose	105,680
Wm. Meyers, San Jose	105,680
The Minton Co., Mt. View	106,590
C. N. Swensen, San Jose	107,932
Neves & Hart, San Jose	112,896
L. Dioguardi, Redwood City	114,000
Megna & Newell, San Jose	114,533
B. J. Byron, San Jose	115,887

Bids held under advisement.

SAN FRANCISCO.—Until December 29, 3 P. M., under Proposal No. 671, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish 2,500 lbs. Hair, Grey Drawings for San Francisco Hospital. Specifications obtainable from above.

PATTON, San Bernardino Co., Cal.
—Following is a complete list of bids received by State Department of Public Works, Division of Architecture, Public Works Bldg., Sacramento, for roofing and sheet metal work at the State Hospital at Patton.

Roy Johnson, Fomona	\$8036
Orange Belt El Rey Roofing Co., Riverside	\$175

C. R. Lomas Roofing Co., San Bernardino	8747
J. W. Lytle, Pasadena	8830
R. Y. Kennedy, San Bernardino	9063
L. W. Blinn Lumber Co., L. A.	9272
Bert D. Harrington Roofing Co., San Bernardino	9827

Bid of San Bernardino Roofing Co. at \$7920 not considered, as they did not bid on complete job.

HOTELS

Completing Preliminary Plans.
HOTEL Cost, \$3,500,000
PORTLAND, Oregon. Thirteenth and Fourteenth; Holladay and Mun-

nomah Sts.

Twenty-two-story Class A steel frame stone or terra cotta hotel (500 rooms).

Owner—Ralph B. Lloyd, Bank of Italy Bldg., Los Angeles.

Architect—Morgan, Walls & Clements Van Nuys Bldg., Los Angeles.

Steel & Excavation Cont. Awarded.
HOTEL Cost, \$250,000
SAN FRANCISCO. Pine St. between

Powell & Stockton Sts.

Sixteen-story steel frame and concrete hotel.

Owner—Shell Drake Hotel Co.

Architect—H. C. Baumann, 251 Kearny Street.

...Structural Steel—Judson Pacific Co., 609 Mission St.

Excavation—L. Devencenzl, 148 Blake Street.

ICE AND COLD STORAGE PLANTS

Contract Awarded.
ALTERATIONS Cost, \$25,000
FRESNO, Fresno Co., Cal. P and

Mono Streets.

Alterations and additions to cold storage plant.

Owner—Fresno Consumers Ice Co., Premises.

Plans by W. W. Williamson.

Contractor—H. W. Williamson, 320 Market St., San Francisco.

POWER PLANTS

GRIDLEY, Butte Co., Cal.—Bids will be asked at once by the city council to furnish and install a new stand-by plant to replace the present steam plant in connection with the municipal light and water plant. Further mention will be made of this project.

Bids Wanted—To Be Opened Jan. 2, 11 A. M.

POWER HOUSE Cost, \$40,000
SAN FRANCISCO. Third Ave. and Parnassus Street.

One-story steel frame and concrete power house.

Owner—University of California.

Architect—Wm. C. Hays, Crocker 1st Nat'l. Bank Bldg., San Francisco.

Plans obtainable from Cashier's window, California Hall, University of California, on deposit of \$50, returnable.

See call for bids under official proposal section in this issue.

EAGLEVILLE, Modoc Co., Calif.—Upon petition of the Eagleville Farm Board, the California Public Service Corp. contemplates extension of its electric lines into this section. The company has spent approximately \$250,000 in development work in central Modoc County and recently completed a new high tension power line from Alturas to Cedarville and central Surprise Valley.

SEATTLE, Wash.—Bids will be asked shortly by Board of Public Works on copper conductor wire for the high tension power line from Diablo powerhouse to the city of Seattle, estimated to cost approximately \$100,000. The wire will total about 740 miles in length and will comprise two three-wire circuits. Bids for the construction of the steel towers will be called before early next spring. This job will cost approximately \$1,700,000, bringing the total cost of the high tension line to about \$2,500,000. If possible the contract to roll and fabricate the steel for the towers will be let to Seattle plants, the city council believing that local firms can do the work.

Contract for the superstructure of the Diablo powerhouse remains to be let and it is estimated that this work will cost between \$50,000 and \$750,000. Work on the foundation for this structure, contract for which was recently let to the Ward Construction Co. of Tacoma, for \$279,847, will be started at once.

SEATTLE, Wash.—Ward Construction Co., Tacoma at \$279,847.50 awarded contract by Board of Public W'ks to construct power house in connection with Diablo Power Project.

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LOS ANGELES, Cal.—Until 2 P. M., Dec. 29, bids will be received by the county supervisors for the construction of a telephone line for the flood control department. Plans were prepared by E. C. Eaton, chief engineer. The bid form follows:

PROPOSAL NO. 1

- All lumber to be delivered unloaded at district's warehouse, 732 S. Eastlake Ave., Los Angeles:
- (1) 212 pcs. 4x6-in. by 14-ft. R. W. No. 1 common (5936 B. M.);
 - (2) 70 pcs. 4x6-in. by 16-ft. R. W. No. 1 common (2240 R. M.);
 - (3) 35 gal. Associated grade creosote in 5-gal. containers;
 - (4) 2 gals. denatured alcohol.

PROPOSAL NO. 2

- Supply miscellaneous electrical supplies to be used in construction of a telephone line. All materials to be delivered unloaded at district's warehouse, 732 S. Eastlake Ave.:
- (1) 176 std. locust pins, 1½x9x1-in.;
 - (2) 176 Hemingray Pony insulators No. 9 or equal;
 - (3) 92 32-in. Hubbard flat cross-arm braces, hot galv. or equal;
 - (4) 548 Hubbard hot galv. 5/16x2½-in. lag screws or equal;
 - (5) 144 Pierce insulated clevises No. 1342 or equal;
 - (6) 705 Thomas dry process porcelain guy strain insulators, No. 502 or equal;
 - (7) 372 Hubbard square washers, hot galv., 4x4x3-in. or equal;
 - (8) 458 Hubbard round washers, hot galv., No. 7806 or equal;
 - (9) 45 D. P. cross-arms, 3¼x4¼-in. by 6-ft., stained green, 4 holes 117/32-in. dia., similar to Gray-bar Electric Light arm No. 4;
 - (10) 286 Hubbard machine bolts, hot galv., ¾x3-in. or equal;
 - (11) 186 Hubbard machine bolts, hot galv., ¾x6-in. or equal;
 - (12) 90 Hubbard carriage bolts, hot galv., ¾x5½-in. or equal;
 - (13) 8920 ft. No. 10 iron weatherproof wire;
 - (14) 34 ½-in. coils, No. 6 BB galv. iron telephone wire;
 - (15) 159 ½-in. coils, No. 9 BB galv. iron telephone wire;

PROPOSAL NO. 3

- Supply dynamite and blasting caps to be used in the construction of a telephone line. Delivery to be unloaded at district's magazine in San Gabriel Canyon:
- (1) 520 lbs. 40% Trojan dynamite or equal;
 - (2) 200 No. 8 electric blasting caps, each cap to have 6-ft. leads.

ALASKA — Harry Chandler (Los Angeles Times), 100 North Broadway, Los Angeles, has filed application with the Federal Power Commission for permit for a hydro-electric project, pulp and paper mill in the vicinity of Juneau. Total estimated cost \$15,000,000.

Preparing Working Drawings. **LIGHT PLANT** Cost, \$50,000 PASADENA, Los Angeles Co., Cal. Glenarm St. near Fair Oak Ave. Reinforced concrete municipal light plant (superstructure) (108x150 feet). Owner—City of Pasadena Architect—Bennett & Haskell, First Trust Bldg., Pasadena.

SAN FRANCISCO—Until December 22, 10 A. M., under Schedule No. 928-31-154, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver 147,500 ft. copper wire, rubber covered weatherproof; single conductor, as follows:

- 1200 ft. double braid, solid, #6 gauge, 162 mills. dia.
- 27,000 ft. double braid, solid, #10 gauge, 102 mills. dia.

- 3000 ft. double braid, solid, #12 gauge 81 mills. dia.
 - 116,000 ft. double braid, solid, #14, gauge, 64 mills. dia.
 - 300 ft. double braid, stranded, #8 gauge.
 - 12,500 ft. copper with, weatherproof, single solid conductor, for outside construction work, as follows:
 - 3500 ft. double braid, #6, 162 mills. dia.
 - 9000 ft. triple braid, #10 gauge, 102 mills. dia.
- Further information obtainable from above.

Planned. **SUB-STATION** Cost, \$100,000 COSTA MESA, Orange Co., Cal. Brick electric sub-station. Owner—Southern California Edison Co., Third and Broadway, Los Angeles. Architect—Eng. Dept. of Owner.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

MERCED, Merced Co., Cal.—Clyde D. Jones at \$550 awarded contract by county supervisors to remodel Justice Court building at Los Banos. Angle & Sons at \$1228 awarded contract to remodel Justice Court building at Dos Palos.

Plans prepared by W. E. Bedesen, engineer, Shaffer Bldg., Merced.

Plans To Be Prepared. **ADDITION** Cost, \$14,000 ROSEVILLE, Placer Co., Cal. One-story and basement concrete addition to city hall.

Owner—City of Roseville, F. R. Chilton, City Clerk. Architect—Not Given. The addition is to house the hall of records, council room, city engineer's department, city clerk, and jail.

Plans Being Figured—Bids Close Dec. 23. **FIRE HOUSE** Cost, \$7200 CORTE MADERA, Marin Co., Cal. NE First and Willows Sts. One-story frame and stucco fire house with tile roof (47x61 ft.) Spanish type (heating plant). Owner—Corte Madera Fire Dept., Inc. Corte Madera. Plans by J. C. Oglesby, Freitas Bldg., San Rafael.

SAN RAFAEL, Marin Co., Cal.—R. E. Oliver, San Rafael, at \$593 awarded contract by County Purchasing Agent Frank L. Brown to paint the courthouse annex and garage. Complete list of bids follows: R. E. Oliver, \$593; J. T. Neale, \$624; Marin Furniture Co., \$642.10; Walk Bros., \$655; P. M. Ambrose, \$676; Sam G. Jewell.

\$685; F. H. Sands, \$749; E. Holm, \$760 M. E. Sousa, \$789; Lake and Hathaway, \$800; Martin Bros., \$873; N. Compagno, \$990.

Contract Awarded. **ADDITION** Cont. price, \$6826 SALINAS, Monterey Co., Cal. Addition to city jail and certain alterations in present jail cells. Owner—City of Salinas, M. H. Keef, city clerk. Architect—Butner & Stranahan, Glibb Bldg., Salinas. Contractor—W. E. Green, Salinas. Following is a complete list of bids: W. E. Green, Salinas, \$6,826 F. C. Carlsen, Salinas, 7,808 M. J. Murphy, Monterey, 7,879 H. H. Larsen Co., S. F., 7,973 A. P. McElheran, Salinas, 8,000 S. Trondhjem, Salinas, 8,092 H. D. Coon, Carmel, 8,590

RESIDENCE

Plans Being Prepared. **ALTERATIONS** Cost, \$10,000 SAN FRANCISCO. 3249 Pacific Ave. Alterations and additions to two-story frame and stucco residence. Owner—Lalphy Lyon, premises. Architect—Warren Perry, 260 California Street. Bids will be taken in 30 days.

Plans Being Prepared. **RESIDENCE** Cost, \$— SAN FRANCISCO. Washington St. Two-story and basement frame and stucco residence. Owner—Dr. E. H. Howell, 909 Hyde Street. Architect—Harris Allen, 1924 Broadway, Oakland. Bids will be taken about Feb. 1, 1931.

Bids Opened—Held Under Advertisment. **RESIDENCE** Cost, \$16,000 SAN JOSE, Santa Clara Co., Cal. Two-story and basement frame and stucco residence (5 rooms and 3 baths). Owner—Dr. E. F. Porter, Security Bank Bldg. San Jose. Architect—Wolfe and Higgins, Realty Bldg., San Jose.

Plans Being Figured. **RESIDENCE** Cost Approx. \$20,000 SANTA CRUZ, Santa Cruz Co., Cal. Two-story and basement frame and stucco residence. Owner—Dr. Percy Phillips, 286 Walnut St., Santa Cruz. Architect—W. H. Weeks, 111 Sutter St., San Francisco.

Contract Awarded. **RESIDENCE** Cost, \$10,000 PALO ALTO, Santa Clara Co., Cal. No. 1811 Fulton Street. Two-story frame and stucco residence. Owner—Mrs. Mary Morgan. Architect—Not Given. Contractor—H. Dalmett, 2350 South Court, Palo Alto.

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Contract Awarded.
RESIDENCE Cost, \$12,500
OAKLAND, Alameda Co., Cal. Lake-shore Highlands.
Two-story and basement frame and stucco residence (11 rooms and 3 baths).
Owner—A. R. Lapham, 947 Hillcroft circle, Oakland.
Plans by Irwin Johnson, 2215 Seventh Ave., Oakland.
Contractor—A. H. Lapham, % Owner.

Preparing Working Drawings.
RESIDENCE Cost, \$—
SAN FRANCISCO. Broadway St. nr. Baker St.
Two-story and basement frame and stucco residence.
Owner—Dr. A. Lincoln Brown, Medical-Dental Bldg.
Architect—Bakewell and Weihe, 251 Kearny Street.

Contracts Awarded.
COTTAGE Cost, \$—
IONE, Amador Co., Calif. Preston School of Industry.
Two-story and part basement brick and frame superintendent's cottage (10 rooms).
Owner—State of California.
Architect—State Department of Public Works, Division of Architecture, Public Works Bldg., Sacramento.

General Work
Blitrite Const. Co., 370 Ocean View Ave., Berkeley.....\$13,875
Electric Work
Luppin & Hawley, 3126 J St., Sacramento.....\$1,250
Plumbing and Heating
Scott Co., 243 Minna St., S. F.....\$5,365

Contract Awarded.
RESIDENCE Cost, \$15,000
BERKELEY, Alameda Co., Cal. 1509 La Loma Avenue.
Two-story and basement frame and stucco residence.
Owner—E. J. Krowell, 1928 Los Angeles Ave., Berkeley.
Architect—Masten & Hurd, 210 Post St., San Francisco.
Contractor—H. Papenhausen, 595 Victoria St., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$40,000
HILLSBOROUGH, San Mateo Co., Cal.
Two-story and basement frame and brick veneer residence (14 rooms, 5 baths).
Owner—Chas. Cherry, 111 Sutter St., San Francisco.
Architect—J. K. Ballantine Jr., 137 Harlan St., San Francisco.
Contractor—D. B. Gladstone, 557 Market St., San Francisco.

Plans Being Completed.
RESIDENCE Cost, \$15,000
MORISTO, Stanislaus Co., Cal.
Two-story frame and stucco residence (9 rooms).
Owner—D. P. Boothe, 114 11th Street, Modesto.
Architect—Warren Perry, 260 California St., San Francisco.
Bids will be taken in two weeks.

Plans Being Prepared.
RESIDENCE Cost, \$10,000
KING CITY, Monterey Co., Cal.
Two-story and basement frame and stucco residence (7 rooms).
Owner—L. Hables, King City.
Architect—Miller & Warnecke, Financial Center Bldg., Oakland.
Bids will be taken in two or three weeks.

Plans Being Prepared.
BUNGALOWS Cost, \$—
CAMPBELL, Santa Clara Co., Cal. Page Subdivision.
Twelve one-story frame bungalows.
Owner—Campbell Lumber Co. (Herold Morton, Manager), Campbell.

Plans by Owner.
Structures will contain five and six rooms and will be equipped with gas furnaces and electric refrigerators. Construction on two homes will be started at once and the remaining ten to be undertaken upon completion of these.

Sub-Bids Being Taken.
COTTAGE Cost, \$—
IONE, Amador Co., Calif. Preston School of Industry.
Two-story and part basement brick and frame superintendent's cottage (10 rooms).
Owner—State of California.
Architect—State Department of Public Works, Division of Architecture, Public Works Bldg., Sacramento.

General Work
Elitrite Const. Co., 1203 Walnut St., Berkeley.....\$13,875
Electric Work
Luppin & Hawley, 3126 J St., Sacramento.....\$1,250
Plumbing and Heating
Scott Co., 243 Minna St., S. F.....\$5,365

SCHOOLS

Preparing Plans.
SCHOOL Cost, \$100,000
ALHAMBRA, Los Angeles Co., Cal. Commonwealth Avenue.
Two-story and basement masonry school (8 classrooms, library, auditorium, etc.)
Owner—Alhambra City School District
Architect—Richard C. Farrell, 11 S. Second St., Alhambra.

Planned.
DORMITORY Cost, \$150,000
PASADENA, Los Angeles Co., Cal. Reinforced concrete dormitory with tile roof.
Owner—California Institute of Technology.
Architect—Gordon B. Kaufmann, Union Bank Bldg., Los Angeles.

Contract Awarded.
MEMORIAL BLDG. Cost, \$250,000
BERKELEY, Alameda Co., Cal. Campus of University of California.
Two-story class A concrete Esheleman Memorial Bldg. (Student publishing building).
Owner—Regents of the University of California, Berkeley.
Architect—G. W. Kelham, 315 Montgomery St., San Francisco.

General Work
J. J. Grodem & Co., 1028 San Antonio, Alameda.....\$116,995
Heating, Plumbing and Ventilating
Electrical Work
The Turner Co., 329 Tehama St. San Francisco.....\$22,035

Commissioned To Prepare Plans.
ADDITIONS Cost not determined
SAN FRANCISCO. Lowell and Morse. Additions to Longfellow School.
Owner—City and County of San Francisco, S. J. Hester, secretary, Board of Public Works.
Architect—F. H. Meyer, 742 Market Street.

Date Of Opening Bids Postponed.
SCHOOL Cost approx. \$400,000
OAKLAND, Alameda Co., Cal. 45th Ave. and Foothill Blvd. (Preston High School Site).
Three-story and basement steel frame and concrete high school with tile roof.
Owner—City of Oakland School Dist.
Architect—Charles W. McCall, 1404 Franklin St., Oakland.
Date for opening has not been definitely set.

Commissioned To Prepare Plans.
SCHOOL Cost, \$30,000
YUBA CITY, Sutter Co., Cal.

Two-story class C brick elementary school.
Owner—Yuba City Elementary School District.
Plans by Builder.
Contractor—Davis-Pearce Co., Grant and Weber Sts., Stockton.

Plans Complete.
SCHOOL Cost, \$150,000
LOS ANGELES, Calif. 32nd Street School site.
Two-story class B brick and concrete school (24 units; 118x262-ft.)
Owner—City of Los Angeles School District.
Architect—A. S. Nibecker, Jr., Los Angeles.

PACIFIC GROVE, Monterey Co., Cal.—Following is a complete list of the bids received by Pacific Grove High School District to furnish and deliver opera chairs in auditorium at high school.
(a) 186 chairs, each; (b) 776 chairs, each.
Ink Ribbon Co., 635 Howard St., San Francisco, (a) \$4.07; (b) \$6.09; \$5,482.86.

F. E. Turner, Stockton (a) \$4.11; (b) \$6.21; \$5,583.42.
H. S. Crocker, San Francisco, (a) \$4.13; (b) \$6.27; \$5,633.70.
Heywood Wakefield Co., San Francisco (a) \$4.46; (b) \$6.21; \$4,648.52.
C. Corley (a) \$4.10; (b) \$6.52; \$5,822.12.
C. F. Weber & Co., San Francisco, (a) \$4.70; (b) \$6.50; \$5,980.28.
Bids held under advisement.

Commissioned To Prepare Plans.
SCHOOL Cost, \$135,000
SAN FRANCISCO. Connecticut Street bet. 19th and 20th Sts.
Matt I. Sullivan Elementary School.
Owner—City and County of San Francisco, S. J. Hester, secretary, Board of Public Works.
Architect—G. A. Applegarth, Claus Spreckels Bldg.

This structure will contain 11 standard classrooms, 1 kindergarten, 1 assembly hall and lunch room with kitchen, teachers' office, clinic and waiting room, storage rooms, two lavatories, etc.
(4161) 15

BERKELEY, Alameda Co., Cal.—Worley & Co., 39 Natoma St., San Francisco, at \$1256.10 submitted lowest bid to Board of Education, 2225 Milvia St., to furnish and install steel lockers in Burbank Junior High School in south side of Addison St., bet. Browning and Curtis Sts.

Following is complete list of bids received:
Worley & Co., San Francisco.....\$1256
Lyon Metal Products Co., S. F.....1394
Berger Mfg. Co., S. F.....1403
Arthur Meyn Co., S. F.....1574
Bids held under advisement.

Plans Being Figured.
SCHOOL Cost, \$650,000
SANTA BARBARA, Calif.
Two-story reinforced concrete school building (terra cotta, tile roof).
Owner—Santa Barbara Union High School District.
Architect—W. H. Weeks, 111 Sutter St., San Francisco.

There will be an administration and classroom building, gymnasium and a shop building; reinforced concrete construction with terra cotta tile roofing.

SAN FRANCISCO—Until December 29, 3 P. M., under Proposal No. 668, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish and install stage fittings and draperies for the Presidio Junior High School. Specifications and further information obtainable from above office.

BERKELEY, Alameda Co., Cal.—Pacific Heating & Ventilating Co., 1451 Stevenson St., San Francisco, at \$2,230 submitted lowest bid to Board of Education, 2325 Milvia St., to furnish and install heating equipment in Franklin School in San Pablo Ave. between Virginia and Francisco Sts.

Following is a complete list of bids: Pacific Heating & Vent. Co., \$2,230
Geo. Schuster, Oakland, \$2,250
O'Mara & Stewart, S. F., \$2,315
Schreier Bros., Oakland, \$2,369
W. H. Plead, Oakland, \$2,394
Carl T. Doell, Oakland, \$2,481
Geo. C. Bell, Oakland, \$2,497

Bids held under advisement.

Preparing Sketches.
ACADEMY Cost, \$—
WESTWOOD, Los Angeles Co., Cal. Four-story masonry military academy with stucco exterior and tile roof.
Owner—St. John's Military Academy, Westwood.
Architect—Edward Eames, 353 Sacramento St., San Francisco.

SANTA BARBARA, Cal.—Architect Floyd E. Brewster, Mission Canyon, Santa Barbara, reports the following contractors have obtained plans for the purpose of submitting bids for the erection of a new school building on the Jefferson School site at Santa Barbara:

General—Christ Thoren, 5615 W. 4th St., Los Angeles; Bakker & Robinson, 732 D St., San Bernardino; Johnson & Hansen, 64 N. Fir St., Ventura; J. F. Kohler, 832 S. Rimpau, Los Angeles; W. L. Snook, 21 E. De la Guerra St., Santa Barbara; J. P. Sullivan, 2127 Hollister Ave., Santa Barbara; Cicero & Adrian, 219 L. A. Arcade Bldg., Santa Barbara; J. J. Munneman, 1334 Anacapa St., Santa Barbara.

Plumbing—Hickman Bros., 471 8th San Pedro; Sweeney & Sons, 34 W. Cota St., Santa Barbara; Kenneth Fraser, 1452 Lake St., Pasadena.

Heating and Ventilating—Hickman Bros., 471 8th St., San Pedro; Ott Hardware Co., 727 State St., Santa Barbara; Kenneth Fraser, 1452 N. Lake St., Pasadena.

Painting—Pohl-Brown Co., Inc., 793 E. 17th St., Los Angeles; Arenz-Warren Co., Inc., 2121 W. Pico St., Los Angeles; Pasadena Decorating Co., Pasadena.

Bids will be received until 3:00 P. M., December 29th. The building will be two stories, reinforced concrete construction, and will have classrooms and kindergarten departments, universal windows, vacuum steam heating, ornamental iron, fire escapes, tile and marble work, cement and wood floors, etc. Cost is estimated at \$160,000. Plans were prepared by Architect Floyd E. Brewster, Mission Canyon, Santa Barbara, and Architects John C. Austin and Frederic M. Ashley, Chamber of Commerce Bldg., Los Angeles, associates.

Plans Being Completed.
GYMNASIUM, ETC. Cost, \$—
MONTEREY, Monterey Co., Cal. One-story reinforced concrete academic building and one-story reinforced concrete gymnasium with tile roof.
Owner—Monterey Union High School District.
Architect—Swaritz & Ryland, Spaulding Bldg., Monterey.

Bids will be taken in two or three weeks.

OAKLAND, Cal.—Until December 30, 4:15 P. M., bids will be received by John W. Edgemond, secretary, Board of Education, 104 Administration Bldg., 1025 Second Ave., to construct Maxwell Park School retaining wall, steps

and grading at northeast corner of Fleming and Monteleone Aves. Certified check 10% payable to Board of Education required with bid. Plans obtainable from Superintendent of Buildings, 1025 Second Ave., on deposit of \$10, returnable. Further information obtainable from secretary.

Sub-Contracts Awarded.
ADDITION Cost, Price, \$26,830
RICHMOND, Contra Costa Co., Cal. Forty-first St., bet. Roosevelt and Clinton Avenues.
Six-room addition to Woodrow Wilson School (brick construction, slate roof).
Owner—Richmond School District, W. T. Helms, Clerk.
Architect—J. T. Nabbett, 466 31st St., Richmond.

Mechanical Engrs.—Leland & Haley, 58 Sutter St., San Francisco.
Contractor—F. M. Sanford, 302 Alameda Ave., Richmond.
Brick Work—James Walker, Builders' Exchange, Richmond.
Plumbing—R. W. Simmons, 703 Nevlin Ave., Richmond.
Electrical Work—V. G. Electric Co., 1314 Macdonald Ave., Richmond.
Lumber and Mill Work—Tilden Lumber Co., 1519 Nevlin Ave., Richmond.

Roofing—Mastcraft Tile & Roofing Co., 1 20th St., Richmond.
Concrete Materials—E. H. Higgins Co., 2 Sixth St., Richmond.
Structural Steel—Herrick Iron Works, 18th and Campbell Sts., Oakland.
Window Hardware—Universal Window Co., 1916 Broadway, Oakland.

SAN FRANCISCO—Until December 29, 3 P. M., under Proposal No. 669, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish Neostyle and Mimeograph stencils for school Department. Specifications obtainable from above.

STOCKTON, San Joaquin Co., Cal.—Until December 22, 7:30 P. M., bids will be received by Mrs. L. C. Weaver, clerk, August School District, to furnish four floor type and seven central type Fraser furnaces in school. Spec. obtainable by addressing clerk at Rt. 1, Box 503A, Stockton.

SANTA CRUZ, Santa Cruz Co., Cal. Max Braverman, Santa Cruz, at \$500 awarded contract by Board of Education to purchase the old Laurel school building, the annex and masonry arts building and the Leonard House at the Bay View School. Other bids were: H. R. Lord, \$160; Jas. Young, \$51, for Leonard House only.

MARTINEZ, Contra Costa Co., Cal.—Until December 26, 8 P. M., bids will be received by J. J. Bruning, clerk, Oak Grove School District, to furnish and install all burning steam heating plant in school. Certified check 10% payable to clerk required with bid. Plans obtainable from clerk.

SAN FRANCISCO—Board of Public Works rejects bids to furnish, fabricate and deliver structural steel for the proposed James Lick Junior High School, and new bids will be considered January 7, 2:30 P. M. The contract for the erection of the steel, however, has been awarded to J. Gerick and Co., 74 New Montgomery St., at \$2,568. This contract was awarded on Proposition No. 3.

Under the previous call for bids Minneapolis-Moline Power Implement Co., was low at (a) \$9,920; (b) \$7,174 to furnish, fabricate and deliver, with Dyer Bros. second low at \$10,550.

Plans are obtainable from the Bureau of Architecture, 2nd floor, City Hall, on deposit of \$25, returnable.

BERKELEY, Alameda Co., Cal.—Pacific Mfg. Co., Monadnock Bldg., San Francisco, at \$5,070.90 submitted lowest bid to Regents of the University of California for furnishing and installing laboratory equipment and furniture in the Agricultural Hall and Hilgard Hall, on the campus of the University of California.
Following is a complete list of bids: Pacific Mfg. Co., San Francisco, \$5,070.90; 60 days.
Home Mfg. Co., San Francisco, \$5,253.35; 60 days.
C. F. Weber & Co., San Francisco, \$5,336.75; 75 days.
Anderson School Equip. Co., \$6,377.12; 120 days.

Bids held under advisement.

BANKS, STORES & OFFICES

Preparing Working Drawings.
ALTERATIONS Cost, \$25,000
SACRAMENTO, Sacramento Co., Cal. Ninth St. near K St.
Alterations and additions to one-story and basement brick store and bank.
Owner—Peoples Finance & Thrift Co., 1005 8th St., Sacramento.
Architect—Charles Deann, California State Life Bldg., Sacramento.
Bids will be taken in 30 days.

Bids In—Under Advisement.
STORE Cost, \$35,000
SALINAS, Monterey Co., Cal. Main Street.
One-story and mezzanine floor reinforced department store.
Owner—Porter & Irvine, 210 Main St., Salinas.
Architect—M. W. Morrison, 601 42nd Ave., San Francisco.

Contract Awarded.
OFFICES Cost, \$30,000
SAN FRANCISCO, NE Army and Missouri Sts.
Two-story and basement frame and stucco offices.
Owner—Soule Steel Co., 1750 Army St. Plans by Eng. Dept. of Owner.
Contractor—Chas. Stockholm & Sons, Russ Bldg.
Grading—Sibley Grading & Teaming Co., 165 Landers St.

Preliminary Plans Being Prepared.
ALTERATIONS Cost Approx \$10,000
SAN FRANCISCO, No. 10 Third St. Stone fronts and fixtures.
Owner—Spreckels Estate.
Architect—G. A. Applegarth, Claus Spreckels Bldg., San Francisco.

Contract Awarded.
MARKET Cost, \$60,000
SACRAMENTO, Sacramento Co., Cal. SE Thirteenth and J Sts.
One-story frame and stucco drive-in market with tile roof.
Owner—Harry Ausfelder, 1500 15th St., Sacramento.
Plans by James T. Ransdall, 1424 35th St., Sacramento.
Contractor—James T. Ransdall, 1424 35th St., Sacramento
Will contain grocery, meat and vegetable market, delicatessen, bakery, restaurant, and confectionary store.

Working Drawings Being Prepared.
BANK Cost, \$60,000
SAN JOSE, Santa Clara Co., Cal. First Street.
Two-story steel and concrete bank (25x137½ feet).
Owner—Italian National Bldg. & Loan Association.
Architect—F. Eugene Barton, Crocker Bldg., San Francisco.

Will have terra cotta front, bronze grills, marble floors and counters, vault door, etc.
Bids will be taken after Jan. 1.

Sub-Contracts Awarded.
OFFICE Cost, \$—
SONORA, Tuolumne Co., Cal. Wash-
ington Street.
One-story frame, terra cotta and
stucco office and exchange build-
ing (40x60-ft.)
Owner—Pacific Telephone & Telegraph
Co., 110 New Montgomery St., San
Francisco.

Plans by Eng. Dept. of Owner.
Contractor—Neil & Wirtner, Turlock.
Masonry—Dan Bishop, Modesto.
Heating, Plumbing and Sheet Metal—
C. B. Hedman, Turlock.
Electrical Work—C. P. R. Electric
Shop, Turlock.
Mill Work—Union Planing Mill, Tay-
lor and Sutter Sts., Stockton.
Terra Cotta—N. Clark & Sons, 116
Natoma St., San Francisco.
Structural Steel—Schrader Iron W'ks,
1247 Harrison St., San Francisco.
Painting—Normand E. Smith, Sonora.

Plans Being Completed.
BANK Cost, \$—
MONTEREY, Monterey Co., Cal. Lo-
cation not selected.
One-story and mezzanine steel frame
and concrete bank.
Owner—Monterey County Trust and
Savings Bank.
Architect—H. H. Winner Co., 580
Market St., San Francisco.
Bids will be taken in about 1 week.

Plans Being Revised.
STORES Cost approx., \$75,000
OAKLAND, Alameda Co., Calif. SW
19th and Broadway.
Group of one-story steel frame and
terra cotta shops and stores.
Owner—Twentieth & Broadway Realty
Co., Oakland
Architect—A. J. Evers, 525 Market St.,
San Francisco.

Contract Awarded.
ALTERATIONS Cost, \$8,000
SAN FRANCISCO. 635 Folsom St.
Alterations for offices.
Owner—Railway Express Agency, Inc.
244 Wells Fargo Bldg.
Plans by J. H. Humphreys, 408 Wells
Fargo Bldg.
Contractor—Forrester Corneice Works
and James F. Smith, 271 Minna St.

Plans Completed—Construction To Be
Started Shortly.
ADDITION Total Cost Approx., \$50,000
VALLEJO, Solano Co., Cal. No. 418
Georgia Street.
One-story addition to present building.
Owner—F. W. Woolworth Co., Finan-
cial Center Bldg., San Francisco.
Architect—Eng. Dept. of Owner (A. J.
Maclure in charge).

A complete new front of granite
and copper, with three entrances, will
be constructed. A heating plant and
refrigerating equipment will be in-
stalled in a basement to be dug under
front portion of building.
Freight elevators will be installed
in both front and rear. Lunch counter
and fountain will be installed.
New fixtures of mahogany and light-
ing fixtures. New flooring will be laid
and new metal ceiling is to be built.

Contract Awarded.
OFFICES Cost, \$60,000
WATSONVILLE, Santa Cruz Co., Cal.
Main St. N Fifth St.
One- and two-story offices with tile
roof (reinforced concrete construc-
tion with cement plaster; 91x236
feet).
Owner—Coast Counties Gas & Elec-
tric Co., N. E. Paulsen, manager,
Watsonville.
Architect—Albert F. Roller, First Na-
tional Bank Bldg., San Francisco.
Contractor—Wm. Radtke, Gilroy.

Preparing Working Drawings.
BANK Cost, \$50,000
MONTEREY, Monterey Co., Cal. SE
Alvarado and Franklin Sts.

One-story and basement reinforced
concrete bank and store building
(2 stores).
Owner—B. F. Wright, Monterey.
Architect—W. H. Weeks, 111 Sutter
St., San Francisco.
Lessee—Bank of Italy and Palace
Drug Company.
Mr. H. A. Minton, Bank of Italy
Bldg., San Francisco, will prepare
plans for the interior bank fixtures,
etc.

Sub-Contracts Awarded.
CAFE Cost, \$60,000
SAN FRANCISCO, N Columbus Ave.
from Chestnut St. to Houston St.
Frame and concrete cafe.
Owner—Frank Martinelli, 3743 Scott
St., San Francisco.
Architect—Miller & Pfeuger, 580 Mar-
ket St., San Francisco.

Contractor—J. Martinelli, 1355 Fran-
cisco St., San Francisco.
Will contain dining room, 60x120 ft.,
large lobby, ladies' lounges, men's
smoking room, private dining rooms,
special illuminating features on in-
terior and exterior. The exterior is
to be faced with glazed tile with an
entrance of illuminated glass.
Masonry—Hock & Hoffmeyer, 666
Mission St., San Francisco.
Heating—Atlas Heating Co., 557 4th
St., San Francisco.

Plumbing—Frank Davison, 65 Chesley
St., San Francisco.
Electric—Alta Electric Co., Inc., 938
Howard St., San Francisco.
Mill Work—J. A. Hart Mill & Lum-
ber Co., Jerrold and Napoleon Sts.,
San Francisco.

Reinforcing Steel—W. C. Hauck &
Co., 280 San Bruno Ave., S. F.
Ornamental Iron—Wrought Iron
Shoppe, 1364 Pacific Ave., S. F.
Sheet Metal—Morrison & Co., 74 Du-
boce Ave., San Francisco.
Lumber—J. H. McCallum, 748 Bryant
St., San Francisco.
Rock, Etc.—John Cassaretto, 6th and
Channel Sts., San Francisco.

Construction Postponed.
OFFICES Cost, \$750,000
SACRAMENTO, Sacramento Co., Cal.
SW 7th and J Sts.
Eleven-story class A steel frame and
reinforced concrete office bldg.
Owner—Louis Lurie, 315 Montgomery
St., San Francisco.
Architect—O'Brien Bros. and W. D.
Peugh, 315 Montgomery St., San
Francisco.

Contract Awarded.
FILM EXCHANGE BLDGS.
Cost approx. \$100,000 each
SAN FRANCISCO. Hyde Street near
Eddy Street.
Two 2-story and basement reinforced
concrete film exchange buildings
Owner—Bell Bros., Mills Bldg.
Architect—O'Brien Bros. and W. D.
Peugh, 315 Montgomery St.
Contractor—Cahill Bros., 206 Sansome
Street.
Construction will start after Jan. 1.

Contract Awarded.
ADDITION Cost, \$25,000
SAN FRANCISCO, 468 Turk Street.
One-story concrete addition to build-
ing.
Owner—Bell Bros., Mills Bldg.
Architect—O'Brien Bros. and W. D.
Peugh, 315 Montgomery St.
Lessee—Hoover Sweeper Company, 628
Golden Gate Ave.
Contractor—Cahill Bros., 206 Sansome
Street.
Construction will be started im-
mediately after Jan. 1.

Contract Awarded.
ALTERATIONS Cost, \$30,000
SAN FRANCISCO, California Street
bet. Montgomery and Kearny.

Alter market for store and garage.
Owner—California Market Properties
Co., 738 Merchants' Exchange
Building.
Architect—G. W. Kelham, 315 Mont-
gomery St.
Contractor—Barrett & Hilp, 918 Har-
rison Street.

Preliminary Plans Being Prepared.
NEWSPAPER BLDG. Cost, \$15,000
SOUTH SAN FRANCISCO, San
Mateo Co. Grand Ave. near Maple.
One-story newspaper building (25x140
ft. (type of construction not de-
termined).
Owner—Peninsular Newspapers, Inc.,
Palo Alto.
Architect—John McCool, 381 Bush
St., San Francisco.
Will be known as "The Enterprise."

Plans To Be Prepared.
NEWSPAPER BLDG. Cost, \$—
PALO ALTO, Santa Clara Co., Cal.
Newspaper building.
Owner—Peninsular Newspapers, Inc.,
248 Hamilton St., Palo Alto.
Architect—John McCool, 381 Bush St.,
San Francisco.

Plans To Be Prepared.
NEWSPAPER BLDG. Cost, \$—
REDWOOD CITY, San Mateo Co., Cal.
Newspaper building.
Owner—Peninsular Newspapers, Inc.,
248 Hamilton St., Palo Alto.
Architect—John McCool, 381 Bush St.,
San Francisco.

THEATRES

Contract Awarded.
AMPHITHEATRE Cost, \$250,000
LOS ANGELES, Cal. Cahuenga and
Highland Aves.
Reinforced concrete amphitheatre (to
seat 1500).
Owner—Pilgrimage Play Association.
Architect—William Lee Woollett, Ar-
chitects Bldg., Los Angeles
Contractor—Wm. Simpson Constr. Co.,
Architects Bldg., Los Angeles.
Construction will start in one week.

Sub-Contracts Awarded.
THEATRE Cost, Approx. \$1,000,000
OAKLAND, Alameda Co., Cal. Broad-
way near Hobart Street.
Class A theatre building.
Owner—Publix Theatres, Inc.
Architect—Miller & Pfeuger, 580 Mar-
ket St., San Francisco.

Contractor—Geo. Wagner, 161 South
Park, San Francisco.
Concrete Piling—Raymond Concrete
Pile Co., Hunter-Dulin Bldg., San
Francisco.

Excavation—J. Catucci, 1212 18th Ave.,
Oakland.

Reinforcing Steel—Soule Steel Co.,
Rialto Bldg., San Francisco.
As previously reported, structural
steel awarded to Moore Drydock, Ft.
of Adeline St., Oakland; plumbing to
Scott Co., 113 10th St., Oakland;
sprinkler system to James Pinkerton,
927 Howard St., S. F.; electrical work
to Radeflinger Bros., 234 4th St., S. F.;
heating and ventilating to Carrair
Eng. Corp., Ltd., 748 E. Washington
St., Los Angeles.

RENO, Nevada.—T. & D. Jr. Enter-
prises, M. Naify, president, Golden
Gate Theatre Bldg., San Francisco,
plans to spend \$60,000 in refinishing
and redecorating the Grand and
Majestic Theatres. The work is to
start February 1.

Preparing Plans.
THEATRE Cost, \$—
SAN MATEO, San Mateo Co., Cal.
Class C theatre (to seat 1000).
Owner—Withheld.

Architect—S. Charles Lee, 2404 W. 7th St., Los Angeles.
Contractor—Leadley & Wlaeman, 207 2nd St., San Mateo.

WHARVES AND DOCKS

Reinforcing Steel Contract Awarded.
PIER Cont. price, \$345,597
SAN FRANCISCO, Pier No. 23.
Reinforced concrete pier (150x800-ft.; green piles, concrete jacket and reinforced concrete deck).
Owner—State Board of Harbor Commissioners.
Engineer—Frank White, Ferry Bldg.
Contractor—Healy-Tibbitts Const. Co., 64 Pine St.
Reinforcing Steel—Soule Steel Co., Rialto Bldg.

MISCELLANEOUS CONSTRUCTION

OAKLAND, Calif.—H. C. Leavitt Spray Painting Co. at \$1,008 awarded contract by county clerk for cleaning and painting of steel and iron and painting certain timber work on the Bay Island Farm Bridge in Brooklyn Township.

Following is a complete list of bids:
H. C. Leavitt Spray Painting
L. B. Morris \$1,311
Ed. Anderson 1,604
East Bay Painting Co. 1,665
H. Katterer 1,742
The McCrean Decorating Co. 1,790
Pacific Painting & Dec. Co. 2,048

Plans Completed.
SWIMMING POOL Cost, \$90,000
LOS ANGELES, Cal. No. 4600 Olympic Blvd.
One-story brick and concrete swimming pool and bleachers, 166x32 ft.) and 188x78 ft.) respectively
Owner—City of Los Angeles School District.
Architect—J. C. Austin & F. M. Ashley, Chamber of Commerce Bldg., Los Angeles.

GILROY, Santa Clara Co., Calif.—John Rikschein, 5th and Dowdy Sts., Gilroy, at \$407, awarded contract by city clerk to erect steel bell tower and remove present bell to new location at Fifth Street Firehouse.
Only other bid was submitted by Wm. Radtke, Gilroy, at \$495.

Plans To Be Prepared.
TRACK Cost, \$—
BERKELEY, Alameda Co., Cal. University Campus.
Track in the Stadium Bowl.
Owner—University of California.
Architect—Warren C. Perry, 260 California St., San Francisco.
Proposed project is in a very preliminary stage.

Contract Awarded.
STUDIO BLDG. Cost, \$100,000
BURBANK, Los Angeles Co., Cal.
One-story concrete and frame studio cutting and projection room bldg (87x130-ft.)
Owner—First National Studios, Burbank.
Plans by Eng. Dept. of Owner
Contractor—Macdonald & Driver, 111 W 7th St., Los Angeles.

SAN JOSE, Santa Clara Co., Cal.—As previously reported, bids will be received by Southern Pacific Railroad, 65 Market St., San Francisco, to construct Park Avenue Subway; to have overhead clearance of 15 ft., with roadway width of 30 ft., 6 ft. sidewalk on each side, length of barrel between approaches to be 100 feet.
Project involves:
15,600 cu. yds. excavation;
614 cu. yds. 1-2-4 reinf. concrete;
130 cu. yds. 1½-1½-1½ do;

42 cu. yds. reinf. conc. precast;
2,337 cu. yds. unreinf. concrete;
450 cu. yds. conc. paving, 1-½-3;
118,000 lbs. reinforcing steel.
Plans obtainable from Engineering Department, 65 Market St., San Francisco.

Plans Being Completed.
ALTERATIONS Cost, \$25,000
OAKLAND, Alameda Co., Cal. Telegraph Ave. near 29th St.
Alterations and additions to two-story and basement brick veneer residence for mortuary and chapel.
Owner—Grant D. Miller, 2365 E 14th St., Oakland.
Architect—Miller and Warnecke, Financial Center Bldg., Oakland.
Bids will be taken in a week or ten days.

DEATH VALLEY, Imperial Co., Cal.—C. A. MacNelliedge, 627 S. Carondelet St., Los Angeles, is completing working plans for a large swimming pool to be built at Death Valley for Death Valley Scotty; 300x30 feet in area, reinforced concrete construction, glass walls, tile work, filtering system, brass railings. There will be reinforced concrete tunnels under the pool. Cost, \$200,000. Work will be done by day labor under the supervision of Mr. MacNelliedge.

COMPTON, Los Angeles Co., Cal.—Architect Clarence N. Aldrich, Pacific Southwest Bank Bldg., Long Beach, is taking bids for the concrete work for the construction of a two-story, 4000-crypt addition to the Angelus Abbey Mausoleum on East Main St., Compton. The building will be 219x61 feet, reinforced concrete construction, plaster exterior, stone or terrazzo trim, composition roofing, marble, terrazzo and stone floors and walls, art glass, bronze work, ornamental iron, tile work, etc. Further information is not available from the architect.
Cost, \$500,000.

MISCELLANEOUS SUPPLIES AND MATERIALS

OAKLAND, Cal.—East Bay Municipal Utility District rejects bids Dec. 19 to furnish 50 tons of pig iron and new bids will be asked. John H. Kimball, secretary of district.

SAN FRANCISCO.—Until Jan. 5, 3 P. M., under Proposal No. 664, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish and deliver 35 radio receiving sets for the Department of Electricity. Specifications obtainable from above.

YREKA, Siskiyou Co., Cal.—Until January 6, 10 A. M., bids will be received by W. J. Neilon, county clerk, to furnish county buildings with fuel oil for the twelve-month period commencing Jan. 6, 1931; same to be commercial grade the gravity degrees A.P.I. 27 plus, or the degree required by the various heating plants; also such quantity, by car load lots, of Diesel Engine Oil 33 Degrees Gravity as may be required by the Horticulture Commissioner of Siskiyou County.

Prices to include delivery by car load lots f. o. b. Yreka. Further information obtainable from clerk.

SAN JOSE, Santa Clara Co., Cal.—Until January 5, 11 A. M., bids will be received by Henry A. Pfister, county clerk, for the sale of an electric vacuum building cleaner with motor and fuel equipment at the county hospital and no longer required for county purposes. Further information and authorization to inspect the equipment obtainable from clerk.

SACRAMENTO, Cal.—Until Dec. 26, 8 15 P. M., bids will be received by H. G. Denton, city clerk, to furnish gasoline for the year 1931 for use in automobiles and trucks of various city departments. Certified check 5% payable to City Controller required with bid. Specifications obtainable from clerk.

SACRAMENTO, Cal.—Until Dec. 26, 8 15 P. M., bids will be received by H. G. Denton, city clerk, to furnish lubricating oil for the year 1931 for use in automobiles and trucks of various city departments. Certified check 5% payable to City Controller required with bid. Specifications obtainable from clerk.

BUSINESS OPPORTUNITIES

Name and addresses of persons or firms concerned in these opportunities will be furnished on request to Business Opportunity Department, Larsen Advance Construction Reports, 547 Mission St., San Francisco, or phone GARfield 8744.

20693—Representation. Rockport, Mass. A perisian lady is anxious to represent some business firm in Paris during the French International Exposition in 1931.

20694—Electric Drilling Machines. Paris, France. Manufacturers of electric drills and stands desire to contact interested parties.

20695—Ceramic Works. San Francisco. Party inquires for list of local firms who might be interested in the sale of Norwegian Ceramic works.

20698—Steel Rakes and Forks. San Francisco. A Czechoslovakian manufacturer of steel rakes and forks wishes to get in touch with interested importers.

20702—Manufacturers' Representation. Stuttgart, Germany. Party would like to act as manufacturers' representative for local manufacturers in Shanghai, China. 17 years experience.

20704—Representation. San Salvador. Party is anxious to represent local exporters in El Salvador.

20705—Railway Ties. Haverwoods. San Salvador, El Salvador. Party inquires for names of lumber firms handling railway ties in large quantities, also firms which buy hardwoods.

NEW FORM OF COMPETITION

Considerable alarm is felt over the country concerning the growth of a new form of competition for home builders and material dealers. It is the large mail order houses, department stores and chain store groups which are offering to the public complete plans, specifications, materials, construction and financing as a single service. The increase in this new "service" is indeed alarming and demands of consideration of all men in the industry.

Various trades journals over the country are calling builders to arms to meet this new rival. One, "Building Age," is offering prizes of \$500 for the best ideas for meeting this new competition. (Kansas Construction News).

Pacific Telephone and Telegraph Co. will spend \$40,000,000 in new construction during 1931. It is announced by H. D. Hilsbury, president of the company. The 1931 budget will exceed by \$5,000,000 the average annual expenditure on large-scale construction during the past 12 years.

Engineering News Section

BRIDGES

MERCED, Merced Co., Cal.—C. C. Disney, Merced, at \$1360 awarded contract by county supervisors to construct concrete Bridge No. 226 over Mustang Creek on the Looney Road.

VENTURA, Ventura Co., Cal.—County Surveyor Chas. Petit completes plans for steel and concrete bridge over Renolon Slough on Oxnard road; 30 ft. wide, 60 ft. long; est. cost \$10,000. Bids will be asked shortly.

BERKELEY, Alameda Co., Cal.—Until December 23, 10 A. M. bids will be received by Florence E. Turner, city clerk, to construct culvert in Codornices Creek at Glen Ave. Certified check 10% payable to city required with bid. Plans on file in office of clerk and obtainable from city engineer on deposit of \$10, returnable.

SANTA ROSA, Sonoma Co., Cal.—Until January 13, 12 noon, bids will be received by Geo. P. Sanborn, county clerk, to construct a 140-ft. riveted steel truss bridge over Sonoma Creek near the Sonoma State Home in the First Supervisorial District. Project involves:

- (a) 185,000 lbs. structural steel;
- (b) 202 cu. yds. class "A" conc.;
- (c) 225 cu. yds. struc. excav;
- (d) 25,000 lbs. reinforcing steel;
- (e) 2,500 cu. yds. approach fills.

Plans on file in office of clerk and obtainable from E. A. Peugh, county surveyor.

LOS ANGELES, Calif.—Bridge and tunnel construction amounting to \$3,000,000 (including engineering and rights of way) will be bid on probably within the first six months of 1931, according to H. H. Winter, Assistant Chief Engineer of Bridges.

Sixth Street Viaduct—Bids for construction will be called as soon as the substructure and approaches to the river bed on the west bank of the river have been completed, which will be about May 1. This will be a reinforced concrete viaduct, of girder span type, with structural steel river span, a total length of 3600 ft. Est. cost, \$1,200,000.

First St. and Glendale Blvd. Separation—Plans are being prepared for grade separation, which will carry First St. traffic over the intersection of Second St. and Glendale Blvd. This structure will be of all-steel construction with a main span of 200 ft. It is described as a steel arch structure, part through and part open deck of a type used in Continental Europe. The total length is 950 ft. Est. cost, \$300,000. Total cost, including property, etc., is \$650,000.

Gaffey St. Opening and Widening Bridges—Plans are being prepared for two bridges to be built in connection with the Gaffey St. opening and widening. They will be of reinforced concrete construction and will be let in one contract. Est. cost, \$280,000.

Vermont Ave. and Pacific Electric Ry. Grade Separation—North of Anaheim St.—Plans are being completed for a reinforced concrete grade separation structure on Vermont Avenue across the San Pedro-Gardena line of the Pacific Electric Ry., north of Anaheim St. Est. cost, \$60,000.

Pedestrian Subways—Plans are being prepared for three pedestrian sub-

ways estimated to cost a total of \$40,000. These tunnels cross wide thoroughfares and will be somewhat more pretentious type than usual, but will have appearances common to the type of pedestrian subways now being built by the city.

Tunnel Station Bridge Widening—Plans are being prepared for the widening of Tunnel Station Bridge on San Fernando Road, where San Fernando Road crosses the Southern Pacific Ry. east of Newhall tunnel. Will be reinforced concrete and cost about \$35,000.

Additional Figueroa St. Extension Tunnel—Preliminary plans have been ordered for an additional tunnel on the Figueroa St. extension. Will be 700 ft. in length and cost about \$400,000. Rights of way have been secured.

Marengo St. Bridge—Preliminary plans have been ordered for the Marengo St. bridge across the Pacific Electric Railway at Covina Junction, replacing an old bridge. Construction will be of reinforced concrete. Est. cost is \$100,000.

OAKLAND, Cal.—Southern Pacific R. R., 65 Market St., San Francisco, is awaiting the signing of an agreement with the city of Oakland before proceeding with construction of the Seventh Street Subway; estimated cost \$205,000 of which the city is to pay one-half and the R. R. one-half.

ROSEVILLE, Placer Co., Cal.—Engineering Department, Southern Pacific R. R., 65 Market St., San Francisco, is completing plans for a steel overpass west of Dry Creek, near Roseville; estimated cost \$14,000. The project will be financed by the railroad, the Pacific Fruit Express Co., and owners of the property in the vicinity.

BERKELEY, Alameda Co., Calif.—Until December 23, 10 A. M. bids will be received by Florence E. Turner, city clerk, to construct culvert in Codornices Creek at Glen Ave. Project involves: 60 lin. ft. 6-ft. by 6-ft. culvert. Certified check 10% payable to city required with bid. Plans on file in office of clerk and obtainable from city engineer on deposit of \$10, returnable.

OAKLAND, Cal.—Until January 6, 10:30 A. M., bids will be received by Geo. Gross, county clerk, to construct reinforced concrete culvert on the Alvarado-Centerville road; est. cost, \$10,000. Project involves:

- (1) 570 cu. yds. excav. for structure, complete;
- (2) 340 cu. yds. Portland cement concrete in structure in place;
- (3) 63,000 lbs. reinf. steel in place;
- (4) remove existing bridge.

Plans on file in office of clerk and obtainable from Geo. A. Posey, county surveyor.

SEATTLE, Wash.—City council and the Seattle Toll Bridge Co., Dexter Horton Bldg., Seattle, have decided upon the route of the south approach of the proposed Mercer Island Bridge, the estimate cost of which \$2,500,000. Early construction is contemplated. The bridge, to be financed by the Seattle Toll Bridge Co., will be approximately 3400 ft. in length with a roadbed about 30 feet wide to provide for a pedestrian walkover as

well as vehicle traffic lanes. The deck of the bridge will be approximately 20 feet above the water level, with piers resting on a roadbed 20 feet below the surface of the lake. This span will be of the lift type, following the style of the Montlake bridge and will allow passage of the same type of water traffic as the latter span.

BUTE COUNTY, Cal.—J. H. Pomerooy Co., 251 Kearny St., San Francisco, at \$139,543 awarded contract by State Highway Commission to construct steel bridge with concrete deck over the tracks of the Western Pacific Railroad and across north fork of Feather River at Pulga, composed of one 349.95 ft. steel arch span, one 32 1/4 ft. plate girder span, one 79.06 ft. plate girder span, two 52.51 ft. plate girder spans and one 44.02 ft. plate girder span. Project involves: 590 cu. yds. class A Portland cem. conc.; 92,000 lbs. reinf. steel; 1,540,000 lbs. struc. steel including erection steel; 35,000 lbs. cast steel; 59,000 lbs. struc. in railing; 34,000 lbs. cast iron in railing; 1000 lbs. bronze expansion plates; 1 lot misc. items of work.

DREDGING, HARBOR WORKS & EXCAVATIONS

LOS ANGELES, Cal.—E. C. Eaton, chief engineer of the Los Angeles County Flood Control District, states that projects on which he hopes to start work early in the spring of 1931 include the following:

Alamitos Bay Outlet, including channel, levees, jetties, bridges and dredging. The bridges will consist of one reinforced concrete structure, and two pile trestle bridges, plans for which are being prepared by the engineers of the flood control department. Approximately 500,000 cu. yds. of dredging will be required. The total estimated cost is \$750,000. The condemnation suits are under way and the engineering plans being prepared.

Construction of about one mile of rip-rap channel in the San Gabriel River and in the Los Angeles River. Work is to start after the winter emergency work is over.

Plans are under way for ten miles of channel protection work, including dredging, fencing, piling and wire protection work, with Gunite lining and other cement work. This type of construction will be spread over 20 locations in the county.

Present forces of the department are preparing for emergency patrol work during the winter storms. Fifteen patrol houses have been built and 15 other locations have been made available for the use of the flood control district employees and channel guards.

LONG PEACH, Cal.—Merritt-Chapman-Scott Corp., Wilmington, submitted low bid to city manager Dec. 12 at \$4.15 per ton for furnishing and placing 4000 tons of stone for the west jetty located on the west bank of the entrance channel under Spec. H. D. No. 53. The other bids were: Hauser Const. Co., \$4.25 per ton; and San Francisco Bridge Co., \$4.63 per ton.

SACRAMENTO, Calif.—Blake Bros., Balboa Bldg., San Francisco, at \$260 ton (\$13,000) submitted low bid to U. S. Engineer Office, Sacramento, to

furnish, deliver and place 5,000 tons rip-rap stone along the Sacramento River between Mayberry Slough and Takers Point. Other bids all taken under advisement, are: Hutchinson Co., Oakland, \$2.65 ton (\$13,250); Healy-Tibbitts Co., San Francisco, \$2.76 ton (\$13,800).

PETALUMA, Sonoma Co., Cal.—City council is considering preliminary plans for proposed vehicular tube, across the Petaluma River at D St. to replace the present bridge.

IRRIGATION PROJECTS

FLORENCE, Ariz.—Plans and specifications for a \$624,000 development of the Randolph Irrigation District, Pinal county, are now in the process of preparation. R. G. Langmade, attorney for the district, announces.

Bids will be called as soon as possible on the many sided projects to be undertaken in the 9602 acres of land in the district. It is expected that contracts for such work can be let the first of next year.

Engineering estimates on the project have called for installation of 34 wells equipped with electrical pumps. This will give 135,000 lin. ft. of distribution. The wells recommended will be of 20-in. diameter and at a 200 ft. depth will pump 2000 gallons per minute with a lift of 80 ft.

Under the plans, all 34 wells will be of uniform construction with the same motors and pumps. The wells can be installed in series, all connected by canals so that water from any group can be distributed to any part of the project.

EL NIDO, Merced Co., Cal.—G. E. Winton, city engineer of Merced, has been appointed chief engineer of the El Nido Irrigation District, succeeding A. A. Blakesley, chief engineer for the Merced Irrigation District, who has been acting as consulting engineer. The district recently voted bonds of \$135,000 to finance the following irrigation works:

- (1) 12 miles of main canal, involving 150,000 cu. yds. canal excavation, 65,000 sq. ft. 2-in. concrete lining.
- (2) 15 miles lateral canals, involving 120,000 cu. yds. canal excavation;
- (3) Construction of 24-in. to 48-in. siphons with headwalls, bridges, drops stop-gates and side-gates, etc.

MACHINERY AND EQUIPMENT

RENO, Nevada—Until January 16, A. M., bids will be received by E. H. Deemer, county clerk of Washoe County, to furnish and deliver one ½ yard full swing gasoline shovel. Further information obtainable from clerk.

PHOENIX, Ariz.—Until January 12, 2 P. M., bids will be received by Dr. A. J. Wheeler, Phoenix Indian Sanatorium, 1550 East Indian School Road, Phoenix, to furnish and deliver a 1½-ton motor truck. Specifications obtainable from above.

FRESNO, Fresno Co., Cal.—Orange Center School District sells \$2500 bond issue for a premium of \$6. The sale will finance purchase of a bus for the transportation of pupils.

LONG BEACH, Cal.—Until 2:30 P. M., Dec. 23, bids will be received by the city manager, C. C. Lewis, for one-track laser tractor in accordance with specifications which may be obtained from the offices of the city manager.

SACRAMENTO, Cal.—Until Dec. 26, 8:15 P. M., bids will be received by H. G. Denton, city clerk, to furnish one gasoline engine driven, three-wheeled road roller for use of the Street Maintenance Division of the Engineering Department. Cert check 5% payable to City Controller required with bid. Specifications on file in office of clerk. Fred J. Klaus, city engineer.

SACRAMENTO, Cal.—Until Dec. 26, 8:15 P. M., bids will be received by H. G. Denton, city clerk, to furnish three motor trucks for use of the Street Cleaning Division of the Engineering Department. Certified check 5% payable to City Controller required with bid. Specifications on file in office of clerk. Fred J. Klaus, city engineer.

SACRAMENTO, Cal.—Until Dec. 26, 8:15 P. M., bids will be received by H. G. Denton, city clerk, to furnish three dump bodies for use on trucks of the Street Cleaning Division of the Engineering Department. Certified check 5% payable to City Controller required with bid. Specifications on file in office of clerk. Fred J. Klaus, city engineer.

SAN FRANCISCO.—Until December 29, 3 P. M., under Proposal No. 670, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish and deliver one motor boat for San Francisco Municipal Airport. Specifications obtainable from above office.

ROSEVILLE, Placer Co., Cal.—As previously reported, Edward R. Bacon Co., 17th and Folsom Sts., San Francisco, at \$500 awarded contract by city council to furnish one asphalt machine, including tool heaters, tamping heaters, etc. Complete list of bids follows, all bidders being in San Francisco with the exception of Peerless Machinery & Mfg. Co. of Oakland:

A. L. Young Machinery Co.	264
Kratz & McClelland, Inc.	285
Harron, Rickard & McConce Co.	292
Aeroliol Burner Co., Inc.	375
Jenison Machinery Co.	389
Peerless Machinery Mfg. Co.	418
Taylor & George.	475
Edward R. Bacon Co.	500

SAN FRANCISCO.—Until December 30, 2 P. M., bids will be received by J. W. Grace, superintendent of equipment, Shop No. 4 State Highway Commission, California State Bldg., Civic Center, for the sale of the following equipment no longer required:

- CHC 2560 Chevrolet Touring, located at Fruitvale Highway Yard
- CHC 3353 Durant 4-Door Sedan, located at Fruitvale Highway Yard
- CHC 76 Buick Buick, 24-in. by 96-in., located at San Jose Highway Yard.
- CHC 60 Grader Tractor Attachment, International Duplex 12 foot Road Maintainer, located at Fruitvale Highway Yard.
- CHC 35 Mixer, Concrete, ½ sack, Foote No. 4-E, located at San Jose Highway Yard.
- CHC 27 Pump 2-in. Centrifugal, G. W. Price Type, located at Petaluma Highway Yard.
- CHC 38 Scraper, Dairling Disc, located at Petaluma Highway Yard.

Bidders may make offers for one or more items but must state price offered for each item. No lump sum bids will be considered.

All equipment may be inspected at the Division of Highways' yards as noted after each item, between the hours of 8:30 A. M. and 4:30 P. M.

REDDING, Shasta Co., Cal.—Until December 30, 2 P. M., bids will be received by J. M. O'Malley, superintendent

of equipment, Shop No. 2 State Highway Commission, Redding, for the sale of the following equipment, no longer required:

- CHC 2490 Touring Car, Dodge, 1927 model.
- CHC 2558 1-ton Truck, Chevrolet, 1927 model.
- CHC 2673 Touring Car, Dodge, 1928 model.
- CHC 46 Compressor, Ingersoll-Rand, 9x8 Type, 20 portable.
- CHC 72 Grader Tractor Attachment, Spears-Wells.
- CHC 46 Kettle, Asphalt, 110-gal.
- CHC 181 Tractor, McCormick-Deering.

Bidders may make offers for one or more items but must state price offered for each item. No lump sum bids will be considered.

All equipment may be inspected at the Division of Highways' yards at Redding, Calif., from 7:30 A. M. to 4:30 P. M.

HUMBOLDT COUNTY, Cal.—Until December 30, 2 P. M., bids will be received by W. H. Pierce, superintendent of equipment, Shop No. 1, State Highway Commission, Eureka, for the sale of the following equipment, no longer required:

- CHC 2497 Dodge Touring.
- CHC 2640 Chevrolet Coach
- CHC 2717 Chevrolet Coach.
- CHC 10 Elevator, 32 inch Bucket.
- CHC 11 Elevator, 34 inch Bucket.
- CHC 236 Grader, Austin Giant, 8 inch
- CHC 4 Screen, Revolving, 36 inch by 12 feet.
- CHC 12 Screen, Revolving, 36 inch by 12 feet.
- Ingersoll-Rand Compressor, Type 12, 4½x5-23 cu. ft.
- Ireland Scraper attachment for 8 ft. Austin Grader.
- 1 lot of parts for ¾ yd. P. & H. Shovel.

Bidders may make offers for one or more items but must state price offered for each item. No lump sum bids will be considered. All equipment may be inspected at the Division of Highways, yards at Eureka.

RAILROADS

PHOENIX, Arizona—The Santa Fe Railway is planning to expend \$5,000,000 on the construction of a 30-mile branch line to serve the Paradise Deer valley section in connection with the \$23,000,000 Verde Irrigation and Power District project covering 100,000 acres north of Phoenix.

FIRE EQUIPMENT

NATIONAL CITY, San Diego Co., Cal.—Until 7:30 P. M., Jan. 6 bids will be received by the city council for furnishing a 500-gal. pumping engine for the fire department of the city, in accordance with specifications which may be obtained from the city clerk, O. A. Mullen.

SAN JOSE, Santa Clara Co., Cal.—Osen Motor Sales, San Jose, at \$1250 allowing \$175 for turn-in on chassis of Chemical No. 3, awarded contract by city council to furnish one Dodge Bros. truck, Model U. S. 30, 160-in. wheel base, equipped with 30x5-inch S-ply tires (dual on rear) to replace Chemical No. 3.

RESERVOIRS AND DAMS

PASADENA, Los Angeles Co., Cal.—Construction of a 4,000,000-gal. reservoir on the Allen Avenue site will start soon after the first of the year, according to a statement by Samuel

R. Morris, chief engineer of the water department. Plans are being prepared. The estimated cost is \$40,000.

SAN DIEGO, Cal.—The construction of a diversion dam at Mission Gorge site No. 2 will probably be authorized by the city council as the first development of the San Diego river by the city. The work will probably be started as soon as the Otay pipe line is completed, when \$350,000 of unexpended Otay pipe line funds will be released. City Hydraulic Engineer H. N. Savage plans to pump water into the San Diego Lake side pipe line, which runs by Site No. 2, to the University Heights reservoir. The construction of this diversion dam will provide an average of 2,500,000 gallons a day.

ORANGE, Orange Co., Cal.—Bids will be taken probably within the next four months for the construction of a dam in Santiago Canyon as a joint project of the Irvine Co., Irvine, The Carpenter Water Co., El Modena, and the Serrano Irrigation District, Orange. The Irvine Co. will pay one-half and the others one-quarter each, of the total cost which is estimated at \$750,000. Ponds have been voted by the districts and the issues \$200,000 each, have been sold to the First National Bank of Orange and the First National Bank of Santa Ana. Kempke, Hobart Elder, San Francisco, consulting engineer, is completing the plans for the structure, which is to be an earth fill dam 125 ft. in height, with concrete spillway, etc., providing a 25,000-acre feet storage reservoir. As soon as completed the plans will be forwarded to the State Engineer for approval. Financial details will be handled by Willard Smith, First National Bank, Orange.

LOS ANGELES, Cal.—E. C. Eaton, chief engineer of the Los Angeles County Flood Control District, reports that plans are under way and sites are being explored for the construction of three dams, check dams, spreading grounds, and appurtenant works in the San Gabriel Canyon, estimated to cost a total of \$20,000,000, funds for which are provided in the San Gabriel Bond issue previously set aside for the high dam in San Gabriel Canyon. The three principal dams will be of the flexible type, of either rock fill or flexible concrete type.

HAWTHORNE, Nevada—Bureau of Yards and Docks, Navy Department, Washington, D. C., is preparing plans for a concrete reservoir to be constructed at Hawthorne, Nevada, in connection with the Naval Ammunition Plant, storage capacity 25,000,000 cu. yds. Estimated cost \$150,000. Details will be published when the plans are further advanced.

PIPE LINES, WELLS, ETC.

RENO, Nev.—Feasibility of piping natural gas from the California oil fields to Reno and Sparks, Nev., and the possibility of making Reno a distribution point for the gas through the use of railroad tank cars, is being studied by engineers of the Standard Oil Co. and the Pacific Gas and Elec. Co., according to word from Reno.

SEWERS AND SEWAGE DISPOSAL PLANTS

LOS ANGELES, Calif.—The County Sanitary Sewer Division of the County Surveyor's office lists projects for which bids will probably be taken within the next few months as follows:

County Improvement No. 928—Han-

over St., Montebello Park. Plans are completed. The system will be built of vitrified clay sewer pipe and cost approximately \$70,000.

County Improvement No. 874—The Strand, north of Manhattan Beach. Plans completed for a sewer system in The Strand, north of Manhattan Beach, and bids will be asked after the first of the year. This sewer is part of a combination road and sewer project designated as County Imp. No. 874, including pavement, sewers and water mains. The work will involve about two miles of vitrified sewer with appurtenant structures.

County Improvements Nos. 70 and 757—Plans are being prepared to complete the Belvedere sewer system. The proposed lines, which will total several miles of cement concrete pipe sewer, will be built in the vicinity of Arizona Ave. Bids will probably be taken within four months.

County Improvement No. 962—Plans have been ordered by the county board of supervisors for a sewer system to be built in Arteria to serve the thickly-populated section of this community and covering approximately 175 acres. The lines will total several miles but the type of pipe to be used has not been determined. The outlet will connect with the trunks of the County Sanitation District.

LOS ANGELES, Cal.—A. K. Warren, chief engineer, County Sanitation Districts, preparing plans for sewage digester tanks at Sewage Treatment Plant in District No. 2. Estimated cost \$100,000.

LOS ANGELES, Cal.—A. K. Warren, chief engineer, County Sanitation Districts, preparing plans for extension of Downey-Bellflower Trunk Sewer in District No. 2, involving 4 miles of 21-in. and 24-in. sewer.

LOS ANGELES, Cal.—A. K. Warren, chief engineer, County Sanitation Districts, preparing plans for Hooper Ave.—Compton Creek Trunk Sewer in District No. 1, involving 33-in. and 36-in. reinforced concrete pipe, approximately 4 miles in length. Est. cost, \$200,000.

SPARKS, Nev.—City council plans to extend sewer system to Coney Island. Tentative estimates place the cost at \$10,000. C. C. Taylor, city engineer.

MODESTO, Stanislaus Co., Calif.—With a view to relieving unemployment, Mayor Sol P. Elias advocates construction of sewers in the industrial district costing \$15,500, a unit of the \$55,000 sewer extension program contemplated by the city. Frank J. Rossi is city engineer.

MISCELLANEOUS CONSTRUCTION

LOS ANGELES, Cal.—City Harbor Commission is considering the construction of a vehicular tunnel to connect Terminal Island with the mainland near Wilmington. The concrete tube would be 5,375-ft. long with a 2-way 25-ft. driveway in the center. Its top would be 45-ft. below mean low water. Estimated cost \$5,250,000. Additional details of this project will be given when the plans are further advanced.

LOS ANGELES, Calif.—Co. Bridge Engineer, W. B. Armstrong, 12th floor Hall of Records, is completing plans for two grade separations on which the board of supervisors will probably take bids within the next few months. They are:

A grade separation structure at Victory Place and Southern Pacific Ry. tracks carrying traffic under the railway tracks on Victory which connects with Riverside Drive for interurban traffic. This structure will be of steel and concrete and cost \$100,000. The cost will be shared by the railway company, the county, and the City of Burbank. Plans are under way.

A grade separation structure at Firestone Blvd. and the Union Pacific Ry. carrying Firestone Blvd. under the railway tracks. This structure is of steel and concrete design, and the county portion is estimated to cost \$40,000. The railway company is working on its portion at the present time.

BERKELEY, Alameda Co., Calif.—Until December 30, 10 A. M., bids will be received by Florence E. Turner, city clerk, to construct a dam in Cragsmont Slide Area and drill holes to release sub-surface water. Project involves:

Alternate A

- (1) Entrance opening;
- (a) 50 lin. ft. tunnel section (where depth of cut exceeds 12 ft.);
- (b) 20 cu. yds. open cut (where depth of cut is less than 12 ft.)

Alternate B

- (a) 145 cu. yds. open cut throughout length of entrance opening;
- (2) 215 cu. yds. open cut in galleries;
- (3) 125 lin. ft. 8-in. corr. iron pipe;
- (4) 120 cu. yds. gravel backfill;
- (5) 1 cu. yd. concrete in place.

Certified check 10% payable to city required with bid. Plans on file in office of clerk.

WATER WORKS

MILLBRAE, San Mateo Co., Cal.—Election will be held January 24 in the Millbrae Utility District to vote bonds of \$14,000 to finance construction of a water system involving piping system, storage tank, pumps, hydrants, etc. Line will connect with a main of the Spring Valley System at

CONTRACTORS' MACHINE WORKS
SPECIALISTS ON REPAIRING AND REBUILDING OF
Bunkers, Hoppers, Chuting, Conveyors, Rollers, Mixers, Hoists,
Shovels, Tractors, Pavers, Crushers, Drag Lines, Elevators, Car
Unloaders, and other Road and Building Equipments;
BLACKSMITHING AND WELDING
Builders of Rosenberg Portable Car Unloaders

CREAR & BATES

57 Zoe St., bet. 3rd and 4th, off Brannan St.
Phone GARfield 4374 San Francisco

El Camino Real and Chadbourne Ave. and will terminate at a storage tank on the Mills property.

SAN FRANCISCO.—Hyron-Jackson Co., 55 New Montgomery St., at \$2,900 submitted low bid to Board of Public Works to furnish and install electrically driven centrifugal pump with appurtenances at the Mills Field Municipal Airport. Complete list of bids follows:

Hyron-Jackson Co.	\$2,900
C. D. DeVelliss	4,198
Butte Elec. & Mfg. Co.	4,600
P. L. Burr	5,162

SACRAMENTO, Cal.—City council has authorized preparation of plans for a new sedimentation basin at the municipal filtration plant to replace the present structure. It is possible a bond election will be held to secure funds to finance the work, although, in emergency, the council has power to build the project by levying a special assessment. Fred J. Klaus is city engineer.

REDWOOD CITY, San Mateo Co., Cal.—Until December 22, 3 P. M., bids will be received by E. E. Myers, city clerk, to furnish and deliver f.o.b. cars Redwood City:

- (a) 6,000 lin. ft. 8-in. c.i. water pipe;
- (b) 3,000 lin. ft. 6-in. do.;
- (c) 1 8-in. cast iron tee;
- (d) 6 8x8x6-in. cast iron tees;
- (e) 4 8x8x4-in. cast iron tees;
- (f) 6 6-in. cast iron tees.

Pipe to be bell and spigot pattern in lengths of not less than 12-ft. nor more than 16-ft. All tees to be all bell. Pipe to conform to American Water Works Assn. specifications for class "B". Delivery 60 days after award of contract. Certified check 10% payable to city required with bid. Specifications obtainable from C. L. Dimmitt, city engineer.

SAN FRANCISCO.—Until December 22, 10 A. M., under Schedule No. 928-31-154, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver 450 pipe fittings; soil, cast iron, standard; "T" branches, sanitary, 2-hubs, equal and similar to #C-36260, Page 725, Crane Cat., 140 as follows: 250 2x2-in. 200 4x4-in.

Further information obtainable from above.

PORTLAND, Ore.—Until Dec. 29, 2 P. M., bids will be received by Frank Coffinberry, city purchasing agent, to construct Ross Island Bridge mains and connecting lines for the Bureau of Water Works. Estimated cost, \$200,000. The new lines will consist of a 30-in. cast iron main from East Tenth and Division Streets to the east line of the Ross Island bridge at Powell boulevard and Grand avenue, where the main will be split into two 24-in. steel lines to cross the bridge under the sidewalk area and suspended to the bridge. At the west end of the bridge the two lines again meet in a 30-in. cast iron main which hooks up at Mill and Water streets with the 32-in. supply line from one of the reservoirs in the city park. Certified check 5% payable to city required with bid. Specifications obtainable from Bureau of Purchases, 205 City Hall.

LOS ANGELES, Calif.—Plans have been ordered and are under way for a metal tank to be built at the General Hospital for the storage of soft water. The capacity will be about 15,000 gallons. The estimated cost is \$18,000. A separate contract will be let for the concrete platform which will have a roof. The estimated cost of the latter work is \$1300.

SAN FRANCISCO.—Following contracts awarded by Leonard S. Leavy, city purchasing agent, to furnish and deliver underground brass fittings for San Francisco Water Department, under Proposal No. 6-7:

300 $\frac{3}{4}$ by $\frac{3}{4}$ -inch Coupling cocks $\frac{3}{4}$ -inch "P" tail pieces, complete with nuts, at \$9.61 each; Mueller Co.

50 $\frac{1}{2}$ by $\frac{3}{4}$ -inch Coupling cocks $\frac{3}{4}$ -in. "AA" tail pieces, complete with nuts, at \$9.21 each; Mueller Co.

600 $\frac{3}{4}$ by $\frac{3}{4}$ -inch lead and iron unions, $\frac{3}{4}$ -inch "AA" tail pieces, complete with nuts, at \$9.21 each; Mueller Co.

2500 $\frac{3}{4}$ -inch Locking stop cocks at \$9.30 each; James Jones Co.

150 1-inch Locking stop cocks at \$9.45 each; James Jones Co.

100 1 $\frac{1}{2}$ -inch Locking stop cocks at \$1 each; James Jones Co.

100 2-inch Locking stop cocks at \$1.50 each; James Jones Co.

150 2-inch Main stop cocks at \$1.45 each; James Jones Co.

500 $\frac{3}{4}$ -inch Screw taps complete with nuts and $\frac{3}{4}$ -inch "AA" tail pieces at \$0.55 each; James Jones Co.

600 $\frac{1}{2}$ -inch Screw taps complete with nuts and $\frac{3}{4}$ -inch "B" tail pieces at \$0.55 each; James Jones Co.

50 1-inch Screw taps complete with nuts and $\frac{3}{4}$ -inch "AA" tail pieces at \$0.75 each; Mueller Co.

50 1 $\frac{1}{2}$ -inch Screw taps less nuts and tail pieces at \$1.35 each; James Jones Company.

25 2-inch Screw taps less nuts and tail pieces at \$2.25 each; James Jones Company.

SAN JOSE, Santa Clara Co., Cal.—Election will be held January 15th in the Santa Clara County Water Works District No. 1 (near Palo Alto) to bond for \$30,630 to finance construction of a domestic water distributing system.

LOS ANGELES, Calif.—American Concrete Pipe Co., 4635 Firestone Blvd., awarded contract by city purchasing agent to furnish 1,824 ft. 30-in. centrifugally cast cement concrete pipe, under Specification No. 2245.

OAKLAND, Cal.—Until January 5, 8:30 P. M., bids will be received by East Bay Municipal Utility District, 512 16th St., to furnish and deliver:

- (1) approximately 50,000 ft. 20-in., 16-in. and 6-in. cast iron pipe;
- (2) 500 valves, 6-in. to 16-in. inclusive, for distributing system.

Specifications obtainable from the above.

LOS ANGELES, Calif.—American Concrete Pipe Co., 4635 Firestone Blvd., awarded contract by city purchasing agent, under Specification No. 2261, to furnish centrifugal (Hume) concrete pipe, as follows: 384 ft. 42-in., \$4.58; 744 ft. 33-in., \$3.25; 304 ft. 24-in., \$2.03; 160 ft. 21-in., \$1.71.

PLACERVILLE, El Dorado Co., Cal.—Until December 30, 10 A. M., bids will be received by H. W. Irwin, secretary, El Dorado Irrigation District, for equipment in connection with the Webber Creek Dam, under

Schedule A:

One 30-inch c. i. thimble.
One 30-inch butterfly valve, complete with all appurtenances.
Two 5-inch air valves, complete, with connections.

Schedule B:

One needle valve, complete with operating mechanism and special connections.

Schedule C:

755 lin. ft. 30-inch sinice and double riveted 30-inch plate steel pipe, complete installed with connections, bends and specials.

Certified check 10% payable to district required with bid. Specifications obtainable from secretary on deposit of \$20, returnable.

LOS ANGELES, Cal.—Western Pipe and Steel Co., 5717 Santa Fe Avenue, awarded contract by city purchasing agent to furnish welded steel pipe 34,920 ft. 51-in., \$6.29 ft.; 240-ft. 35-in., \$5.20 ft.; 96 ft. transitions, \$10.80 foot.

EXETER, Tulare Co., Cal.—City council contemplates water system improvements. Tentative plans submitted by Irvn H. Althouse, engineer of Porterville, provide for the installation of a 200,000-gal. storage tank; well drilling installation of a deep well and booster pumps and extensions to mains.

SANTA BARBARA, Cal.—Until 3 P. M., Dec. 18, bids will be received by the city council for furnishing 1560 ft. of 8-in. class B cast iron pipe. Specifications may be obtained from Carl E. Hasse, city purchasing agent. Certified check or bond, 10%.

SACRAMENTO, Cal.—Following is a complete list of the bids received by city clerk to furnish and deliver 31 water meters of various sizes for use of Water Mains Division:

- (1) 8 $\frac{3}{4}$ -in. meters each; (2) 11 1-in., (3) 7 $\frac{1}{2}$ -in.; (4) 52-in.

Worthington Co., 543 Howard St., San Francisco, (1) \$12.80; (2) \$17.00; (3) \$27.80; (4) \$56.70.

C. C. Clausen Co., San Francisco, (1) \$14; (2) \$20.25; (3) \$27.50; (4) \$56.50.

Sacramento Pipe Works, Sacramento, (1) \$15.75; (2) \$23.10; (3) \$49; (4) \$60.

Crane Co., Sacramento, (1) \$16.70; (2) \$24.36; (3) \$43.20; (4) \$64.80.

Schaw-Batcher Co., Sacramento, (1) \$18.75; (2) \$31.10; (3) \$54; (4) \$75.

Bids held under advisement until Dec. 18.

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Timpie Hydrated Lime

STRONG—PURE—PLASTIC

Ten Years of Uniformly Satisfactory Experience in High

Class Pacific Coast Construction

FOR BRICK MORTAR, WHITE COAT AND SAND FLOAT FINISH

Sold by Representative Dealers Everywhere

SANTA BARBARA, Cal.—Victor H. Trace, Water Works Superintendent, reports that the city water commission has recommended to the city council that a \$2,100,000 water bond issue be called to provide funds for improvements to the city water system. A date for the election will probably be set by the city council shortly after Jan. 1. The work proposed, as recommended by Quinton, Code and Hill, consulting engineers, includes:

Raising the present Gibraltar Dam, and constructing new rock fill dam within a period of five years, \$2,000,000.

Underground water development, \$200,000.

El Cielito and La Mesa Reservoirs with necessary connections, \$90,000.

Repairs to the Sheffield reservoir, \$80,000.

Replace of 24-in. redwood line, \$60,000.

Tunnel repairs, \$50,000.

Repairs and replacements must be built from earnings and the commission recommends the items reduced to bring the issue to \$2,100,000.

GLENDAL, Calif.—National Cast Iron Pipe Co., 417 S. Hill St., Los Angeles, was awarded the contract by the city council Dec. 11, at prices shown below, for cast iron pipe as follows:

- (1) 204 ft. 30-in. class D cast iron pipe;
- (2) 2200 ft. 30-in. class B do;
- (3) 500 ft. 24-in. class B do;
- (4) 600 ft. 20-in. class D do.

The prices were: (1) \$9.78; (2) \$7.24; (3) \$5.07; (4) \$4.98.

Reliable Iron Foundry, 1611 Fishburn St., Los Angeles, was awarded the contract for 40 tons class D fittings at \$78.50 ton.

STREETS AND HIGHWAYS

BURLINGAME, San Mateo Co., Cal.—Action on the proposed improvement of Newhall Road from Forest View Ave. to Sanchez Ave., involving grading; 6-inch waterbound macadam base paving with 2½-in. asphalt wearing surface, walks, etc., has been postponed by the city council until February 1, due to protests of property owners.

SALINAS, Monterey Co., Cal.—W. A. Dontanville, Salinas, at 6770-97 awarded contract by city council (91) to improve Pajaro St., bet. Sausal and Lake Sts., involving grading, hyd. cement concrete curbs, sidewalks, 6-in. hyd. cement concrete pavement.

SAN RAFAEL, Marin Co., Calif.—Peter Bottini, San Rafael, awarded contract by County Purchasing Agent Frank L. Brown to construct sidewalks and curbs in 4th and 5th Sts., fronting county property; 15c sq. ft. walks, 40c lin. ft. curbs.

SANTA BARBARA, Cal.—Until 1:30 P. M., Jan. 2, bids will be received by the city council to improve Calle Poniente between Valerio St. and its northerly terminus, and a portion of Valerio St., involving asphaltic concrete pavement, vitrified sewer, manholes, house connections, etc. 1911 Act. E. E. Brown, city engineer. G. D. Gelb, city clerk.

WATSONVILLE, Santa Cruz Co., Cal.—Granite Construction Co., Watsonville, awarded contract by city council to improve Roosevelt St. from California to Stanford Sts., involving grading, 2½c sq. ft.; macadamizing, 14c sq. ft.; asphaltting, 3c sq. ft.; conc. gutters, 25c sq. ft.; conc. curb, 65c lin. ft.

OAKLAND, Cal.—Until December 24, 12 noon, bids will be received by Frank C. Merritt, city clerk, to improve E-Tenth St., bet. 11th St. and 60th Ave., Russet St., bet. 60th and 54th Aves., etc. Project involves:

- (1) 156,749 sq. ft. grading;
- (2) 341 lin. ft. conc. curb with steel curb guard;
- (3) 2597 lin. ft. concrete curb without steel curb guard;
- (4) 154,790 sq. ft. conc. pavement;
- (5) 93 lin. ft. 8-in. by 20-in. corr. iron and concrete culvert;
- (6) 14 lin. ft. 10-in. vit. pipe conduit;
- (7) 34 lin. ft. 15-in. vit. pipe conduit;
- (8) 2 handholes;
- (9) 1 concrete inlet with cast iron top;
- (10) 1 storm water inlet (21-in. opening);
- (11) 1 manhole top.

1911 Act. City will pay 29% of cost from Treasury. Est. cost \$47,500. Certified check 10% payable to City required with bid. Plans on file in office of clerk. Walter N. Frickstad, city engineer.

SAN BERNARDINO COUNTY, Cal.

—Until December 22, 3 P. M., bids will be received by E. Q. Sullivan, district engineer, State Highway Commission, San Bernardino, to furnish and apply as a dust layer, heavy fuel oil on 0.9 mile of Mojave River bridge approaches, about 3 miles north of Victorville. Specifications obtainable from engineer.

FRESNO, Fresno Co., Cal.—Bids are being received (date for opening not set) by D. M. Barnwell, county clerk, to furnish during the calendar year of 1931 not less than 125,000 or more than 175,000 barrels of road oil processed or unprocessed, the pure asphalt bitumen content to be not less than 58 per cent or more than 70 per cent. Bids shall be per barrel in carload lots f. o. b. shipping point same to be designated in all bids, freight to be prepared to all points in Fresno County and to be billed by adding freight to contract price at shipping point. Factors to be considered in awarding bid are the quality of the oil as shown by the bid and the total cost of the oil as ultimately delivered f. o. b. Fresno.

Deliveries shall be made between the first day of June and the first day of November, 1931, at such time as the same are requisitioned by the said Board of Supervisors, provided that contractor shall not be required to deliver more than 40,000 barrels of oil in any one calendar month, nor more than 2400 barrels any one day. One barrel hereunder shall be understood to contain forty-two gallons.

Certified check \$1,000, payable to county required with bid. Further information obtainable from Chris P. Jensen, county surveyor.

MENLO PARK, San Mateo Co., Cal.—City council declares intention (30) to improve College Ave. and Cambridge Ave. from Arbor Road to El Camino Real; Harvard Ave. bet. University Drive and El Camino Real; University Drive from Middle Ave. to Stanford Ave.; Yale Road bet. Middle Ave. and Stanford Ave.; Princeton Road bet. College and Stanford Aves., including all street intentions, involving grading, 1½-in. emulsified asphalt wearing surface on 4-in. waterbound rock base, hyd. cem. conc. curbs, 4-in. vit. ironstone pipe sewer service connections. 1911 Act. Bond Act 1915. Hearing December 30. Fannie I. Kurtz, city clerk.

SAN FRANCISCO—Bureau of Engineering, Department of Public Works, 3rd Floor, City Hall, completes specifications to improve University Ave., bet. Silver Ave. and Silliman St., involving:

- 96 lin. ft. armored concrete curb;
- 1926 sq. ft. asph. conc. pavement, consisting of 2-in. asph. concrete wearing surface on 6-in. class "F" conc. base.

SAN FRANCISCO—Bureau of Engineering, Department of Public Works, 3rd floor, City Hall, completes specifications to construct 5000 sq. ft. 2-course sidewalks in south half of States St., bet. Levant and Castro Sts., etc. Est. cost \$750.

RED BLUFF, Tehama Co., Cal.—M. C. Polk, engineer, Chico, in a report to the county supervisors estimates cost of 6.4 mile of the Proberta Lo Molina Highway at \$3,150 for standard width asphaltic surface pavement. The project is to be financed by the Butte-Tehama Joint Highway District.

REDWOOD CITY, San Mateo Co., Cal.—Until December 22, 3 P. M., bids will be received by B. E. Myers, city clerk, to improve Warwick St. from Edgewood Road in Redwood City to Eaton Ave. in the town of San Carlos, including termination of Finger Ave. in Redwood City, involving sanitary sewers, storm water sewers, cement concrete pavement, asphaltic macadam pavement, cement concrete curbs, gutters, walks. Certified check 10% payable to city required with bid. Plans on file in office of clerk and obtainable from C. L. Dimmitt, city engineer.

SEATTLE, Wash.—City council plans paving of 50 miles of unpaved street car tracks at a cost of \$2,000,000. The method of financing the work is yet to be determined. City Councilman F. J. Laube who will introduce a resolution providing for the work, declares that property owners abutting on the improvement should not pay any portion of the cost.

REDWOOD CITY, San Mateo Co., Cal.—Until December 22, 3 P. M., bids will be received by B. E. Myers, city clerk, to improve Warwick St. from Edgewood Road in Redwood City to Eaton Ave. in the town of San Carlos, including termination of Finger Ave. in Redwood City, involving:

- (1) Removal of all eucalyptus trees within limits of the work;
- (2) 85 lin. ft. 6-in. vit. pipe sewer;
- (3) 128 lin. ft. 4-in. do;
- (4) 265 lin. ft. 18-in. concrete storm sewer;
- (5) 1 storm water catchbasin with c. i. frame and grating;
- (6) 2 brick manholes with c. i. frame and covers;
- (7) 1 manhole to be rebuilt as per plans;
- (8) 706 cu. yds. excavation;
- (9) 80 cu. yds. embankment;
- (10) 520 lin. ft. cement concrete curb and gutter;
- (11) 6825 sq. ft. 6-in. asph. macadam pavement;
- (12) 14,725 sq. ft. 5-in. cement conc. pavement;
- (13) 930 lin. ft. cement concrete curb integral with pavement;
- (14) 7,425 sq. ft. cem. concrete sidewalk 4-in. in thickness.

Certified check 10% payable to city required with bid. Plans on file in office of clerk and obtainable from C. L. Dimmitt, city engineer.

PALO ALTO, Santa Clara Co., Cal.—City council declares intention (948) to improve Palo Alto Ave., Hale, Pope and Dana Sts., Forest Court, Addi-

son and Harker Aves., Webster St., Embarcadero Road, Lane "B" East, Santa Rita Ave., Sherman Avenue, Princeton, Obelin and Harvard Sts., involving construction of vit sewer mains and connections, brick manholes, c. i. water mains and galy. iron water pipe connections, fire hydrants, gas mains, concrete storm sewer pipe, cem. conc. pavement, sidewalks, etc. 1911 Act. Hearing January 12. E. L. Beach, city clerk. J. F. Byxbee, city engineer.

SACRAMENTO, Cal.—A. Teichert & Sons, 1846 37th Ave., Sacramento, at \$6830 awarded contract by county supervisors to construct rock sub-base on Manzanita Ave., involving (a) 168,642 sq. ft. subgrade, \$4002; (b) 168,648 sq. ft. rock, \$4385. Other bids:

J. R. Reeves, Sacramento, (a) \$401; (b) \$655. Total, \$10,961.73.
E. F. Hilliard, Sacramento, (a) \$401; (b) \$66. Total, \$11,804.94.

OAKLAND, Cal.—Until December 31, 12 noon, bids will be received by Frank C. Merritt, City Clerk, to improve portions of Hampton Rd., Liggett Dr., Estates Dr., Sims Dr. and Pershing Dr., involving grading; curbs, gutters; paving; storm water drainage system. City will pay one-half the cost of the storm water drainage system from General Fund. Improvement Act 1913. Certified check 10% payable to city required with bid. Plans on file in office of clerk. Walter N. Frickstad, city engineer.

OAKLAND, Cal.—Ed. Bowman, 311 Sunset Blvd., Hayward, awarded contract by city council to improve portions of 92nd Ave., involving:

- 50,637 sq. ft. grading, \$4005—
- 1,626 lin. ft. concrete curb, \$60;
- 3,259 sq. ft. concrete gutter, \$22;
- 27,172 sq. ft. penetration macadam pavement, \$12;
- 2 storm water inlets (Type E), \$40;
- 153 lin. ft. 21-in. reinf. conc. pipe conduit, \$3;
- 114 lin. ft. 18-in. conc. pipe conduit, \$220;
- 80 lin. ft. 12-in. conc. pipe conduit, \$145;
- 765 lin. ft. 8-in. vit. pipe sewer, \$140;
- 4 manholes, \$50;
- 16 Y branches, \$1.

STOCKTON, San Joaquin Co., Cal.—Until January 5, bids will be received by Eugene Graham, county clerk, for grading and graveling and placing light oil top on three miles of the Peltier road, running east from Cherokee Lane north of Lodi. Specifications obtainable from Julius Mantey, county surveyor.

ROSS, Marin Co., Cal.—Until Jan. 8, 3 P. M., bids will be received by C. J. Bradley, town clerk (7) to improve portions of Chestnut Ave. and Bridge Road, involving grading, Bitulumen pavement, gutters, 1 concrete catch-basin, extend 12-in. vit. pipe sewer. 1911 Act. Bond Act 1915. Certified check 10% payable to town required with bid. Plans on file in office of clerk.

SAN JOSE, Santa Clara Co., Cal.—San Jose Paving Co., San Carlos and Dupont Sts., San Jose, awarded contract by city council (5238) to improve Morse and Chapman Sts. bet. Fremont and Singletary Aves., involving grading, 1½-in. asph. concrete surface pavement on 2½-in. asph. conc. base; cement conc. sidewalks, curbs, vit. pipe lateral house sewers.

SALINAS, Monterey Co., Cal.—Proceedings have been started by city council for sidewalks in west side of

Allan St., east side of San Leandro and north side of Main Sts., and for widening of Lincoln St.

SANTA BARBARA Co., Cal.—Gist & Bell, Arcadia, at \$204,070 submitted low bid to State Highway Commission Dec. 17 to grade and pave with Portland cement concrete, 2.8 miles bet. Gaviota and 1 mile north of Las Cruces. Complete list of bids follows:

Gist & Bell, Arcadia	\$204,070
Jahn & Bressel Co., L. A.	213,823
Barish Bros. Co., Torrance	218,245
J. F. Knapp, Oakland	219,595
Cornwall Const. Co., Santa Barbara	233,734
Marco Const. Co., Clearwater	239,703
J. G. Donovan & Son, L. A.	253,630

Bids held under advisement.

SAN LUIS OBISPO Co., Cal.—Peninsula Paving Co., Standard Oil Bldg., San Francisco, at \$268,382 submitted low bid to State Highway Commission Dec. 17 to grade and pave with asphalt concrete, 10.9 miles bet. Paso Robles and north boundary. Complete list of bids follows:

Peninsula Paving Co., S. F.	\$268,382
Hauptman Co., San Francisco	276,735
Hemstreet & Bell, Marysville	277,553
Irvine & Ryder, San Jose	289,575
Jones & King, Hayward	295,370
Clark & Henry, S. F.	302,850
Steele Finley, Santa Ana	303,512
Basich Bros. Const. Co., Torrance	305,958
H. W. Rohl Co., Los Angeles	311,376
Geo. H. Oswald, Los Angeles	312,014
Valley Paving & Const. Co., Visalia	314,228
A. Teichert & Son, Sacto.	318,333
O. A. Lindberg, Stockton	319,277
Griffith Co., Los Angeles	323,395
Marco Const. Co., Clearwater	350,876

Bids held under advisement.

PETALUMA, Sonoma Co., Cal.—A. Schlunegger, Petaluma, awarded contract by city council to improve Martha St. bet. Kentucky and Main Streets.

W. J. TOBIN AT \$108,394 WINS DALY CITY SEWER CONTRACT

REDWOOD CITY, San Mateo Co., Cal.—W. J. Tobin, 527 Palfour Ave., Oakland, at \$108,394 awarded contract by county supervisors to construct (19) sewer system in Daly City and Colma sections. Followings is a complete list of the unit bids received:

(a) W. J. Tobin, Oakland	\$108,394	(e) C. L. Harney, San Francisco	\$122,792
(b) R. R. McNair, Oakland	118,221	(f) C. W. Cowdin, S. F.	125,376
(c) M. J. Bevanda, Stockton	118,876	(g) J. C. Hickey	127,430
(d) P. & H. Const. Co.	120,454		

Vit. Clay Pipe Sewer

(1) 66,000 lin. ft. 6-in.	(2) 1,700 lin. ft. 8-in.	(3) 4,800 lin. ft. 10-in.	(4) 2,900 lin. ft. 12-in.	(5) 5,400 lin. ft. 15-in.	
(6) 12 inch storm sewer	Cast Iron Pipe Sewer				
(7) 2,100 lin. ft. 8-in.	(8) 240 lin. ft. 14-in.				

	(a)	(b)	(c)
(1)	\$.62	\$.65	\$.70
(2)	.71	1.00	.84
(3)	.92	1.20	1.09
(4)	1.00	1.30	1.20
(5)	1.70	1.70	1.70
(6)	1.20	2.00	2.00
(7)	1.60	1.80	2.00
(8)	4.30	7.00	5.30
(9)	.40	.50	1.20
(10)	.50	.70	1.65
(11)	.60	.90	2.25
(12)	.75	1.10	2.90
(13)	.75	1.80	4.70
(14)	70.00	75.00	70.00
(15)	\$6,132	\$6,513	\$6,500
(16)	14,939	16,000	15,000

	(d)	(e)	(f)	(g)
(9)	\$.83	\$.70	\$.70	\$.84
(10)	.80	.75	.75	1.00
(11)	1.06	1.00	1.00	1.20
(12)	1.22	1.10	1.10	1.30
(13)	1.56	2.00	1.60	1.85
(14)	1.35	2.00	1.00	2.30
(15)	1.64	2.00	2.00	1.90
(16)	3.04	4.25	5.00	4.50
	.60	.50	.50	.80
	.75	.50	.65	1.00
	1.00	1.00	.90	1.10
	1.25	1.00	1.10	1.80
	2.50	2.00	1.70	3.50
	65.00	70.00	50.00	70.00
	\$6,350	\$7,500	10,000	\$5,200
	13,760	19,000	18,000	15,000

Vit. Clay Wye Branches

(1) 1,800 6x4-in.	(2) 25 8x4-in.	(3) 50 10x4-in.	(4) 110 12x4-in.	(5) 60 15x4-in.	(6) 330 manholes.
(7) D St. pump, complete.	(8) Disposal plant, complete.				

City will pay one-half the cost of the storm water drainage system from General Fund. Improvement Act 1912. Cert check 10% payable to city required with bid. Plans on file in office of clerk. Walter N. Frickstad, city engineer.

COCONINO COUNTY, Arizona—C. G. Willis & Sons, 2119 E. 25th St., Los Angeles, awarded contract by U. S. Bureau of Public Roads, at \$149,068.60 for grading of Section C. Route 7, Oak Creek National Forest Highway in Coconino National Forest, Coconino County Arizona, involving 2,818 ml. grading.

An offer of Gordon Whitnall, city planning expert, to serve in an advisory capacity on the City Planning Commission at a salary of \$50 a month, has been taken under advisement by the Burlingame city council.

Contracts Awarded

Liens, Acceptances, Etc.

BUILDING PERMITS

San Francisco County

No.	Owner	Contractor	Amt.
1591	Cashel	Owner	2000
1592	Durkes	Coburn	1500
1593	Galtie	Stone	2000
1594	Cheffoli	Giusti	1000
1595	Struthers	Owner	7000
1596	California	Barrett	25000
1597	Flagiello	Owner	2000
1598	Gilmore	Michel	1450
1599	Hammond	Owner	4000
1600	Kaiser	Barrett	11000
1601	Meyer	Owner	8000
1602	Ilyin	Owner	1350
1603	Kaiser	Cohn	5000
1604	Meagher	Owner	6000
1605	Meagher	Owner	6000
1606	Meagher	Owner	6000
1607	Miller	Owner	4000
1608	Owl	Owner	1500
1609	Allen	Owner	2500
1610	Cereghino	De Benedetti	1000
1611	Morris	Owner	35000
1612	Grahn	Owner	9600
1613	Delrien	Owner	3000
1614	Railway	Forderer	6000
1615	Samuelson	Owner	6000
1616	Wells Fargo	McDonald	10000
1617	Seafmanini	D'amico	4500
1618	Poultry		60000
1619	Lindsay	Owner	3000

INDUSTRIAL BLDG.

(1591) SE MINNA ST. 175 SW 7th; 1-story and mezzanine floor frame light industrial building.
Owner—W. D. Cashel, 739 Clementina Street.
Plans by Owner. \$2000

REPAIRS

(1592) 1237 FOLSOM ST.; repair fire damage.
Owner—Durkee-Thomas Co., 1237 Folsom Street.
Architect—Not Given.
Contractor—L. W. Coburn, 2048 Market Street. \$1500

ALTERATIONS

(1593) 1201 FOLSOM ST.; alterations to dyeing and cleaning works.
Owner—L. Galtie, 1201 Folsom St.
Architect—F. L. Klern.
Contractor—Stone & Post, Monadnock Bldg. \$2000

ALTERATIONS

(1594) NE SANSOME and Jackson; alterations to machine shop for office and display room.
Owner—Cheffoli & Cory Motor Car Co. Sansome and Jackson Sts.
Architect—Not Given.
Contractor—S. A. Giusti & Co., 200 Green St. \$1000

DWELLINGS

(1595) NW TARA 120 SW Niagara; two 1-story and basement frame dwellings.
Owner—M. T. Struthers.
Plans by Owner. each \$3500

ALTERATIONS

(1596) CALIFORNIA ST. bet. Montgomery and Kearny Sts.; alterations to market for store and garage.
Owner—California Market Properties Co., 738 Merchants' Exchange Building.
Architect—G. W. Kelham, 315 Montgomery St.
Contractor—Barrett & Hilp, 918 Harrison St. \$25,000

DWELLING

(1597) SE MADRID 250 SW Russia; one-story and basement frame dwelling.
Owner—L. Flagiello, 780 Head St.
Architect—Not Given. \$2000

SERVICE STATION

(1598) NW POST and Webster Sts.; one-story steel frame service station.
Owner—Gilmore Oil Co., Third Ave. and 18th St.
Plans by Owner.
Contractor—Michel & Pfeiffer, Harrison and Tenth Streets. \$1450

DWELLING

(1599) N VICENTE 97 E 17th Ave.; one-story and basement frame dwelling.
Owner and Builder—L. B. Hammond, 520 Vicente St.
Architect—Not Given. \$4000

GRAVEL PLANT

(1600) NE 18th and CAROLINA; construct frame gravel plant.
Owner—Kaiser Paving Co., 18th and Carolina.
Engineer—L. H. Nishkian, Underwood Building.
Contractor—Barrett & Hilp, 918 Harrison St. \$11,000

DWELLINGS

(1601) S ROCKDALE 68 W Peposa; two 1-story and basement frame dwellings.
Owner and Builder—Meyer Bros., 727 Portola Drive.
Plans by D. T. Eurks, 727 Portola Dr. each \$4000

ALTERATIONS

(1602) 1961 GREEN ST.; alterations to residence.
Owner—G. A. Ilyin, 1961 Green St.
Architect—None. \$1350

BIN SUPPORT

(1603) 18th and CAROLINA Streets; class A support for gravel bins.
Owner—Kaiser Paving Co., Oakland.
Engineer—L. Nishkian, Underwood Building.
Contractor—L. J. Cohn, 1 De Haro St. \$5000

FLATS

(1604) NE BEAVER ST. bet. Castro St. and 15th St.; two-story and basement frame (2) flats.
Owner and Builder—G. Meagher, 140 Beaver Street.
Plans by Owner. \$6000

FLATS

(1605) N BEAVER ST. 250 W Castro St.; 2-story and basement frame (2) flats.
Owner and Builder—G. Meagher, 140 Beaver Street.
Plans by Owner. \$6000

FLATS

(1606) E BEAVER ST. 230 S 15th St.; 2-story and basement frame (2) flats.
Owner and Builder—G. Meagher, 140 Beaver Street.
Plans by Owner. \$6000

DWELLING

(1607) W 34th AVE. 175 S Judah St.; one-story and basement frame dwelling.
Owner—P. S. Miller, 1370 34th Ave.
Architect—Not Given. \$4000

ALTERATIONS

(1608) 895 MARKET ST.; alterations to drug store for shoe store.
Owner—The Owl Drug Co., 657 Mission St.
Plans by E. A. Duval, 207 Dalziel Bldg., Oakland. \$1500

REPAIRS

(1609) 7 OTSEGO ST.; repair fire damage.
Owner—E. S. Allen, 310 Cambridge St.
Architect—Not Given. \$2500

ALTERATIONS

(1610) 4291 MISSION ST.; alterations for store.
Owner—L. Cereghino, 4291 Mission St.
Plans by C. M. Baker, Alexander Bldg.
Contractor—A. De Benedetti 22 Cotter St. \$1000

APARTMENTS

(1611) NW 30th AVE. and Fulton St.; three-story and basement frame (15) apartments.
Owner—A. T. Morris & Sons, 3500 Fulton St.
Plans by Owner. \$35,000

DWELLINGS

(1612) SW LATHROP and Tocoloma; three 1-story and basement frame dwellings.
Owner—W. H. Grahn, 2945 Mission St.
Plans by Owner. each \$3200

DWELLING

(1613) NE SHAFTER 225 W Ingalls; one-story and basement frame dwelling.
Owner—A. Delrien, 1899 Oakdale Ave.
Plans by C. Magne, Redwood City. \$3000

ALTERATIONS

(1614) 635 FOLSOM ST.; alterations for offices.
Owner—Railway Express Agency, Inc. 204 Wells Fargo Bldg.
Plans by J. H. Humphreys, 408 Wells Fargo Bldg.
Contractor—Forderer Cornice Works and James F. Smith, 271 Minna St. \$6000

DWELLINGS

(1615) S ARLETA 275 N Delta; two one-story and basement frame dwellings.
Owner and Builder—A. M. Samuelson, 901 Geneva St.
Architect—Not Given. each \$3000

CAPITAL CITY TILE COMPANY

J. C. PALEN

Manager

914 Seventh Street

Sacramento - - - California

RECONSTRUCT VAULT
(1616) COIT, MARKET and Montgomery Sts.; reconstruct vault.
Owner—Wells Fargo Bank & Union Trust Co., Montgomery and Market Sts.
Engineer—T. Ronneberg, Crocker Building.
Contractor—MacDonald & Kahn, 200 Financial Center Bldg. \$10,000

DWELLING
(1617) NE COR. CERVANTES Blvd. and Beach St.; 2-story and basement frame dwelling.
Owner—L. Sealmanlin, 936 Jackson St.
Architect—Not Given.
Contractor—A. D'amico, 2345 Polk St. \$4500

WAREHOUSE
(1618) E BATTERY ST. 45 S Val-lejo Sts.; 3-story and basement class B warehouse.
Owner—Foultry Producers of Central California, 700 Front St.
Architect—H. C. Baumann, 251 Kearny St. \$60,000

DWELLING
(1619) E GAMBIE 75 N Sillman; 1-story and basement frame dwelling.
Owner—C. T. Lindsay, 4363 26th St.
Architect—Not Given. \$3000

BUILDING CONTRACTS

San Francisco County

No.	Owner	Contractor	Amt.
249	Hahnemann	California	—
251	Ferrari	Klimm	3800
252	Ferrari	Masari	13,142
253	Landsburg	Pereira	6000
250	Southern Pacific	Klimm	1482
254	S. P.	Ocean Shore	1113
255	Kaiser	Barrett	11762

(249) NE COR. CALIFORNIA AND Maple Sts., 3698 California St.; all work for wrecking hospital.
Owner—Hahnemann Hospital.
Architect—Not Given.
Contractor—California Wrecking Co.
Filed Dec. 12, '30. Dated Dec. 8, '30.
Payments and total cost not given.
Bond, \$5000. Sureties, The Fidelity & Casualty Co. of New York. Limit, 90 days.

HOSPITAL

(250) LOCATION NOT GIVEN. All electrical work for general hospital.
Owner—Southern Pacific Co., 65 Market St., San Francisco.
Architect—Not Given.
Contractor—Frank J. Klimm Co., Inc., 456 Ellis St., San Francisco.
Filed Dec. 13, '30. Dated Dec. 3, '30.
On 1st of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, \$1482
Bond, \$1482. Surety, U. S. Guarantee Co. Limit, 12 days. Forfeit, none.
Plans and specifications filed.

PLUMBING, ETC.

(251) E PIERCE ST. 80-6 S Union St 32 x E 112-6; plumbing, sewerage, gas fitting and warm air heating system on two-story and basement frame building.
Owner—C. J. Ferrari, 619 Green St.
Architect—J. A. Porporato, 619 Washington St.
Contractor—Frank J. Klimm Co., Inc., 456 Ellis St.
Filed Dec. 15, '30. Dated Dec. 12, '30.
Rough plumbing in..... \$ 940
Piping in for warm air system..... 300
Completed and accepted..... 1500
Usual 35 days..... 1060
TOTAL COST, \$3580
Limit, 90 days. Plans and Spec. filed.

(252) ALL WORK on above building except plumbing, heating system, shades and chandeliers.
Contractor—Masari & Cuneo
Filed Dec. 15, '30. Dated Dec. 8, '30.
Roof on..... \$3000
Brown coated..... 3142
Completed and accepted..... 3285
Usual 35 days..... 3715
TOTAL COST, \$13,142

Bond, \$7000. Sureties, Jos. J. Cuneo.
Fedele da Col. Limit, 90 days. Plans and Spec. filed.

FLAT

(253) W GOUGH ST. 87-6 N Francisco St. N 25 x W 112-6; all work on 4-room flat under present residence.

Owners—Chas. E. and T. Lansburg.
Architect—J. J. Foley, 770 5th Ave.
Contractor—J. A. Pereira, 1601 20th Avenue.

Filed Dec. 16, '30. Dated.....
Builders' bond and spec.

TOTAL COST, \$6000
Bond, \$5000. Sureties, Pacific States Savings & Loan Co. or Pacific Indemnity Co. Spec. filed.

SMOKESTACK

(254) LOCATION OMITTED; extension of powerhouse smokestack.
Owner—Southern Pacific Co., 65 Market St.
Architect—Not Given.

Contractor—Ocean Shore Iron Works, 550 8th St.

Filed Dec. 17, '30. Dated Dec. 11, '30.
1st of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, \$1113

Bond, \$1113. Sureties, U. S. Guarantee Co. Limit, 14 days.

WOOD & CONCRETE WORK

(255) NE 18th and CAROLINA STS.; wood construction and concrete work for gravel distributing plant.

Owner—Kaiser Paving Co., 74 New Montgomery St.
Consulting Engineer—L. H. Nishkian.
Contractor—Barrett & Hilp, 918 Harrison St.

Filed Dec. 17, '30. Dated Dec. 9, '30.
5th and 20th of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, \$11,763

Bond, \$5880. Sureties, A. Lachman.
Limit, 63 days. Plans and Spec. filed.

COMPLETION NOTICES

San Francisco County

Recorded	Accepted
Dec 10, 1930—SE UNION ST and Van Ness Ave S 38 x E 125. A and C S Silverstone to whom it may concern	December 10, 1930
Childress to whom it may concern	December 15, 1930
Dec 15, 1930—2500 UPLAND DRIVE Mt Davidson Manor Thos J Sullivan to whom it may concern	December 13, 1930
Dec 12, 1930—NW NATOMIA 34 NE Russ NE 36 x NW 75. F A and S M Radefinger to whom it may concern	December 12, 1930
Dec 12, 1930—S FRANCISCO 57-6 E Mason E 50 x S 110. P O Tog-nell to C Lindberg	Dec 10, 1930
Dec 12, 1930—W 21st AVE 200 S Moraga S 25 x W 120 J L Kurth to whom it may concern	December 12, 1930
Dec 12, 1930—LOT 5 BLK 259 map Sub No 4 Miraloma Park. The McCarthy Co to Meyer Bros	December 8, 1930
Dec 12, 1930—FELL and BAKER Sts. Southern Pacific Co to Geo D Dorwan	December 10, 1930
Dec 12, 1930—E ALEMANY BLVD 125 S San Juan Ave 25x112. A De Benedetti to whom it may concern	December 12, 1930
Dec 11, 1930—E HYDE ST bet Lom-	

bard and Greenwich, 2240 Hyde St. 2240 Hyde St bet J A Mohr & Son Inc. December 4, 1930
Dec 11, 1930—E 26th AVE 250 S Ulloa S 50 x E 120. N E Johnson to whom it may concern

December 11, 1930
Dec 10, 1930—E SIXTEENTH AVE 200 S Vicente 25x127-6. Walter G Ryberg to G J Elkington & Sons

December 5, 1930
Dec 10, 1930—25 on N IRVING ST 82-6 E from 27th St. A M Greenwood to whom it may concern

December 10, 1930
Dec 15, 1930—N 25th 50 and 75 E York, 257-0 and 453-95, respectively. V P Laguens to whom it may concern

December 12, 1930
Dec 15, 1930—E 19th AVE 56-5 S Santiago St S 25 x E 70; S Santiago St 70 and 95 E 19th Ave E 25 x S 51-5. F M Stich to whom it may concern

December 5, 1930
Dec 15, 1930—NE GREEN and Steiner Sts E 52-6 x N 100. H K

LIENS FILED

San Francisco County

Dec 11, 1930—LOT 2 BLK 42, Map of Ingleside Terraces. Carl Letsch vs M Hertz \$50

Dec 11, 1930—LOT 2 BLK 42, Map Ingleside Terraces. E Hlatton vs M Hertz \$50

Dec 10, 1930—SE NAILES ST 275 NE Brazil St NE 25 x SE 100. Malott & Peterson vs W Z Malchow also known as W C Malchow and Geo C Malchow, E and G Diana \$109

Dec 10, 1930—N OF FARRELL ST and W Hyde St W 55 N 84-8 E 12-4 N 4-in E 42-8 S 85. L Salomon vs Anglo Calif Trust Co, Hamsfield Inv Co Ltd, Calif Pacific T & Co, F E Beers and M G Fisher \$216.40

Dec 10, 1930—NW BUSH and Polk Sts W 87-6 x N 120. Pacific Coast Aggregates, Inc vs B Goldman, T Gerson, E Breyer and L Cohn-reich and P Friedman. \$1347.49

Dec 15 1930—SE ROOSEVELT Way 122-24 SW Levant SW 25x60 Geo Harder, \$198; P J Casann, \$199, vs P Hilde

Dec 15, 1930—E NINTH AVE 153 N Noriega N 25 x E 120. W C Jewett vs H S Klingspor. \$199

Dec 12, 1930—E 4th AVE 150 South Santiago S 50 x E 120 James E Lennon Lime & Cement Co vs J Tignard \$259.44

RELEASE OF LIENS

San Francisco County

Recorded	Amount
Dec 17, 1930—SE ROOSEVELT Way 122-24 SW Levant SW 25 x E 60. O Pantozi as Str Concrete Co to F Ralliet and F Hale	

BUILDING PERMITS

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
1491	Brazler	Owner	4850
1492	Grain	Owner	3500
1493	Richardson	Hoyt	1200
1494	Thornston	Ray	2500
1495	Bemis	Owner	2000
1496	Dashell	Owner	3300
1497	Hull	Justice	4500
1498	Haller	Owner	2500
1499	Puelt	Owner	2350
1501	Alameda	Same	28725
1502	Glanitz	Owner	5500
1503	Sternor	Owner	7700
1504	Andredeggen	Owner	2000
1504	Ashur	Owner	1500
1505	Jervis	Owner	7800
1506	Jervis	Owner	7900

1507 Krowell	Papenhausen	12000
1508 Porter	Owner	18000
1509 Shell	Prentice	1250
1510 Berkeley	Owner	1000
1511 Gish	Michelson	1000
1512 Lalne	Owner	1500
1513 Bruzzone	Cohen	1500
1514 Cianciarulo	Gerbode	1500
1515 Hoyt	Stolte	6000
1516 Steindel	Owner	7500
1517 Hammarberg	Owner	4500
1518 French	Owner	4000
1519 Wheeler	Owner	4750

RESIDENCE
(1491) NO. 2345 CORONA COURT, **BERKELEY**. Two-story 6-room 1-family frame residence. Owner—J. W. Brazier, 1227 Spruce St., Berkeley. Architect—Not Given. \$4850

DWELLING
(1492) NO. 1340 SAN JOSE ST., **SAN LEANDRO**. One and one-half-story 5-room dwelling. Owner—H. P. Garin, 405 Sansome St., San Francisco. Architect—W. W. Dixon Plan Co. \$3500

ALTERATIONS
(1493) NO. 912 ARLINGTON AVE., **BERKELEY**. Alterations. Owner—G. H. Richardson. Architect—Not Given. Contractor—H. Hoyt, 45 Second St., San Francisco. \$1200

ALTERATIONS
(1494) NO. 2307 PIEDMONT AVE., **BERKELEY**. Alterations. Owner—W. R. Thorston. Architect—Not Given. Contractor—Bay City Asbestos Co., 158 10th St., Oakland. \$2500

STORE
(1495) NE COR. 43rd ST. and Telegraph Ave., **OAKLAND**; 1-story store. Owner and Builder—K. Bemis, 1962 San Pablo Ave., Oakland. Architect—Not Given. \$2000

DWELLING
(1496) E HAMLINE AVE. 100 NE 32nd St., **OAKLAND**; one-story 5-room dwelling. Owner and Builder—E. L. Dashiell, 3549 Calafia St., Oakland. Architect—Not Given. \$3000

DWELLING
(1497) W MANOR CREST 226 North Chabot Road, **OAKLAND**; 1-story 5-room dwelling. Owner—C. M. Hull, 2247 40th Avenue, Oakland. Architect—Not Given. Contractor—N. F. Justice, 973 Pearl St., Alameda. \$4500

ALTERATIONS
(1498) NO. 181 OAK ROAD, **PIEDMONT**. Alterations. Owner—Paul Haller, 1612 Hearst Ave., Berkeley. Architect—Not Given. \$2500

ALTERATIONS
(1499) NO. 2334 BOWDITCH ST., **BERKELEY**. Alterations. Owner—Dorothy Pucht. Architect—Not Given. \$2350

RESIDENCE
(1500) NO. 2108 CALIFORNIA ST., **BERKELEY**. One-story 5-room 1 family frame residence. Owner—Ernest Anderregen, 2102 California St., Berkeley. Architect—Not Given. \$2000

REPAIRS
(1501) BAY FARM ISLAND BRIDGE **ALAMEDA**. Repairs to bridge (frame work).

Owner—County of Alameda, Fifth St. and Broadway, Oakland. Architect—Not Given. Contractor—County of Alameda \$38,725

RESIDENCE
(1502) NO. 430 MICHIGAN AVE., **BERKELEY**. Two-story 6-room 1-family frame residence. Owner—A. A. Glantz, 432 Michigan Ave., Berkeley. Architect—W. W. Dixon, 1844 5th Ave., Oakland. \$5500

DWELLING
(1503) NO. 1707 CAMBRIDGE DRIVE **ALAMEDA**. Two-story 7-room frame and stucco dwelling. Owner—S. J. Sterner, 1715 Central Ave., Alameda. Architect—D. R. Anderson. \$7700

(1504) 478 30th STREET, **OAKLAND** addition. Owner and Builder—E. C. Asher, 478 30th St., Oakland. Architect—Not Given. \$1500

DWELLING
(1505) NW COR. TRESTLE GLEN and Kingsley Place, **OAKLAND**; two-story 6-room dwelling and 1-story garage. Owner and Builder—E. R. Jervis, Box 1175, Oakland. Architect—H. Slocombe, 64 York Dr., Oakland. \$7000

(1506) N TRESTLE GLEN 51 West Kingsley Place, **OAKLAND**; two-story 6-room dwelling. Owner and Builder—E. R. Jervis, Box 1175, Oakland. Architect—H. Slocombe, 64 York Dr., Oakland. \$7000

DWELLING
(1507) 1509 LA LOMA AVE., **BERKELEY**; two-story 9-room frame and stucco residence. Owner—E. J. Krowell, 1928 Los Angeles Ave., Berkeley. Architect—Masten & Hurd, 210 Post St., San Francisco. Contractor—H. Papenhausen, 595 Victoria St., San Francisco. \$12,000

DWELLING
(1508) W 92nd AVE. 150 N B Street, **OAKLAND**; one-story four-room dwelling. Owner and Builder—Mrs. B. Porter, 2508 Grant St., Oakland. Architect—Not Given. \$1800

SERVICE STATION
(1509) SW COR. E 14th STREET and 82nd Ave., **OAKLAND**; one-story concrete service station and one-story brick comfort station. Owner—Shell Oil Co. Architect—Not Given. Contractor—George D. Prentice, 4055 San Pablo Ave., Oakland. \$1250

BOILER ROOM
(1510) NO. 1113 FRANCISCO ST., **BERKELEY**. One-story Class C boiler room. Owner—Berkeley Board of Education. Architect—Not Given. \$1000

ALTERATIONS
(1511) NO. 4706 FAIRVIEW ST., **BERKELEY**. Alterations. Owner—B. Gish. Architect—Not Given. Contractor—J. P. Michelson, 1638 Alcatraz Ave., Berkeley. \$1000

RESIDENCE
(1512) NO. 2131 BYRON ST., **BERKELEY**. One-story four-room 1-family frame residence. Owner—O. Laine. Architect—Not Given. \$1500

ALTERATIONS
(1513) 5403 E 14th ST., **OAKLAND**; alterations. Owner—Joe Bruzzone, 5403 E 14th St., Oakland. Architect—Not Given. Contractor—S. & A. Cohen, 17th and Franklin Sts., Oakland. \$1500

REPAIRS
(1514) 1726-30 WEST ST., **OAKLAND**; fire repairs. Owner—J. A. Cianciarulo, 1930 Broadway, Oakland. Architect—Not Given. Contractor—F. A. Gerbade, 1338 Grand Ave., Oakland. \$1500

MACHINE SHOP
(1515) SE TENTH ST. 102 E High St., **OAKLAND**; one-story brick machine shop. Owner—R. C. Hoyt, 926 High Street, Oakland. Architect—Not Given. Contractor—F. C. Stolte, 3455 Laguna Ave., Oakland. \$6000

DWELLING
(1516) S BROOKSIDE AVE. 160 W Valley Road, **OAKLAND**; two-story 6-room dwelling and garage. Owner and Builder—Sam Steindel, 38 Northampton Ave., Berkeley. Architect—Not Given. \$7500

RESIDENCE
(1517) 726 HILLDALE AVE., **BERKELEY**; one-story 6-room 1-family frame residence. Owner—Albert Hammarberg, 2340 Le Conte Ave., Berkeley. Architect—Not Given. \$4500

RESIDENCE
(1518) 89 BONNIE LANE, **BERKELEY**; one-story 6-room 1-family frame residence. Owner—O. M. French, 1740 Walnut St., Berkeley. Architect—Not Given. \$4000

DWELLING
(1519) 1624 TRESTLE GLEN ROAD, **OAKLAND**; two-story seven-room dwelling. Owner and Builder—James M. Wheeler, 3750 Park Blvd., Oakland. Architect—Not Given. \$4750

BUILDING CONTRACTS

ALAMEDA COUNTY			
No.	Owner	Contractor	Amt.
146	Kaliski	Doyle	4290
147	Rowell	Papenhausen	13100
148	Regents	Barrett	27522
149	Broadway	Wagner	787144

ALTERATIONS
(146) 5631 COLLEGE AVE., Oakland; alterations and additions to present heating and ventilating system in theatre building. Owner—Kaliski-Harband Theatre Co., premises.

Architect—J. A. Cantin, 544 Market St., San Francisco. Contractor—Doyle Sheet Metal W'krs, 292 Fremont St., San Francisco. Filed Dec. 12, '30. Dated, Dec. 11, '30. When completed \$2800 Usual 35 days 500 Balance payable by notes in 6 months after completion

TOTAL COST, \$4290
Limit, Dec. 29, 1930. Plans and Spec. filed.

RESIDENCE
(147) E LA LOMA AVE. 50 ft. south of Buena Vista Ave., Berkeley; general construction on two-story and basement frame and stucco residence and garage. Owner—E. I. and Della P. Rowell, Berkeley. Architect—Masten and Hurd, Shreve Bldg., San Francisco.

Contractor—Henry Iapenhausen, 5 9 5
Victoria St., San Francisco.
Filed Dec. 12, '30. Dated Dec. 10, '30.
When frame is up.....\$2750
When brown coated.....2750
When completed.....3250
Usual 35 days.....4250
TOTAL COST, \$13,100
Bond, \$6550. Sureties, C. W. Higgins,
P. O. Lind. Forfeit, \$10 per day. Lim-
it, 90 days. Plans and Spec. filed.

GARAGE & SERVICE STATION
(148) OXFORD ST. and Berkeley
Way, Berkeley; general construction
of garage and service station
Owner—The Regents of the University
of California, Berkeley.
Architect—W. H. Ratcliff, Jr., Cham-
ber of Commerce Bldg., Berkeley.
Contractor—Barrett & Hupp, 918 Har-
rison St., San Francisco.
Filed, Dec. 16, '30. Dated Dec. 9, '30.
1st of each month.....75%
Usual 35 days.....Balance
TOTAL COST, \$27,352
Bond: Labor and Materials, \$14,000;
Performance, \$14,000. Sureties, Phila-
delphia Casualty Co. Forfeit, \$25 per day.
Limit, 65 days. Plans and Spec. filed.

THEATRE
(149) NW LINE BROADWAY 140 ft.
NE of 20th St., Oakland; general
construction on theatre bldg.
Owner—Broadway & Twentieth Prop-
erties, Inc.
Architect—Miller & Pfueger, 580 Mar-
ket St., San Francisco.
Contractor—Geo. Wagner, San Fran-
cisco.
Filed Dec. 17, '30. Dated Dec. 3, '30.
Progress payments to.....30%
Usual 35 days.....10%
TOTAL COST, \$787,144
Bond, \$787,144. Sureties, Pacific In-
demnity Co. Limit, 325 days. Plans
and Spec. filed.

COMPLETION NOTICES

Alameda County

Dec 15, 1930—LOT 39, Lakeshore
Manor, Oakland. E W Zeigler to
whom it may concern. Dec 15, 1930
Dec 15, 1930—E BROADWAY 60 ft
N 17th St, Oakland. Andrew Wil-
lms to Wilber C Cobb
Dec 13, 1930—NE ATHERTON ST
and 2nd Ave, Oakland. Roman
Catholic Archbishop of San Fran-
cisco to Ernest Icardi. Dec 10, 1930
Dec 13, 1930—647 SAN LOUIS RD.
Berkeley. David and Rauba Kes-
ti to whom it may concern.
December 10, 1930
Dec 13, 1930—1135-37-39 SPRUCE
ST, Berkeley. Alphonse J and
Grace E Mervy to Mac Jordan.
December 9, 1930
Dec 12, 1930—PTN BLK F, Plat of
Lewelling Division, Alameda. No-
ble F Justice to Wm Watson
December 10, 1930
Dec 12, 1930—S SANTA CLARA
Ave 50 ft E of Chestnut St, Ala-
meda. George L and Florence
Williams to Carl O Anderson.
December 12, 1930
Dec 15, 1930—LOT 149th and 1st
Lot 149, Unit C Oak Knoll, Oak-
land. J D Colburn to Wm Arthur
December 15, 1930
Dec 16, 1930—LOT 107, East 14th St
Terrace, Alameda County. A E
Pelton to whom it may concern.
December 10, 1930
Dec 12, 1930—LOTS 43, 44, 45 and
46 and N 1/2 lots 30 and 31 blk
15, amended map of Sunset Ter-
race, Albany. J G and Freda M
Erown to whom it may concern.
November 28, 1930
Dec 12, 1930—LOT 146 and N 2 ft
Lot 147, Broadmoor Park, San
Leandro. Earl and Harold Derry
to Derry Bros. December 10, 1930
Dec 11, 1930—N ELMWOOD opp
Derby St, Oakland. Morris Dray-

Ing Co to The Dyer Const Co.
December 10, 1930
Dec 10, 1930—986 EUCLID AVENUE
Berkeley. Alvin C Richards to H
K Schulz. December 4, 1930
Dec 10, 1930—1 SEAVIEW AVE,
Piedmont. R S Rheem to H J
Christensen. December 9, 1930
December 1, 1930
Dec 10, 1930—711 ESTUDILLO AVE,
San Leandro. Pete Albarello to
J Cisero and A H Malby.
Dec 16, 1930—PTN LOTS 34 and 41
Map No 2 of the Glen Echo Tract,
Oakland. Leo J Lesser to F A
Maeller. December 15, 1930
Dec 15, 1930—3729 WISCONSIN ST
Oakland. Harry C and Carrie C
Tagney to P Roy Haulman.
December 11, 1930
Dec 15, 1930—577 ARNOLD DRIVE,
Oakland. Geo Windsor to Self.
December 15, 1930
Dec 15, 1930—237 PARK VIEW,
Piedmont. Geo Windsor to Self
December 15, 1930
Dec 15, 1930—LOT 1 BLK N, Ban-
croft Gardens, San Leandro. Wm
S Oxley to Chas W Falk.
December 10, 1930

LIENS FILED

Alameda County

Recorded	Amount
Dec 12, 1930—1117 CLARENDON Crescent, Oakland. H C Brown Roofing Co, Ltd vs Donald M and A Pearson.....	\$247.50
Dec 12, 1930—2333 TENTH AVE, Berkeley. Berkeley Bldg Mate- rials Co vs L A Ammon & Amer- ican Cleaners.....	\$33.16
Dec 12, 1930—E LENOX 250-55 S Montecito Ave, Oakland. C W Abbott vs Albert and Emily Krowl, East Bay Title Co and A M Powlson.....	\$440.34
Dec 12, 1930—E LENOX 250-55 S Montecito Ave, Oakland. Bay Cit- ies Asbestos Co, Inc vs A E Krowl and A M Powlson.....	\$270
Dec 12, 1930—M BERGER 110-28 W Woodland, San Leandro. Frank Lopas, \$147; Central Bldg Mate- rials Co, \$301.35, vs Henry and Eleanor Bruner, Joseph Franklin Dec 10, 1930—SW PACIFIC AVE and Webster St, Alameda. E K Wood Lumber Co vs Mildred H and Otta A Leydecker, Melrose Steel Co, Inc and Union Oil Co of California.....	\$205.26
Dec 10, 1930—SW LINE JOHN ST and NW line of Piedmont Ave, Oakland. E K Wood Lumber Co vs William H and Mable H Weeks, Melrose Steel Co, Inc. \$40.19 Dec 16, 1930—PARCEL ONE, LOTS 47 and 48 of the Milton Tract; Parcel Two SW San Pablo Ave 157 ft NW of 27th St, Oakland. Union Machine Works of Oakland, Inc vs Standard Creameries Co, Ltd, A E Williams, East Bay Re- evaluator Co.....	\$269
Dec 15, 1930—LOT 24, Cherry Man- or, San Leandro. Atlas Heating & Ventilating Co, Ltd vs A F Hanson, L M Mumford.....	\$171.60
Dec 15, 1930—LOT 14, Cherry Man- or, San Leandro. Atlas Heating	

& Ventilating Co, Ltd vs A F Hanson, L M Mumford.....	\$187.40
Dec 15, 1930—LOT 9, Cherry Man- or, San Leandro. Atlas Heating & Ventilating Co, Ltd vs A F Hanson, L M Mumford.....	\$186.88
Dec 13, 1930—LOTS 10 and 11 BLK 964C, Apgar Tract, Oakland Tok- helm Oil Tank and Pump Co vs Leon Velsa, Sam Brenner, Mel- rose Steel Company.....	\$75.60
Dec 13, 1930—E LENOX AVE 250-55 S of Montecito Ave, Oakland. East Bay Sand & Gravel Co vs Albert and Emily Kroll.....	\$838
Dec 12, 1930—SW PIEDMONT AVE and John St, Oakland. Tokhelm Oil Tank and Pump Co vs W H Weeks, Melrose Steel Co.....	\$50.40
Dec 12, 1930—444 MICHIGAN AVE, Berkeley. Superior Title & Pro- ducts Co vs Earl Converse.....	\$215
Dec 12, 1930—W CHESTNUT 33-04 Eagle Ave, Alameda. H C Brown Roofing Co vs L Hancock and L H Albers.....	\$162
Dec 10, 1930—E LENOX 250-55 S South Montecito, Oakland. Joseph & Marino Chintetto vs Albert and Emily Krawl.....	\$211
Dec 10, 1930—116 12th St, Oakland. Scott-Euttner Elec Co vs Ottilie M and Anna M Klingsberg and Stanton Mfg Co.....	\$9.61

RELEASE OF LIENS

Alameda County

Recorded	Amount
Dec 13, 1930—PTN LOTS 1 and 2 Elk 12, Cragmont, Berkeley. I C Chausen to Mary M, James G and Jenn M Walton, J Harry Smith.....	\$87
Dec 13, 1930—PTN LOTS 1 and 2 Blk 12, Cragmont, Berkeley. T P Hogan Co to J Harry Smith.....	\$160.06
Dec 11, 1930—LOT 15 BLOCK 6, Thousand Oaks Heights, Berke- ley. Boorman Lbr Co to Henry F and Gertrude I Gross.....	\$675.65
Dec 9, 1930—1215 53rd St, Oakland. Western Roofing Co Inc to Mrs Eva Kelso, Julia K Sayre.....	\$36

BUILDING CONTRACTS

SANTA CLARA COUNTY

SCHOOL
NAGLEE ST. New Herbert Hoover
Junior High School, San Jose.
General contract for school.
Owner—San Jose High School District
of Santa Clara County.
Architect—Not Given.
Contractor—Frank Naves and H. L.
Harp (as Naves & Harp), 591
Harrison St., Santa Clara.
Filed Dec. 9, '30. Dated Dec. 12, '30.
As work progresses.....75%
Usual 35 days.....25%
TOTAL COST, \$119,700
Bonds (2) \$59,850 each. Surety, United
States Guarantee Co. Limit, 200
working days after date. Forfeit, none.
Plans and specifications filed.

TERRA COTTA TILE ROOF ON
above.
Contractor—Rush Roofing Co., 217
Santa Clara Bldg., San Jose.

Member Insurance Brokers' Exchange

FRED H. BOGGS
INSURANCE
490 GEARY STREET

Phone FRanklin 9400

San Francisco

Filed Dec. 9, '30. Dated Dec. 12, '30.
Payments same as above.....
TOTAL COST, \$2410
Bonds (2) \$1205 each. Surety, Standard Accident Insurance Co. Limit, 200 working days. Forfeit, none. Plans and specifications filed.

GLASS AND GLAZING ON ABOVE.
Contractor—W. P. Fuller & Co., 301 Mission St., San Francisco.
Filed Dec. 9, '30. Dated Dec. 12, '30.
Payments same as above.....

TOTAL COST, \$1642
Bonds (2) \$821 each. Surety, Standard Accident Insurance Co. Limit, 200 working days. Forfeit, none. Plans and specifications filed.

PURNISHING AND INSTALLING complete plumbing work on above
Contractor—Carl T. Doell Co., 467 21st St., Oakland.
Filed Dec. 9, '30. Dated Dec. 12, '30.
Payments same as above.....

TOTAL COST, \$17,536
Bonds (2) \$8768 each. Surety, United States Guarantee Co. Limit, 200 working days. Forfeit, none. Plans and specifications filed.

PAINTING ON ABOVE.
Contractor—Chas. W. Lynds, 1886 Park Ave., San Jose.
Filed Dec. 9, '30. Dated Dec. 12, '30.
Payments same as above.....

TOTAL COST, \$5665
Bonds (2) \$2832.50 each. Surety, Glen Falls Indemnity Co. of Glen Falls, N. Y. Forfeit, none. Plans and specifications filed.

ORNAMENTAL IRON WORK ON above.
Contractor—H. Larsen, Richard Engper and A. Reich (as San Jose Iron Works).

Filed Dec. 9, '30. Dated Dec. 12, '30.
Payments same as above.....
TOTAL COST, \$—
Bonds (2) \$1495.50 each. Surety, Union Indemnity Co. Limit, 200 working days. Forfeit, none. Plans and specifications filed.

LATHING AND PLASTERING ON above.
Contractor—Chas. Terranova, 666 Mission St., San Francisco.
Filed Dec. 9, '30. Dated Dec. 12, '30.
Payments same as above.....

TOTAL COST, \$18,966
Bonds (2) \$9483 each. Surety, Pacific Indemnity Co. Limit, 200 working days. Forfeit, none. Plans and specifications filed.

WINDOW SHADES AND GUIDES on above.
Contractor—McKenley-Glans Furniture Co., 84 E-Santa Clara Ave., San Jose.

Filed Dec. 9, '30. Dated Dec. 12, '30.
Payments same as above.....
TOTAL COST, \$1182.75
Bonds (2) \$591.37 each. Surety, Maryland Casualty Co. Limit, 160 working days. Forfeit, none. Plans and specifications filed.

ELECTRICAL WORK ON ABOVE.
Contractor—Roy Butcher, 1020 Sherwood St., San Jose.
Filed Dec. 9, '30. Dated Dec. 12, '30.
Payments same as above.....

TOTAL COST, \$8648
Bonds, \$4324 each. Limit, London & Lancashire Indemnity Co. of America. Limit, 200 working days. Forfeit, none. Plans and specifications filed.

HEATING AND VENTILATING SYSTEM on above.
Contractor—A. J. Peters & Son, 455 Washington St., San Jose.

Filed Dec. 9, '30. Dated Dec. 12, '30.
Payments same as above.....
TOTAL COST, \$19,435
Bonds (2) \$9717.50 each. Surety, The Fidelity & Casualty Co. of New York. Limit, 200 working days. Forfeit, none. Plans and specifications filed.

FURNISHING HARDWARE ON above.
Contractor—Associated Hardware Co., Inc., 39th St. and San Pablo Ave., Emeryville.

Filed Dec. 9, '30. Dated Dec. 12, '30.
Payments same as above.....
TOTAL COST, \$1984
Bonds (2) \$992 each. Limit, 90 working days. Forfeit, none. Plans and specifications filed.

ALL TILE WORK ON ABOVE
Contractor—W. T. Kawalkowski, C. McGowan and O. A. Anderson (as Art Tile & Mantel Co.), 221 Oak St., San Francisco.

Filed Dec. 12, '30. Dated Dec. 12, '30.
TOTAL COST, \$5950
Bonds (2) \$2975 each. Surety, United States Guarantee Co. Limit, 200 working days. Forfeit, none. Plans and specifications filed.

SHEET METAL WORK ON ABOVE.
Contractor—Superior Metal Products Co., Inc., 4400 Market St., Oakland.
Payments same as above.....
Filed Dec. 9, '30. Dated Dec. 12, '30.
Payments same as above.....

TOTAL COST, \$3635
Bonds (2) \$1817.50. Surety, Glen Falls Indemnity Co. of Glen Falls, N. Y. Limit, 200 working days. Forfeit, none. Plans and specifications filed.

COMPOSITION ROOFS ON ABOVE.
Contractor—W. J. Porter, 1473 W-San Carlos St., San Jose.

Filed Dec. 9, '30. Dated Dec. 12, '30.
Payments same as above.....
TOTAL COST, \$1625
Bonds (2) \$812.50 each. Surety, Indemnity Insurance Co. of North America. Limit, 200 working days. Forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

SANTA CLARA COUNTY

Recorded	Accepted
Dec 1, 1930—LOT 29, Rosedale, Edw J Faltersack et al to whom it may concern.....	November 27, 1930
Dec 1, 1930—NE ALMA ST 100 SE part lots 17 and 18 blk 5 Seale Addn No. 1, Palo Alto, Carl E and Helen Johnson to whom it may concern.....	November 28, 1930
Dec 3, 1930—PART 500 ACRE LOT 26, Gaston Bonnet et al to whom it may concern.....	December 2, 1930
Dec 4, 1930—LOT 7 Adams & Keller Tract, V F Van Dalsen to whom it may concern.....	Nov 26, 1930
Dec 4, 1930—S 90 FT of LOT 55, Buena Vista Subdiv, Mountain View, R L Reagan to whom it may concern.....	December 3, 1930
Dec 4, 1930—LOT 28, Fruit Cannery Tract, P Paparotti to whom it may concern.....	December 12, 1930
Dec 4, 1930—PART LOT 22 BLK 1, South Lincoln Park, Allan H Falconer et al to whom it may concern.....	December 3, 1930
Dec 4, 1930—BLDG ON LOT 4, Orchard Villa Tract, Grace P Knutzen to whom it may concern.....	November 28, 1930
Dec 5, 1930—PART LOT 6 BLK 1, Palo Alto, Frederic Murist et al to whom it may concern.....	December 4, 1930
Dec 8, 1930—1251 YOSEMITE AVE, San Jose, R S Kneeshaw to whom	

It may concern.....Dec 1, 1930
Dec 8, 1930—LOT 14 Alfred Jones Addn, Walter M Stevens et al to whom it may concern.....
December 8, 1930
Dec 8, 1930—LOTS 13 and 14 BLK 1, Thomas Saverker Subdiv, Rosa Centola to whom it may concern.....
December 8, 1930

LIENS FILED

SANTA CLARA COUNTY

Recorded	Amount
Dec 3, 1930—17.61 ACRES, Pt Original Bowdish Tract in Los Gatos Rancho, with exception, Tex Tardy vs May B Sporleder.....	\$204.15
Dec 3, 1930—LOT 16 BLK 32, Seale Addn No 2, Palo Alto, Basil Cain vs Robert Neil.....	\$77
Dec 8, 1930—LOT 1 BLK 1, Pomona Villa; also lots 1 to 4 blk 1 Chris Anderson Subdiv. L J Spatola vs S Pusateri.....	\$75

RELEASE OF LIENS

SANTA CLARA COUNTY

Recorded	Amount
Dec 1, 1930—LOT 37 Baron Park, Palo Alto, Merner Lumber Co to Helen Willaume.....	\$219.39
Dec 2, 1930—N SANTA CLARA ST 76-38 E Autumn St, San Jose, Wm Ehlert to J D Shaw.....	\$50.01
Dec 2, 1930—1.89 ACRES pt Sec 12 Twp 8 SR2 West, S H Chase Lbr Co to Kathryn Burns.....	\$609.54
Dec 4, 1930—1.89 ACRES pt Sec 12 Twp 8 South Range 2 West, Sterling Lumber Co to W A Burns.....	\$349.10
Dec 6, 1930—LOTS 12 and 13 Marten's Subdiv, also 15.29 acres pt lot 14, Marten's Subdiv, Greenwood Lumber Co to Bernardina Fleischmann.....	
Dec 8, 1930—LOTS 4 and 5 BLK 4, Lendrum Tract, San Jose, Henry Cowell Lime & Cement Co to J V Rose et al.....	\$140.23

Partial Release of Liens
Dec 5, 1930—PART LOT A, Paradise Subdiv, The Minton Co to Lillian J Peterson.....

BUILDING CONTRACTS

SAN MATEO COUNTY

DWELLING
LOT 68, Husing Sub. San Mateo. All work for dwelling and garage.
Owner—Carl R. Davidson, San Bruno.
Architect—Not Given.
Contractor—E. Peterson, Berkeley.
Filed Dec. 12, '30. Dated Sept. 15, '30.
Frame up.....\$53
Brown coated.....53
Completed.....53
Usual 25 days.....53
TOTAL COST, \$3412
Bond, none. Limit, 75 working days.
Forfeit, plans and specifications, none.

BUILDING PERMITS

SAN MATEO

BUNGALOW, \$5000; Lot 32, 1025 Baywater; owner and builder, Pete Nipote.
DWELLING, frame, \$5600; Ptn Lot 39 39th Ave. and El Camino; owner, Metropolitan Laundry, San Mateo contractor, Daley Bros., Inc., 1104 Vancouver, Burlingame.

LIENS FILED

SAN MATEO COUNTY

Recorded	Amount
Dec 6, 1930—PART BLK 25, Eastern Addition, Redwood City, C W Buckley, \$596.72; H G Perry, \$180	

Recorded	Accepted
Dec. 10, 1930—PTN LOT 18, Grammar School Addition to Concord.	
F T Troutman to whom it may concern	Dec. 8, 1930
Dec. 11, 1930—TRACT OF LAND ON	

North Side of County Road leading from Concord to Walnut Creek. J J Hansen to A W Schneek..... Nov. 29, 1930
Dec 8, 1930—NW ¼ of SEC 18, 2N 1E containing 20 acres. Stockton Fire Brick Co to Dyer Bros Gold- en West Iron Works (two comple- tions)..... Nov. 14, 1930
Dec. 8, 1930—PIER NO. 3, Carquinez Bridge, American Toll Bridge Co to Healy-Tibbitts Constr Co (con- struction, installation and com- pletion of reinforced concrete fender)..... Dec. 3, 1930
Dec. 9, 1930—LOT 9 BLK 39, City of Pittsburgh. August Sangmino to whom it may concern.....Dec. 8, 1930

RELEASE OF LIENS

CONTRA COSTA COUNTY

Recorded	Amount
Dec. 9, 1930—PTN LOTS 5 AND 6 of Government or Gwin Ranch. James F Mauzy (as W E Mauzy & Son) to P M Sanford.....	
Dec. 10, 1930—LOT in Grammar School Addition to Concord. Mc- Chesney & Richter to Andrew R Brazil.....	
Dec. 11, 1930—LOT 10 in Grammar School Addition to Concord. Lee Harris to Andrew R Brazil.....	

LIENS FILED

CONTRA COSTA COUNTY

Recorded	Amount
Dec. 8, 1930—LOTS 7 and 8 BLK 2, Second Amended Map of Fair- view. J G Bartolomei vs Pietro Castrucci.....	\$110

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded	Accepted
Dec. 12, 1930—S 40 FT. LOTS 3 AND 4, all Lots 5 and 6 Blk 320, Ad- ditional Survey of Martinez. C Arnauud to W Snedgrove Dec. 8, 1930	
Dec. 12, 1930—LOTS 13, 14, 15 AND 16 Blk 14, Richmond Center Tract, Richmond. Harry Parsons to whom it may concern.....Dec. 10, 1930	

LIENS FILED

SAN JOAQUIN COUNTY

Recorded	Amount
Dec. 13, 1930—LOTS 215, 216, 217, 218, 220, 226, Bret Harte Garden, Sub 1, being resubdivision of River Junction Farms, Inc. Hayward Lumber & Investment Co vs Jus- tice Norris.....	\$455.35

COMPLETION NOTICES

SAN JOAQUIN COUNTY

Recorded	Accepted
Dec. 9, 1930—405-409 E MAIN ST. S H Kress & Co to J S Metzger & Sons.....December 8, 1930	
Recorded.....Accepted	
Dec. 15, 1930—FOREST LAKE AND Northerly boundary, County of San Joaquin. Department of Public Works to Clark & Henery Constr Co.....Dec. 8, 1930	

BUILDING PERMITS

STOCKTON

SHED, packing, \$7000; 1024 E Chan- nel St.; owner, Citizens Inv. Co., premises; contractor, Ed. Riley, Wolf Hotel Bldg., Stockton.

BUILDING, one-story, brick, \$8,400; 1514 E Market St.; owner, A. Or- sollini, 1144 E Lafayette St., Stock- ton; contractor, Frank Guyon, 1211 E Main St., Stockton.
BOILER ROOM, \$1000; 640 N Union St.; owner, Stockton Milk Co, 640 N Union St., Stockton.
RESIDENCE and garage, \$3500; 1232 N Ophir St.; owner and builder, T. E. Williamson, 1859 W Park Ave., Stockton.

COMPLETION NOTICES

MONTEREY COUNTY

Recorded	Accepted
Dec. 5, 1930—LOT 2, Sunset Ad- dition, Monterey County. Palmira Morasca to J F Kraus.....Dec. 2, 1930	

LIENS FILED

MONTEREY COUNTY

Recorded	Amount
Dec. 4, 1930—LOT 3-1 as per As- sessors Map of Blk 119, Severance Block Book, Monterey. Frank Carroll and Dan Searle vs J C Anthony.....	\$185
Dec. 4, 1930—LOT 2 BLK 39, Map of Withers' Addition to City of Monterey. Frank Carroll and Dan Searle vs J C Anthony.....	\$60
Dec. 4, 1930—BLK 35, Map of With- ers' Addition to City of Monterey. Frank Carroll and Dan Searle vs J C Anthony.....	\$90
Dec. 6, 1930—LOT 7 BLK 305, Sec- ond Addition to Carmel Woods. M B Wood vs Lillian Remillard.....	\$3153.60

LIENS FILED

SONOMA COUNTY

Recorded	Amount
Dec. 10, 1930—LOTS 1, 2 AND 3 Blk 19, South Park Addition to Santa Rosa. Martin D Eberwein vs Gertrude Chevilier.....	\$75

RELEASE OF LIENS

SONOMA COUNTY

Recorded	Amount
Dec. 9, 1930—LOTS 2, 3, 4, 5 AND 6 Blk C, McBeth, Turner & Welch's Addition to Santa Rosa. Allan F Smith, \$109.32; M Sugar- man, \$50 to Agnes L McCarthy and Frank Scaler.....	

BUILDING PERMITS

SACRAMENTO

ADDITION, \$1000; 2443 C St.; owner, M. E. Perry, 915 29th St., Sacra- mento; contractor, C. C. Ruby, 4800 T St., Sacramento.
REMODEL, \$1800; 1945 Stockton Blvd.; owner, Shell Oil Co., prem- ises.
RESIDENCE, 7-room, \$5000; 2109 9th Ave.; owner, W. B. Phillips, 2101 9th Ave., Sacramento.
RESIDENCE, 6-room, \$5000; 342 Santi Ynez; owner and builder, C. H. Thompson, 3443 Sacramento Blvd., Sacramento.
RESIDENCE, five-room, \$5300; 2634 Land Park Drive; owner, M. E. Perry, 915 29th St., Sacramento.
RESIDENCE, 7-room, \$7500; 3621 Cur- tis Park Dr.; owner, E. A. Corum, 2665 Donner Way.
TELEPHONE partitions, \$1000; 1414 K St.; owner, P. T. & T. Co., premises; contractor, Campbell Const. Co., 800 R St., Sacramento.
RESIDENCE, 7-room, \$6500; 3600 Cut- ter Way; owner, H. C. Martin, 1417 19th St.

COMPLETION NOTICES

SACRAMENTO COUNTY

Recorded	Accepted
Dec. 13, 1930—S 75 FT. OF N 85 ft. Lot 1917 W. & K. Tract No. 24, Sacramento. Charles H and Bertha H H Carter to whom it may concern.....Dec. —, 1930	
Dec. 13, 1930—ONE ACRE IN 90.410 Acre Tract filed by Gardiner Inv Co Feb. 27, 1920. Jewel Gardiner to whom it may concern.....Dec. 1, 1930	
Dec. 12, 1930—W ½ LOT 7, F, G, 14th and 15th Sts., Sacramento. Dorothy P Hark and Charles and Charles Mackrell.....Dec. 5, 1930	
Dec. 12, 1930—N ½ AND E ½ OF S ½ Lot 5 N ½ of E ½ Lot 6, L, M, 8th and 9th Sts., Sacramento. Sutter Club Bldg Assn to whom it may concern.....Dec. 1, 1930	

BUILDING PERMITS

FRESNO

DWELLING and garage, \$5000; 596 Terrace Ave.; owner, J. C. Jones; contractor, J. D. Shorb, 1295 Lin- den St., Fresno.
DWELLING and garage, \$3850; 919 Weldon Ave.; owner, Geo. Leh- man, 371 N 1st St., Fresno; con- tractor, Valley Const. Co.
DWELLING, \$5000; No. 1004 Vassar Ave., Fresno; owner, John P. Mur- phy, 1553 Wilson Ave., Fresno; contractor, A. G. Lampases, Palm Ave., Fresno.
GARAGE and shop, \$2600; No. 717 Van Ness Ave., Fresno; owner and contractor, Golden State Co., 717 Van Ness Ave., Fresno.
ALTERATIONS and additions, \$20,000; P and Mono Sts., Fresno; owner, Fresno Consumers Ice Co; con- tractor, W. W. Williamson, 320 Market St., San Francisco.
DWELLING and garage, \$1000; 1556 Harrison Street; owner, Taylor- Wheeler, Inc.; Power Co. Bldg., Fresno.

COMPLETION NOTICES

FRESNO COUNTY

Recorded	Accepted
Dec. 12, 1930—LOTS 1 AND 2, Knoll Terrace, Fresno. Mark W Busac- ca to whom it may concern.....Dec. 12, 1930	
Dec. 12, 1930—LOT 99 W-Fresno Terrace, Fresno R Klomburg to A R Eklund.....Dec. 11, 1930	
Dec. 9, 1930—LOTS 31 AND 32 BLK 70, Sierra Vista Addition No. 4, Fresno. A J Powell to whom it may concern.....Dec. 8, 1930	
Dec. 9, 1930—LOTS 11 AND 12 BLK 84, Sierra Vista Addition No. 4, Fresno. A Gassman to whom it may concern.....Dec. 8, 1930	

LIENS FILED

FRESNO COUNTY

Recorded	Amount
Dec. 9, 1930—LOT 12 BLK 1, Leona Heights, Fresno. M Volanti vs J B Brase.....	\$75
Dec. 9, 1930—LOTS 14 AND 15, Earl- hurst. F H Smith vs B M Oyer.....	\$25
Dec. 9, 1930—LOT 15, Sequoia Park Sub No. 1, Fresno. F H Smith vs. Fred Gross.....	\$49

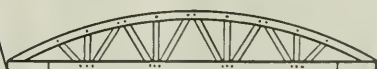


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Thirtieth Year, No. 52

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LOANS FOR SMALL HOMES TEND TOWARD INCREASE IS REPORT

Building and loan associations, holders of \$8,000,000,000 for some twelve millions of individual members, have on hand adequate funds for financing construction of one-family residences in nearly all parts of the country, says The Business Week. The exceptions are the South and two Middle Western states. Demand for such loans ranges from fair to good; is below that of a year ago in many states; tends on the whole to increase. Numerous applications fail to meet standards, are denied.

These are outstanding points drawn from a nation-wide survey conducted by the U. S. Building and Loan League.

Withdrawal of funds is normal, and below a year ago for a majority of associations, but there are important areas where prolonged unemployment is increasing the drain, and the statutory delay is being invoked.

Little New Money

Little new money is coming in. Some states have so much on hand that new funds are not accepted. Collections are slow in many regions. There have been some repossessions but total real estate holdings are less than 1% of loans. Failures have been negligible.

New York reports marked decrease in withdrawals in recent weeks, a slightly better demand for loans, but with many applications considered unsound. New Jersey associations believe they have felt the worst effects of the depression, say that legitimate applications for loans are being accommodated in all cases.

Fewer Bank Loans

Most Pennsylvania associations have more requests for loans than they can meet, due to fewer loans by banks and trust companies. California associations report more new money coming in than they can care for, a growth in assets in the year ended Sept. 30 of 13 1/2% and no embarrassment from withdrawals.

Illinois associations have experienced a decided change for the better in the last month and expect progressive modernization of homes, with some new building, to bring a continued good demand for loans. Funds are generally in excess of loan requirements in the larger Massachusetts communities, inadequate in the smaller centers. Large amounts of funds are available for loans in Wisconsin.

Ohio reports no improvement in a strained situation. Practically no new loans are being made in Alabama, Florida, Indiana, Mississippi, West Virginia, due to inadequate supply of funds or poor demand or both. Southern states generally report conditions ranging from poor to fair.

Byers Machine Co., Ravenna, Ohio, has appointed the Blazer Machinery Co., Portland, Oregon, its distributor in western Oregon and Washington.

COURT RULING ON LIEN VERSUS BOND

Although a subcontractor furnishes a bond which guarantees payment for materials used in the construction of a building, the circumstances may be such that the bonding company is not obligated to pay for the materials used by the sub-contractor, says Leo T. Parker, attorney, in General Building Contractor.

For illustration, in Piedmont vs. Vance, 148 S. E. 858, the owner of a lot leased it to a corporation and the latter contracted to erect a building. A sub-contractor furnished a bond but abandoned his contract. A materialman sued both the principal contractor and the corporation to recover the value of the material used by the sub-contractor in the construction of the building.

During the trial it was shown that the cost for completing the sub-contractor's work exceeded the balance due on the sub-contract. Therefore, the Court held the materialman not entitled to a lien on the building, saying:

"The policy of the lien law is to protect sub-contractors and laborers against loss for labor done and materials furnished in building, repairing, or altering any house or other improvement on real estate, to the extent of the balance due the original contractor at the time of notice to the owner of claims therefor; but it is not provided that the owner shall be liable in excess of the contract price, unless he continues to pay after notice of claim from the sub-contractor or laborer, and then only to the extent of such payments after notice."

ALAMEDA A. G. C. ELECTS OFFICERS

W. G. Thernally, S. G. Johnson, Roscoe Littlefield and Ted Griffin, at the general meeting of the Alameda County Chapter, Associated General Contractors of America, were elected directors to serve for the next year term. It is announced by Wm. E. Hague, manager of the Chapter.

The new board elected W. E. Lyons, president; S. G. Johnson, vice-president; H. J. Christensen, secretary-treasurer and Wm. E. Hague, manager.

Lyons was re-elected president in view of the splendid service he rendered the Chapter during 1930.

The Chapter has extensive plans under way for stabilization of credit in the building business next year. The material dealers are co-operating in this movement and the co-operation of all units financially interested in building operations is to be sought.

The Contractors License Law, qualification of bidders and many other important matters are on the program of the Chapter for close attention during the coming year.

PROTEST USE OF OUTSIDE LABOR IN SAN MATEO COUNTY

"The local skilled mechanics, such as the carpenter, plasterer, etc., hasn't a chance with the outside contractor who undertakes a building job in this county. The outside contractor won't give up to the local wage scale, but instead brings in men from elsewhere who are willing to work for less."

Thus asserted Mayor W. H. Weeden of Menlo Park, a builder himself before a meeting of a special committee of the county committee for the Relief of unemployment, at Redwood City, when a program was outlined to urge the use of local workmen on all building projects in the county.

Mayor Weeden attributed the present critical unemployment situation in San Mateo county, particularly as far as the building trades are concerned, to this:

"Hundreds of skilled workers with families who make their homes in this county are idle because the outside contractor hires men who'll work under scale," he said.

He was backed in his assertions by J. A. Brogan of San Mateo, business agent of the San Mateo Building Trades Council, and J. F. Conhano, representative of the San Mateo Carpenters' Union.

Brogan told the committee that approximately 55 per cent of the building trades mechanics in the county are out of work at the present time.

PRIZE AWARDS FOR STEEL BRIDGE DESIGNS

Prizes aggregating \$1700 are being offered by the American Institute of Steel Construction for the best design of a steel bridge.

There will be two competitions each having a first prize of \$500, a second of \$250 and a third of \$100, one given to engineering students and the other to architectural students. The first will be judged by a national jury of engineers and architects and is open to any engineering student attending a school or college in the United States or Canada. The second will be held through the Peaux Arts Institute of Design.

The problem is a monumental bridge of restrained simplicity, such as would be erected over a navigable river within the extreme limits of a city of approximately 100,000 inhabitants. It will be 80 feet wide including two sidewalks of 10 feet each and a total length of 175 feet. The approaches for a distance of 15 feet would represent retaining walls and abutments. Night illumination would be provided for.

This is the third annual student competition held by the American Institute of Steel Construction. Previous competitions of this nature have enlisted the interest of hundreds of students and have developed many bridge designs of remarkable aesthetic appeal.

BASIC PRINCIPLES OF CONCRETE MAKING COORDINATED

By Joseph A. Kitts
Consulting Concrete Technologist, San Francisco

2. Making Concretes for Modern Needs is a Technological Manufacturing Process.

Article No. 1 (appearing in these columns Nov. 17, 1930), under the title "Absolute Volume, The Basic Measure of Ingredients," introduced the modern thought expressed by this title at the most fundamental law of concrete mixtures.

It was shown that lack of appreciation of this absolute volume fundamental—the use, down the ages, of an indefinite measure of ingredients, bulk volume, including the variable air space between particles—accounts for the facts: (1) that today's most troublesome construction problem is how to make good concrete; (2) that, despite millions of dollars spent in modern concrete research, the fundamental principles of mixtures are not fully established and generally accepted matters of engineering knowledge; (3) that the fragments of fundamental principles of mixtures discovered by individual workers in concrete research have not been coordinated heretofore; (4) that current engineering knowledge of concrete making is inadequate for modern requirements because the fundamental facts of mixtures have been obscured by the error of this ancient bulk volume measure; and (5) that failures in the use of concrete continue to occur, despite the most scrupulous and well intentioned engineering care, because the principles of mixtures are not wholly understood as a result of this ancient heritage of the bulk volume as the basis of measure.

As a corollary of this approximate measure of ingredients, there could be no exact technological process of concrete manufacture; the specified proportions of ingredients have necessarily been approximate and, accordingly, the greater volume of concrete produced today is specified in various arbitrary ratios, 1:1.2, 1:2.4, 1:3.6, 1:3, 1:6, 1:9, etc., by loose-moist or dry-rodded bulk volume, or by weight, before the ingredients to be used are decided upon. A more modern procedure has been to send a few cubic feet of the materials to a laboratory for chemical and physical analysis, and determination (by Thacher, Fuller or other theory) of proportions for a satisfactory grading and quality and then, a thousand or a hundred thousand cubic yards of concrete is made in designed proportions such as 1:2.23.8, etc., assuming, subsequent uniformity of the materials as per samples. The most recent procedure of wide application has been to maintain the fineness of grading of the aggregate and the water-cement ratio in accordance with the Abrams fineness modulus principle and water-cement-strength law, sponsored by the Portland Cement Association. None of these procedures has been complete as a technological process of concrete making adequate for modern needs.

The most nearly complete technological process of concrete making generally known is that of the Portland Cement Association based on the Abrams water-cement ratio and fineness principles as presented by Abrams in "Design of Concrete Mixtures," first published in the Minutes of the Annual Meeting of the Portland Cement Association, December, 1918, and elaborated in "Design and Control of Concrete Mixtures," published by the Association, January, 1927. This work is the result of hun-

dreds of thousands of experiments and research tests by the Association subsequent to September, 1914. While this development of the water-cement and fineness modulus principles has been the most important accomplishment in concrete research, it has met an impasse due to lack of appreciation of the absolute volume as the basic measure of ingredients. Until divorced from the dry-rodded bulk volume basis of measure of aggregates, it will have many limitations of impracticability. However, the half million or more experiments by the Association have supplied a great fund of data which has paved the way to the discovery and coordination of laws of proportioning complementary to the water-cement-strength law; and a complete, simplified and expedient technological process of concrete making is now available for the first time in the history of concrete.

Before going into the details of principles and their coordination, it should be appreciated that the making of strong and durable concrete, with economy, for modern requirements, is a manufacturing process and not a haphazard matter of 1:2.4 etc., as handed down from antiquity.

Production A Manufacturing Process
Consideration of the general requirements of concrete, the complex elements affecting quality, the many special purposes, and the economics of quality and efficiency in production, will show that the production of concrete of quality with economy is a complex manufacturing process demanding technological skill and special facilities of plant and laboratory. These considerations also show that there is no simple formula for the production of concrete of quality any more than there is for cement, steel, or other structural products.

Concrete Defined
"Concrete" embraces the product of various mixtures of fine particle aggregates, hydraulic cements, fresh water, and admixtures, in innumerable possible combinations, which, after being placed in the mold or forms in a plastic or fluid state, harden under water or in air into artificial stone. The resulting concretes have as many different physical characteristics (workability, flowability and cohesion in the fresh mix, and strength, density, etc., in the cured concrete) as there are combinations. Concretes of definite qualities are made only by definite technological processes, and the general problem of making good concretes, for many purposes, of many types of materials and with fundamental economy, is a comprehensive and complex one in the many conditions to be evaluated. We may have any maximum size of aggregate up to 12 inches in diameter, any proportion of cement, a wide range of water content, any degree of consistency or flowability from dry and stiff to wet and sloppy, and any strength up to 10,000 lbs. or more per sq. in. at a given age.

Concretes of definite qualities, in consistency of the fresh mix, strength, density, impermeability, texture, etc., must have definite structures of mix in definite absolute volumes of the cement and water and of aggregates of various diameters, and these qualities and basic mix structures must be predetermined by tests with the given types of aggregates and cements and sustained by technological processes as the materials vary from day to day. A specific concrete is described, in

general, by three given requirements:

- (1) Maximum size of aggregate;
- (2) Workability (Slump or flow);
- (3) Compressive strength at a given age;

And, in particular, by two additional requirements:

- (4) Type (or brand) of cement, and
- (5) Type of aggregates.

Many Characters of Cements

Concretes are made with many kinds of hydraulic cements; hydraulic lime, natural cement, puzzolan cement, normal portland cement, high-early-strength portland, super-portland, slag cement, bauxite cement, etc. While the principles of mixtures are the same for all cements, the resulting physical values of the concretes are widely different for the same cement contents. (Normal standard portland cement will be meant, herein, unless otherwise stated.)

Types of Aggregates Innumerable

The natural aggregates used for concrete are sand, gravel, crushed rock, volcanic cinders, coral, etc. Artificially prepared aggregates are crushed brick, blast furnace slag, coal cinders, crushed and burned shale, etc.

The natural aggregate may be igneous, sedimentary or metamorphic rocks and, in the case of gravel, the natural deposit may be various combinations of these three general classes of rocks.

The number of size separations of aggregates used to make a particular mixture may be one or more; two to four sizes are generally used and, for 12 inch maximum size, from eight to twelve sizes have been used to advantage.

Aggregates from a given source and plant vary from day to day in fineness, specific gravity, density, moisture content and absorption. Measured proportions for concrete today give poor results tomorrow, because of these changes.

With a given cement content and water-cement ratio, the strength, density, impermeability, durability and workability of the resulting concretes vary widely with the shape, grading, maximum size and the peculiar physical and chemical characteristics of the various classes of rocks.

Many Admixtures

Admixtures of various earths, minerals, chemicals, oils, emulsions, etc., are used in concrete to increase workability, flowability and cohesion, to accelerate or retard setting, as waterproofing, as hardeners, or as cures. Many admixtures have merit in one or more respects and all are harmful unless used with an understanding of their purposes, qualities, limitations, permissible quantities, etc.

Many Qualities Required of Concrete

The essential characteristics of concrete, determining the technological processes, are as enumerated in the following, the relative importance of each depending upon the particular use:

1. Durability:

Concrete must be composed of such ingredients and in such definite proportions that it will have, with due regard to the conditions of use, resistance to ice, fire, salts, liquids, gases, wear, stress, etc.;

2. Impermeability:

The essential quality of concrete for marine and hydraulic structures is impermeability to fluids. Impermeability is important in the protection of steel reinforcing. Durability is

largely dependent upon impermeability.

3. Strength:

Structural concrete must have elastic resistance to flexural and compressive stresses of various definite predetermined amounts per square inch. Resistance to wear is largely dependent upon the strength.

4. Density:

Concrete of the maximum workable density of solids has the optimum of weight, strength, impermeability and durability in proportion to cost.

5. Uniformity:

Uniformity of quality can be obtained only by uniformity of mix structure. Uniformity of texture is essential in architectural concrete.

6. Workability, flowability and cohesion in the fresh mix:

Concrete must have a workability, flowability and cohesion in the fresh mix suitable for the conditions of use. This means adequate cement and water and a proper uniformity and fineness of grading of the mixed aggregate.

7. Economy:

Economical concrete is that which has values in strength, durability, etc., adequate for the purpose and sufficient to make a proper return on the investment.

Saving of cement by the making of mixtures too dry for the conditions of use and necessitating an excessive expenditure of labor in placing and patching, is not economy. On the other hand, extravagant and inefficient use of cement, which permits of no return on the investment, is not economy, and the money so expended never buys another yard of concrete, barrel of cement, or day of labor. Comparison of results will show that economical concrete is obtained by employment of efficient materials, efficient production equipment, skilled workmanship and technological skill in control of production. Concrete, of a given strength, made with modern technological manufacturing skill, requires additional cement and costs from \$0.15 to \$0.30 more per cubic yard, the additional cost increasing with the strength required.

Excepting in the unusual case, the concrete having the best quality for the purpose is the most economical and, likewise, that having the best quality in proportion to its cost is generally a concrete of the optimum qualities for the purpose. As an example, normal standard portland cement concrete having the greatest strength in proportion to its cost is that having a strength between 3000 and 4000 lbs. per sq. in., and, using that strength as a basis of structural design, savings of \$0.03 to \$0.25 per total square footage of floor area are effected as compared with usual design for 2000-lb. concrete. Further, 3000-4000-lb. concrete is more economical to handle and has the optimum qualities of durability, strength, elasticity, impermeability, density, and shrinkage in setting, and minimum of plastic flow under stress and of expansion and contraction by moisture variation.

The evidence is quite clear that fundamental economy in the use of concrete lies in improvement in quality by improvement in manufacturing processes. Just as cement has been made more economical and improved in quality by better technological facilities of manufacture, so is concrete being made more economical.

Special Requirements of Concrete

The special requirements of concretes for various purposes, demanding technological manufacturing processes, are as follows:

Structural Concrete: Greatest compressive strength in proportion to cost of materials; the best workability, flowability and cohesion in the fresh mix; small maximum size of aggregate.

Plain Gravity Structures: Optimum weight and compressive strength in proportion to cost of materials and placing; large maximum size of aggregate; plastic consistency.

Plain Gravity Structures (Hydraulic): Optimum weight, density, and compressive strength in proportion to cost of materials and placing, large maximum size aggregate, preferably igneous; initial flowing consistency.

Plain Arch Dams: Greatest compressive strength in proportion to cost of materials and optimum conditions of strength, density and impermeability; preferably igneous aggregate; initial flowing consistency.

Plain Pavements: Greatest flexural strength in proportion to cost; wear resistance; plastic consistency.

Reinforced Concrete: Greatest compressive strength in proportion to cost of materials; impermeability; wear resistance; plastic workability.

Marine Structures: Optimum strength, density and impermeability in proportion to cost; igneous aggregate; initial flowing consistency in tropical climates.

Pressure Pipe: Optimum conditions of tensile strength, density, and impermeability in proportion to cost; small aggregates; igneous; optimum workability, flowability and cohesion.

Architectural: Optimum strength, density, uniformity and texture; small maximum size aggregate, specific rocks; optimum workability, flowability and cohesion.

Elements Affecting Quality

The accomplishment of these requirements depend upon evaluation of the following elements affecting qualities and characteristics of the concrete:

Cement quality and content, chemical and physical characteristics;

Water to cement ratio;

Lithologic quality, shape, maximum, minimum and average sizes of aggregate particles, specific gravity, moisture content and absorption;

Uniformity and character of grading of the mixed aggregate;

Cement to voids in the fine and in the mixed aggregate;

Sand and mortar to voids in the coarse aggregate;

Accuracy of the absolute volume measurement of aggregates, cement and water;

Time and efficiency of mixing;

Consistency, workability, flowability and cohesion of mix;

Workmanship in measurement, mixing, placing and curing;

Moisture and temperature of curing;

Practical and technical manufacturing control on the job as required by the foregoing variables; and

Practical and technical basis specifications making essential provisions for the foregoing.

Preliminary, Control and Research

Tests Essential

Given any set of materials and a project requiring concretes for various purposes, preliminary studies must be made of basic mixtures of same before satisfactory mixtures can be determined. Basic mixtures so determined, must be sustained during production by constant testing of the materials and readjustment of the measured proportions as the physical characteristics of the materials vary. Special materials and special requirements require special research tests and studies. The ever-changing demands require constant research as a normal operation of concrete production.

Scope of Concrete Research

Considering the whole gamut of practicable mixtures, it is readily seen why there is no simple absolute formula of mixtures such as 1:1:1, water-cement ratio, etc. With a given kind and maximum size of aggregate, a given cement, and a given slump or flow of mix, there is an equation for

the cement for any strength, related to an equation of the water content, related to an equation of the fineness modulus of grading, related to an equation of the yield of combinations. The abstract equations $\log C = B \log K + A$, $W = FCIG - \log B K$ and $f.m. = D \log C - E$ are basic laws of concrete mixtures, in which C = cement content, W = water content, $B K$ =

strength of concrete, $f.m.$ = fineness modulus and A, B, C, D and E are constants, for given set-ups of aggregate, cement, maximum size and consistency, and, variables for varying set-ups.

Appreciation of the enormous task which has confronted concrete research in the past, in the determination of the laws of mixtures, is convincing proof of the technological character of concrete making, shows the involved and abstruse difficulties of the exploration, and accounts for the groping progress.

In order to determine the effect of change of cement content, for example all other effects must be held constant. Likewise the determination of effect of maximum size of aggregate, of fineness modulus, of consistency, etc. In order to determine the mathematical curve of cause and effect, we must have at least four values of cause and four corresponding values of effect. Taking the simple case of a given type of cement and aggregate,—determination of the effects of maximum size of aggregate, fineness modulus, cement content and consistency, required for mixtures with four different maximum sizes of aggregates, four different gradings of each, four different cement contents of each, and four different consistencies, a total of 256 mix combinations. This may be multiplied in turn by the number of types of aggregates, the number of types of cement, of admixtures, of mixing time, etc., which may make a total of 20,000 or 50,000 mixtures. Determinations of yield, W/C, S/C, Weight, Strength, Density, Equations of Cement Content, Fineness Modulus, Water Content, etc., may amount to 500,000 determinations. As a matter of fact the Portland Cement Association has a record of about a quarter million of experiments, including a number of determinations in each.

Knowing the laws of the cement content, of the water content, of the fineness modulus, of the maximum size and of the yield of combinations, 16 mix combinations are required instead of the 256 mentioned preceding.

Commercial Central Plant Production

The industry of making concrete at central plants is, on the face of it, a manufacturing industry. The daily problem of technological control is to produce concretes of a number of a different maximum sizes of aggregates, of a number of definite strengths, of a number of definite consistencies and of correct yield. The tolerance of strength must be various. Slump must be within $\frac{1}{2}$ " and yield within one-half of one percent the first load delivered; and trial methods are impracticable and inadequate.

Will Encourage Research

Appreciation of this evidence that the making of concrete for modern needs is a technological manufacturing process will encourage concrete research and do much to improve the cement and concrete production industries.

Agreement of F. T. Webber of the Oregon Insurance Rating Bureau to form a new code on the protection of exterior wall openings that may be submitted to the sheet metal interests for approval, was obtained at a recent meeting of nine representatives of the sheet metal trades in Portland.

THE OBSERVER

What He Hears and Sees on His Rounds

A severe test of electric welding in building construction is to be given in the erection of the one million dollar manufacturing building begun for the Pittsfield plant of General Electric Co. More than 55 ft. long, 150 ft. wide, and 70 ft. high, it will probably be the largest all-welded structure of its kind. The entire building will be of steel and glass on a concrete foundation. Welded steel pilasters will replace the conventional brick type. A welded steel blanket covered with waterproof compound will form the roof.

The Pine Bluff (Ark.) Commercial has barred from its columns such expressions as "financial depression," "business depression" and "hard times."

"The United States has been completely sold on the depression," an editorial by W. B. Sorrells, Jr., managing editor, said. "One year ago it was a mild cessation of business. Today it is just what the name implies—depression. Millions of words already have been written in an effort to comfort the hating public. But the reaction has been just the reverse. We have done our part in the past 12 months in reminding you that we have a depression. But now we renege. As far as the columns of this paper are concerned, there is no depression."

When New York City assessed a water charge of \$2.50 a year for each mechanical refrigerator using running water in its operation, the rule seemed a damaging point against Electrolux, the gas refrigerator, as opposed to electrical refrigerators. Electrolux, however, made capital of the matter by running full-page advertisements headed "New York City confirms economy of water used in Electrolux refrigerator." The copy emphasized that the charge was only two-thirds of a cent a day.

Salinas city council is considering adoption of an ordinance making employment of local labor mandatory. City Attorney Russell Scott has been directed to secure sample ordinances which will be given a thorough study with a view to adopting such a measure.

A revised plumbing ordinance will be considered shortly by the Sacramento city council. Details of the new measure are said to be satisfactory to plumbers and contractors. The ordinance requires an annual fee of \$30 from all plumbing contractors. It sets up an inspection fee of 25 cents for every gas outlet and 50 cents for installation, extension or alteration of house gas pipes. Elaborate regulations covering the installation of new gas appliances in homes already constructed are included.

Contrary to the belief of a majority, the mere fact that a contractor furnishes material and labor to a tenant who improves leased property does not always entitle the contractor to a lien particularly if the owner did not acquiesce in making the improvement. So held the higher Court in the late

case of Stevens vs. Stamm, 152 S. E. 602, says Leo T. Parker, attorney, in General Building Contractor.

Here it was disclosed that a tenant, who had leased property, engaged a contractor to perform work. The contractor purchased material and proceeded to fulfill his contract. When the owner refused to pay the amount due a mechanic's lien was filed. Since the owner did not agree to having the improvements made the Court held the lien void, stating the following important law:

"The mere knowledge of the landlord that the improvements are being made by the tenant is insufficient to charge him or his premises with their cost. He must either expressly or impliedly authorize the tenant to make the improvements for the former's benefit."

The Cement Contractors' Association of Southern California has adopted a uniform cement work bid form which is to be used by all the members in submitting bids to the general contractors and others for flat cement work.

The most expensive lumber on the market today, says the U. S. Forest Service, is the wood of the yew tree. Archery experts agree with Robin Hood of Sherwood Forest and with the English bowmen who defeated the armored chivalry of France at Crecy and Poitiers over 600 years ago, that the yew furnishes the most ideal material for bows. Basing estimates on the cost of a stave 2 by 2 inches thick and 6 feet long at \$10, the value per thousand board feet would be \$5000, or fifty times the price of California's choicest sugar pine lumber.

November production of the Portland cement industry was 21 per cent under the corresponding month in 1929, amounting to 11,098,000 barrels. Shipments were off 21.7 per cent from 1929 to 7,784,000 barrels. Stocks at the end of the month were 23,011,000 barrels, 26.3 per cent above those of November last year.

The cost of building is lower at the present time than it has been at any period for five years and a resumption of new construction activity in the Greater Oakland area already noticeable is anticipated throughout 1931, according to a bulletin issued by the Oakland Real Estate Board. Occupancy surveys now under way covering the entire Eastbay district indicate that the surplus of housing and floorspace in most classes of property, created by the abnormal building activity of 1922 to 1926, has been absorbed, the board reports, and for many types of buildings throughout the most of the community a normal occupancy status exists.

Ways and means of reviving local building work and the necessity for the early commencement of work on proposed city and county building projects to relieve unemployment conditions, was discussed by members of the Fresno Builders' Exchange at their monthly meeting last week.

Builders, contractors and architects stressed the fact that building ma-

terials and real estate are now at the lowest prices in years and also urged Fresnoans to repair and paint old buildings to furnish employment for scores of skilled workmen who have been without work for months.

Fred Swartz, architect for the new \$250,000 addition to the county general hospital, reported that county bonds will be sold next month and bonds will be sold next month and to start work at the earliest possible date.

California highway expenditures totaling \$63,322,500 for the next two fiscal years, are recommended in a budget prepared by Bert B. Meek, State Director of Public Works, and approved by vote of the State Highway Commission. The commission announced this budget will be transmitted to Governor Young and the State Department of Finance.

(Continued on page three)

Ohio's state highway department, this year, has inaugurated the policy of letting contracts for highway maintenance, thus departing from the traditional practice of handling this type of work by day labor with its own forces. The first awards on bids received last April covered the sealing of cracks and joints in 1903 miles of concrete pavement. Bid prices were below the engineer's estimate on each of the ten contract sections, the average cut being about 25 per cent.

Public works to be undertaken by the government in the calendar year 1931 will total approximately \$700,000,000 compared with \$253,000,000 in 1928. This figure includes that part of the fiscal year, 1931, from January 1, 1931, until July 1, 1931, and the 1932 budget up until January 1, 1932. The work is distributed among the emergency unemployment relief bill of \$116,000,000 and the regular appropriation bill.

W. J. Serrill, retiring president of the American Standards Association, at the annual meeting of that body, reported the association's completion of 46 new national standards in the fields of mechanical, civil, chemical, and electrical engineering and in mining, woodworking, and a number of other industries. These include a number of safety codes which are being used by regulatory bodies, insurance groups, and industry as the basis for nationally uniform methods of safeguarding the lives and health of workers.

The action of the Water Board of Grants Pass, Oregon, in rejecting the low bid on a set of water mains in order to give the contract to a local firm was protested by the Portland Chapter of the Associated General Contractors as unfair to the publicly invited responsible bidders from out of town. The chapter pointed out that the out of town bidders had hazarded the expense of investigating the project and had taken the pains of making accurate bids and that the action of the board was an unwarranted expense to the intending bidders. Members and associate members of the chapter have been warned of this occurrence by Mr. George B. Herington, secretary of the chapter, who urges that before submitting bids on future work they ask the city authorities and Water Board to state in writing if the award of contract will be made to the responsible low bidder among those making tenders on the work.

TRADE NOTES

Gypsum Association, 211 West Wacker Drive, Chicago, Ill., has opened a district office at 11 West 42nd St., New York City, in charge of J. Kent Smith, district engineer.

John A. Roebbing's Sons Co., Trenton, N. J., on January 1 will take over the business of the New Jersey Wire Cloth Co., a subsidiary. On that date that corporate existence of the latter company will cease.

The board of directors of the Calaveras Cement Company has declared the regular quarterly dividend of \$1.75 a share on the 7 per cent cumulative preferred stock, payable January 15 to stock of record on December 31.

Universal Stucco Co. of Calif., Ltd., with headquarters at Reno, Nevada, has filed articles of incorporation with the county clerk in Los Angeles. Directors are A. Murtaugh, Samuel Platt, John S. Sinal, J. N. Guinn and V. Friesen, all of Reno.

Stromberg Electric Company has established a district office and display stock at 7 Front St. to serve Northern and Central California. The concern, whose headquarters and factory is located in Chicago, manufactures a line of electrically operated time equipment. R. E. Peters is manager of the division office.

Information for estimating the requirements of prospective water supply customers and instructions for installing shallow or deep well systems, are contained in a 32-page booklet just published by the George D. Roper Corporation, Rockford, Ill.

Santa Cruz Portland Cement Company has declared an extra dividend of \$2 per share on the company's common stock, payable December 24 to stock of record December 19, in addition to the regular quarterly dividend of \$1 per share which is payable January 1 to stock of record December 19.

GOTT NAMED CHIEF OF TRADE DEPARTMENT

Philip P. Gott has been made manager of the Trade Association Department of the Chamber of Commerce of the United States, succeeding Hugh P. Baker, who resigned to become dean of the New York State College of Forestry. Mr. Gott has been acting manager of the department since Dr. Baker's departure September 1. He joined the Chamber as assistant manager in 1928, shortly after the Trade Association Department was established. The Trade Association Department was created to further the Chamber's promotion of trade association work. Mr. Gott has been engaged since coming with the Chamber in this effort, carrying on a number of studies and activities in this general field. Mr. Gott has had a wide trade association experience, having been manager of a number of organizations in the building industry. He holds membership in the American Statistical Association, the American Academy of Political and Social Science, the American Trade Association Executives, the Kiwanis Club and other organizations.

HERE—THERE EVERYWHERE

G. E. Kimball, electrical engineer of the California State Industrial Accident Commission, was elected president of the California Safety Society at the annual dinner-meeting held in the Palace Hotel last Tuesday evening. R. E. Donovan, safety director of the Standard Oil Company, retiring president, presided at the meeting.

Other officers elected to serve for the ensuing year are: Vice-President, A. J. Lamle; Secretary, A. G. Anderson; Treasurer, A. F. Belmke; Librarian, N. C. Sagan; Chairman, Board of Control, E. W. Bullard.

National Lumber Manufacturers Association, through its executive committee, has approved a budget approximating \$1,000,000 for activities during 1931. Items for which this money will be spent include research, field promotion work, educational promotion, building code service and advertising.

The annual meeting of the Northwest Furnace Builders will be held at Milwaukie, Ore., December 30. It is announced by Clancey M. Lewis, secretary.

Prof. Walter Irvine Silchester, head of the department of electrical engineering in Columbia University, has been elected treasurer of the American Institute of Electrical Engineers. He succeeds George A. Hamilton, one of the pioneers of the electrical industry, who occupied the post for thirty-five years. Mr. Hamilton was with the Western Union Telegraph Company from 1875 to 1889, and with the Western Electric Company from 1889 to 1903.

Merrill Stoddard, Reno, Nevada, lumber mill operator, was arrested in that city last Saturday on a charge of arson, resulting from a fire which destroyed his lumber yard in Reno, November 12, with damage estimated at \$75,000. He is being held in jail unable to furnish bail of \$10,000. The complaint, signed by Police Chief Kirkley, alleges that Stoddard set fire to his lumber yard.

Utilization of natural resources and economic problems of western reclamation will be discussed by members of the American Society of Agricultural Engineers who will meet in convention in San Francisco on January 6 and 7. Sessions will be held at the Hotel Whitcomb and addresses will be made by B. B. Meek, State Department of Public Works, and George W. Malone of Nevada, a member of President Hoover's committee on conservation.

A. F. Foulter has been named manager of the Bear Gulch Water Company by the regents of the University of California. Mr. Foulter, a graduate of the College of Civil Engineering in 1927, has been an engineer in the department of grounds and buildings at the university since that time. He succeeds the late E. Britton. He has been working on problems of the Bear Gulch Water Company at Menlo Park for the past two years and is familiar with the properties, system and operation of the company.

TRADE LITERATURE

A new 96-page catalog of the Ohio Gear Company, 1213 E. 10th Street, Cleveland, Ohio, gives a full information on the company's stock gears and brings together in standard pocket-size form formulas and information on the design and adaptation of gearing and reduction units of various types to meet particular requirements. A simple method of figuring weight of triangular, octagonal and other sectional bars of various materials is included.

A catalog recently brought out by the All-Steel Equipment Company, Aurora, Ill., contains illustrated descriptions of a complete line of cut-out boxes, flush cabinets, pull boxes, wiring troughs, special boxes, fuse caps, and guttered and weatherproof cabinets.

"Falcon," electrically heated vertical coating tanks for asphalts, tars, compounds, oils, varnishes and similar substances are described in Bulletin No. 22 of H. O. Swoboda Co., 3409 Forbes St., Oakland Station, Pittsburgh, Pa. The tanks are designed for the coating of large pipes, culverts and similar products.

"How to Get a Job in Engineering," by Francis W. Wilson, is the title of a booklet now being distributed by the Wilson Engineering Corp., Cambridge, Mass., at 50c per copy. This contains 79 pages of pertinent advice on securing employment and is written with particular reference to the engineer or draftsman in search of a job. While the methods outlined are by no means new, the logical and clear way in which they are described should make the book of real assistance.

The importance of proper cleaning before the application of coatings to pipe lines is thoroughly discussed in a 32-page illustrated booklet, "How to Add Years to the Life of Steel Pipe Lines," published by the W-K-M Co., Inc., Houston, Tex.

Bulletins have been issued by the Sullivan Machinery Co., 400 N. Michigan Ave., Chicago, Ill., describing the following pieces of equipment: models 10 and 50 diamond core drills, model L-6 rotator rock drill, Turbular portable hoists and the Sullivan Cathed, a pump operated by compressed air or steam. "Core Drilling by Contract" is another publication describing the service rendered by the drilling department of the company in the making of test borings and mineral prospecting.

An illustrated bulletin L-4-C-BL has been prepared by the Worthington Pump and Machinery Corporation, Harrison, N. J., to acquaint equipment users with the characteristics of the Multi-V-Drive for industrial reductions.

Catalog No. B-4s now being distributed by the Rorer-Smith Company, 231 Broadway, New York, covers the entire line of the company's dynamometers and their multiple switchboard type instruments and accessories.

Fred Moody of San Francisco, member of the California State Highway Commission, has submitted his resignation to Governor-elect James Rolph. The resignation is effective when Governor Young retires from office.

ASPHALT INTERESTS FIGHT "LEGAL GRAFT"

A movement to control graft in public construction work gained ground at the ninth annual meeting of the Asphalt Paving Conference held at Memphis, recently.

Its author, Arthur H. Blanchard, consulting engineer of Toledo, said the program would follow that practiced by insurance firms when they outlawed rebates of premiums.

Namely a law demanding that books of construction companies, machinery and equipment builders be opened for public inspection, will be avoided. The companies, he said, favor the passing of the statute.

Where it is shown that payment had led to awarding of contracts, he said, prosecution will be demanded.

Blanchard estimated roughly that this form of "legal graft" amounts to \$10,000,000 yearly, which is one-tenth of the annual construction bill of the United States.

This amount, he explained, is added to construction costs now by concerns bidding for the work.

Blanchard maintained that most of this money was being paid to commissioners, county and city board and state authorities who are in charge of awarding contracts. He told of a situation in a Rocky Mountain town where a city engineer was dismissed by the council when he favored a firm contrary to the council's wishes. The engineer favored the firm which could do the best work, Blanchard explained, the council the firm where favors has been presented councilmen.

AGRICULTURAL ENGINEERS TO MEET IN JANUARY

The annual winter meeting of the American Society of Agricultural Engineers, Pacific Coast Section, will be held in San Francisco January 6 and 7, according to announcement of W. W. Weir of the Irrigation Investigations division of the department of Agriculture, which has charge of the program. The sessions will be held in the Whitcomb Hotel.

Among the speakers who are to appear on the two-day program are A. B. Meek, director of the California State Department of Public Works; George W. Malone, state engineer of Nevada and member of President Hoover's committee on conservation and administration of public domain; M. A. Schnurr, assistant to Dr. Elwood Mead, commissioner of reclamation; Lewis A. Jones, senior drainage engineer in charge of soil erosion, of the United States Department of Agriculture, and John W. Hay, director of the agricultural development department of the Northern Pacific Railway.

The meeting is in charge of the reclamation section, and will be given over largely to discussions of reclamation problems. At the banquet session on the first day's program, Prof. Charles F. Shaw of the University of California will speak on "Reclamation in China."

An architect is anxious to procure a metal door to mount on a Dimmer Cabinet that sets flush with the wall; that will be neat in appearance and yet give ventilation or allow the circulation of air through the cabinet. He has in mind a door similar to the louvered ventilator type doors as used on steel lockers. The opening in question is approximately 20 1/2 inches square. If interested advise Service Department, Daily Pacific Builder, Garfield 8744.

STATE PLUMBING ACT HELD LEGAL

Ruling that the state plumbing act is legal, Superior Judge S. L. Strother of Fresno refused to grant writ of mandate which would force City Commissioner of Finance William Glass to issue a master plumber's license to H. H. Cobb and Charles Lee Jr., operators of the Bellvue Hardware Company. The petition for the writ of mandate was filed by Cobb and Lee, after Glass had refused to issue them a license, acting upon the theory that they had failed to take the Board of Health examination.

The city ordinance under which all plumbers in Fresno are required to obtain either master or journeyman licenses from the city is based upon the state law and hinges upon the action of that law. The state law provides that before plumbers can be licensed they must pass a satisfactory examination to be given by the health officer or the board of health.

Cobb and Lee failed to take the health board examination, holding that the state law was indefinite and it could not be determined exactly what a satisfactory examination is. They applied to Glass for the master plumbers' license and were refused when they failed to show proof that they had passed the state examination.

Through their attorney, Arthur Allyn, they petitioned for the writ of mandate which has been refused. They alleged they had performed all that was required of them, including the posting of the required bond of \$2500, excepting that they had failed to take the test. The act requiring that the test be held was not constitutional, they alleged.

Glass, through City Attorney Claude Rowe, in combating the petition for the writ of mandate, contended that the act was constitutional and was a part of the state's police power.

PSUEDO ARCHITECTS ARE GIVEN SENTENCES

The granting by the Board of Architectural Examiners, Southern District, of six new licenses during October increased the total of licentiates operating under this board's jurisdiction to 706. This total was reduced, however, with the cancellation of 21 existing licenses through the death or failure of licentiates to pay their annual fees. The total number of licentiates as of October 31 was, therefore, 685.

Prosecution of two persons in the courts of San Luis Obispo for operating as architects without having first secured licenses were brought to a successful conclusion when the court held both defendants guilty. Sentences of 30 days in jail were suspended by the court, pending the good behavior of the defendants.

Cancellation of the licenses of three persons on the roster of the Board of Architectural Examiners, Northern District, reduced the total number of architects operating under this board's jurisdiction to 614, as of October 31.

Prosecution in court was resorted to by the board in the case of one offender, who, posing as an architect, exacted a large fee from a client for services. The man was convicted of operating as an architect without a license and was given a suspended sentence of \$100 fine or 30 days in jail.

Investigations were launched in 7 cases involving complaints and at the close of the month 27 investigations were pending completion.

PRECAST GYPSUM SLABS FOR ROOFING

To meet the demand for a lightweight, permanent, fire-resistant roof at a reasonable cost the Structural Gypsum Corp., Linden, N. J., has developed a construction utilizing gypsum slabs with which the amount of field labor necessary is reduced to a minimum. This is designed for use with purlin spacings up to 7 ft. 9 in. centers where the live loads do not exceed 30 lb. per sq. ft. An essential feature is the factory assembly of units long enough to extend from purlin to purlin, usually from 5 to 8 ft. These units are built up on a pair of specially designed rolled-steel sub-purlins between which are carried a number of 30-in. hollow gypsum slabs. On the job these units are placed in parallel lines approximately 30 1/2 in. apart, the spaces between being filled with additional slabs of the same size used in the unit. All joints are flushed with gypsum grout even with the top surface.

Manufacture of the unit in the factory makes possible the economies of quantity production, as well as permitting the use of an economically shaped sub-purlin which would not be practicable if used in the field. According to the manufacturer this sub-purlin is lighter in weight than any other section on the market of comparable strength. As the bulk of the work is done in the factory, this permits a closer control of labor cost and reduces field work to a minimum.

For use on pitched roofs, a small plate is riveted to the sub-purlin on each unit. These plates are bent around the top flanges of the purlins to form a clamp and prevent movement.

Leonard E. Brownson, an American architect, is credited with having done more to change the skyline of Havana in the last 30 years than any other single individual.

When Brownson went to Cuba at the close of the Spanish-American war, he found Havana "old world" to its very foundations.

Its buildings were piles of solid masonry, erected by men whose first conviction it was that masonry made for strength. Strength is still an important factor in Cuba, subject as it is to hurricanes.

Squat buildings with massive foundations and walls of great thickness were the architectural heritage of the Spanish regime. Brownson knew that buildings constructed with a tough backbone of steel could be made taller, less bulky and stronger than those built of masonry alone, and in his first big contract, he "put across" his idea to "reinforce with steel."

Brownson's first big job was the Miramar hotel, and he made it Cuba's first modern edifice. This opened the way to a fresh era of construction on the island.

Brownson's crowning work was the new \$17,000,000 capitolio, considered one of the most beautiful of the world's capitolis. The new National hotel, completed at a cost of \$7,000,000, is his most recent achievement.

"With this modern construction of steel frame-work we have practically eliminated danger of collapse in case of hurricanes," he said.

Plans for the removal of the W. P. Fuller Company branch at Fresno, from 1022 Fulton street to 1246 Fulton street, are announced by S. E. Chase of San Francisco, district manager and Jack Luftenberg, Fresno manager. The company recently closed negotiations for a 5-year lease as the new location.

JOINT CONFERENCE COMPOSED OF REPRESENTATIVES BUILDING TRADES DEPARTMENT, A. F. OF L., NATIONAL ASSOCIATION BUILDING TRADES EMPLOYERS

Washington, D. C., Nov. 10, 1930.

For the purpose of averting jurisdictional discord in the building industry, and the promotion of a greater amity between the parties principal hereto, there is hereby approved and adopted an agreement entitled

THE BOARD OF TRADE CLAIMS Preamble

The construction industry is constantly confronted with many and complex problems.

Conditions in the industry are ever changing due to improved and changing methods, materials, engineering, design, etc.

These changing conditions present peculiar and unusual problems to both employer and labor. Labor in the construction field is subdivided into trade groups, each of which has its own particular work to perform. This field labor becomes skilled in its particular class of work by application and study.

The question of which trade shall be charged with the responsibility of doing certain work upon a construction project when new materials and methods are presented is at times difficult to determine.

However, the insistence by two or more trades that the placing of the material or manufactured product, or that the work to be performed is properly theirs, and unwillingness on the part of any trade to concede to another the right of erection or installation makes it necessary that there be set up a tribunal or board that shall determine such matters and which shall also determine whether the issue has already been disposed of by decision or otherwise, and whether there shall be further consideration of the issue.

The desire on the part of the entire industry and the public that means be found whereby these costly and troublesome questions may be amicably, economically and expeditiously disposed of that construction may proceed uninterrupted, and with the distinct understanding on the part of the parties hereto that there shall be no abandonment of the work or refusal to do the work pending a decision to be arrived at in the manner herein set forth, prompts us to set up and make effective this

BOARD OF TRADE CLAIMS.

Now, therefore, this agreement entered into this tenth day of November, 1930, by and between the Building Trades Department of the American Federation of Labor and the National Association of Building Trades Employers, to be signed by affiliated International Unions and Employers' Associations, parties hereto. It is agreed:

ARTICLE 1. The Board of Trade Claims shall consist of the Executive Council of the Building Trades Department of the American Federation of Labor and an equal number from the National Association of Building Trades Employers.

ARTICLE 2. The Board shall elect from within its membership a Chairman and a Vice-Chairman.

ARTICLE 3. The Secretary of the Building Trades Department shall act as Secretary of the Board. The Secretary shall engage such assistants as may be required, subject to the approval of the Board.

ARTICLE 4. The Board of Trade Claims shall meet at least four times each year and also at the call of the Chairman with the approval of a majority of both sides of the Board. The first meeting of the year shall be the annual meeting.

ARTICLE 5. The Board of Trade Claims shall receive only from Inter-

national Unions claims for jurisdiction or control over work to be done in the field on construction work. All International Unions affiliated with the Building Trades Department shall be notified and sent a copy of any claims made, by registered mail and receipt returned.

ARTICLE 6. The Board shall investigate each claim and determine by a majority vote whether it has already been disposed of. However, the Board shall recognize and shall not allow to be reopened, except by consent of the trades involved, any past decision rendered by the American Federation of Labor or Building Trades Department or the former National Board of Jurisdictional Awards which have been approved by the Building Trades Department, and which decisions shall be filed with the Board.

ARTICLE 7. If the claim has not been determined already by decision or otherwise the matter shall be set for arbitration.

ARTICLE 8. The Board shall immediately state the question to be arbitrated and shall request the claimant to immediately name their arbitrators.

ARTICLE 9. Each claimant shall name its arbitrator within fifteen days and the arbitrators so chosen shall name an umpire within ten days thereafter. Should the arbitrators fail to agree on an umpire within ten days, then the President of the Building Trades Department shall within 15 days thereafter submit to arbitrators 3 names from within the construction industry, and the arbitrators shall within five days thereafter name an umpire from within the industry or select one of the three so submitted, and should they fail within five days to agree upon an umpire, then the first available of the names so submitted shall be accepted as the umpire.

ARTICLE 10. Should there be but two claimants, one of which fails to name its arbitrator within the stated time, the work in question shall be declared in possession of the trade which names the arbitrator within such time. Should there be more than two claimants, any trade which fails to name its arbitrator within the stated time shall be eliminated from the arbitration.

ARTICLE 11. Where there are but two claimants the decision of any two of the arbitration committee shall be final and binding upon the parties. Where there are more than two claimants and a majority decision cannot be arrived at, then the decision of the umpire shall be final and binding upon the parties.

ARTICLE 12. The arbitrators shall in each instance consider all evidence presented relevant to the question as stated and shall render a decision within ten (10) days after the hearing of evidence and arguments, and shall present said decision to the Board of Trade Claims in writing.

ARTICLE 13. If in the judgment of the Board, a decision is clear, concise, and in line with the QUESTION AS STATED, the Board shall approve the decision and shall set a date upon which such decision shall become effective, which date shall not exceed ninety (90) days thereafter.

All decisions from the Board of Trade Claims shall be made uniformly effective in all localities.

ARTICLE 14. If, in the judgment of the Board, a decision is not in line with the QUESTION AS STATED, then it shall be immediately sent back to the arbitrators for further consid-

eration.

ARTICLE 15. No lawyer shall act as arbitrator, umpire or counsel in any proceedings held under this plan.

ARTICLE 16. It is the purpose in setting up this Board to disturb conditions which are satisfactory in any community, and decisions rendered in the manner herein set forth shall not in any way affect the conditions in such community if they are at variance with the decision accepted as set forth in ARTICLE 17.

ARTICLE 17. Should a condition exist in any community wherein the employer of the trade in possession of the work and some other trade object to the continuance of such trade in possession of the work, then upon joint request sent to the Board of Trade Claims by these two parties, the arbitration decision as handed down by the Board of Trade Claims shall be made effective in that community or district.

ARTICLE 18. A quorum of the Board of Trade Claims shall be a majority of its members. A majority vote shall prevail on all questions.

ARTICLE 19. The arbitrators and the umpire shall be paid by the parties to the arbitration and they shall have the right to request satisfactory assurance that the fees agreed upon will be paid.

ARTICLE 20. The members of the Board of Trade Claims shall serve until December 31st of each year or until their successors are duly elected and qualified.

ARTICLE 21. Resignations or vacancies shall be filled from the Building Trades Department of the American Federation of Labor or the National Association of Building Trades Employers, as the case may be, for the unexpired portion of the term.

ARTICLE 22. The duties of maintaining the office of the Board of Trade Claims shall be equally borne between the parties hereto.

ARTICLE 23. Each of the parties hereto shall pay any salaries or expenses of their respective members of the Board of Trade Claims.

ARTICLE 24. There may be set up wherever there is a Building Trades Council and an Employers' Organization in the construction industry, a conference board, arbitration board, or local Board of Trade Claims, composed of parties to this plan, which shall temporarily suspend jurisdictional claims for that district when such claims arise between meetings of the National Board of Trade Claims and the decision by such local board shall be effective only until a final decision is handed down by the National Board of Trade Claims, and there shall be no strike, abandonment of the work, or refusal to do the work or to go upon the job, because of jurisdictional claims.

ARTICLE 25. Such local board, arbitration board, or Board of Trade Claims shall meet within twenty-four hours of the presentation of a claim and shall render its decision within twenty-two hours thereafter.

ARTICLE 26. Before proceeding with the arbitration of any local jurisdictional issue the matter shall first be referred to the Secretary of the National Board of Trade Claims to ascertain if the matter in dispute has already been Nationally determined.

ARTICLE 27. Should any local labor union fail, within twenty-four hours to abide by and work under any decision arrived at as herein set forth, then the International Union of which that union is a part, shall be notified of the failure and shall furnish skilled men to do the work within forty-eight hours thereafter.

ARTICLE 28. Should the International Union fail to furnish men as herein set forth, then the employers shall be at liberty without being adjudged in violation of this agreement or any trade agreement, to fill the places with such men, members of

other unions, as in his judgment can perform the work, and the members of such unions shall do the work.

ARTICLE 29. Inasmuch as the purpose of this agreement is to maintain peace and harmony in the industry in the public interest and to foster its economic welfare, it is recommended to architects, engineers, builders, owners, contractors and other concerned with construction work, that the decisions and findings handed down by this National Board of Trade Claims be observed in the drawing up of specifications, and in the making of contracts. A strict observance of this will contribute much to the advancement of the industry and will give to the public the necessary assurance in their building operations.

ARTICLE 30. It is agreed by the parties to this plan, that all provisions of said plan shall be fully carried out by their membership. Any of their members failing to comply herewith shall be disciplined by their respective organizations.

This agreement shall be continued in full force and effect until December 31, 1932.

Approved in Joint Conference by Building Trades Department, A. F. of L., by M. J. McDonough, President; Wm. J. Spencer, Secretary; John J. Hynes, P. J. Morrin, L. P. Lindelof, Arthur M. Huddell, Wm. J. McSorley, National Association Building Trades Employers by David T. Riffle, President; E. M. Craib, Secretary; W. W. Rosenthal, Chairman; C. G. Norman, James J. Scully, W. P. Carroll, A. F. Schutlz.

C. R. Stevenson, engineer of New York City, in addressing the annual meeting of the American Face Brick Association, declared that the history of mergers has by no means shown them to have been uniformly successful but that they are apt to be more effective than either large or small individual plants because they have the advantage of more money for technical and sales research. They are in a position to give more steady employment and better wages. With these advantages, plants operate more efficiently and buyers benefit from the resulting low-cost production.

According to Mr. Stevenson, some merging in the brick field would not be impracticable, both in the manufacturing or selling ends, although there are limits to the advantages to be gained. He suggested, however, that mergers should begin with a few small concerns where there would be no doubt that the executives of the merging companies could work together.

He also placed emphasis on the importance of capable management. In capable management is responsible for the failure of a large per cent of unsuccessful mergers.

The merging of a group of trunk manufacturers was given as an example. It was found that one manufacturer was capable of turning out a cheap trunk more efficiently than the others of the group. That plant was devoted entirely to cheap trunks which were sold under their original name. One of the other plants made a medium grade trunk and another a high grade trunk. In this case each plant retained its own name, consequently the consumer would find the three lines in shops across the street from one another, apparently in competition but in reality they were being made by the same company.

General Motors operates on a somewhat similar plan.

BUILDING FINANCE CITED BY CONSTRUCTION ENGINEER

(By Walter J. Aring of the H. K. Ferguson Company, Engineers and Builders, Cleveland, Ohio)

The average annual volume of construction work of all kinds in the United States during the past ten years has been close to three billion dollars. To provide funds to finance this huge volume of business has been a task of immense proportions.

Commercial banks and many other financial institutions are obliged to make a quicker turnover of funds than the ordinary long-term mortgage will permit. Therefore, they are not interested in this type of investment. On the larger projects it is impossible to obtain from individuals sufficient capital in unit loans of large amounts to satisfy the current demand.

The natural source of loan money is the saver or his agent, the savings bank. Records indicate that the savers in the majority are folks of modest means who are in position to take only a fractional portion of the loans offered. This fact has been capitalized by the introduction of the mortgage bond which divides the mortgage into fractional units and provides for distribution to the individual or institutional purchaser in small or large blocks as desired.

This type of financing should constitute one of the soundest and most desirable forms of investment. It fosters civic, business and engineering progress. It furnishes a large portion of the capital available for the construction of commercial and industrial buildings. It opens new channels for the production of wealth which would otherwise remain closed.

The popularity of the mortgage bond during the last decade may be measured by the fact that approximately 18 billion dollars is now outstanding in this form of security.

The buying public looks with favor upon mortgage bonds as long as interest and amortization are met promptly, but when this fails as it has in many cases, the buyer of mortgage bonds looks farther and refuses to be interested in further purchase of this type of security.

The mortgage bond, however, is not the only type of real estate investment which has suffered losses. There have been numerous cases in which straight first mortgages on apartment houses, hotels and various commercial enterprises, as well as mortgages on industrial plants, warehouses and other related enterprises, have shown indications of a similar weakness.

There must be an underlying reason for such failures. The condition is not confined to any one locality but is more or less prevalent throughout the country.

A recent article on real estate investments states that certain types of real estate bond houses in Chicago have over two hundred and fifty million dollars of real estate bonds on Chicago property now in actual default.

One of the outstanding causes of this evident weakness is over-expansion. The wide popularity which real estate bonds have enjoyed has made it necessary for bond houses to promote construction in order to provide enough bonds to meet the demand. This has led to an over-supply of apartment, hotel and office space and consequently to a high rate of vacancy. The earnings of new properties have failed to meet the estimates of their sponsors. Older properties have also suffered because of a drain created by newer and more attractive buildings.

In some cities several years must pass before normal growth and expansion of business will absorb the over-supply of floor space. In the meantime owners of buildings are bound to suffer through reduced earnings and foreclosures.

It is a well-known fact that many building projects are not financed sufficiently to guarantee full completion with a sufficient balance of working capital to carry the project through the lean earning period. Projects are too often promoted on the basis of appraisals of cost and earning power which are over-optimistic. This is especially true of buildings with speculative income such as apartments, hotels and office buildings.

The income of such property should be estimated conservatively on the basis of reasonable occupancy. It is a fact that in many instances income has been over-estimated with a minimum of vacancy allowed in order to stretch the balance sheet to justify a mortgage of the desired amount. This condition, together with inflated building and land values, are danger signs at the outset.

Generally the sponsor only is familiar with the real facts. He may not intentionally mislead, but his judgment is influenced by his keen desire to create a new project, regardless of his own past experience or the experience of others.

Recently the question was asked me, "Why is it necessary to spend so much effort on the preliminary investigation of a new project?" Preliminary analysis is the most important step in the development of any project. To determine the facts accurately and present them truthfully is the essence of the success of the venture. This can only be accomplished by a careful analysis of the cost factors in ratio to the earning power, making allowance for substantial vacancies and including generous operating costs in addition to amortization of funded indebtedness. If a project passes this test satisfactorily and provides in addition compensation for the investor, subsequent steps are merely a process of development.

Previous, of course, to the preliminary work outlined, it is necessary to determine whether or not a building of the type considered is actually needed and whether or not the location and environment of the site selected will best fit the building needs. It may be necessary to make an extended survey of existing buildings of the type planned to determine if there is sufficient demand for floor space to warrant the new venture.

If a wealthy individual owns a piece of valuable frontage and desires to build a monument for himself, he can no doubt afford to proceed without making such an investigation. Such is not true of the average investor. He cannot afford to gamble on the safety or earning power of his investment.

Industrial plants, warehouses and factories differ from commercial projects only in the fact that rental is usually fixed. Income can be definitely predicted without considering the vacancy factor providing the business remains sound. Moreover, industrial property is generally of special type, built to the manufacturer's requirements.

The safety of an investment in this type of construction depends not only upon the soundness and permanence but also upon the manner in which

the space is arranged to suit production requirements. This is the work of specialists in problems of production layout.

It is just as important in the case of commercial buildings to plan the arrangement of floor space carefully to meet the requirements of tenants. Because a building is designed "to last a hundred years," it is not necessarily a good investment.

It must be arranged to yield the last possible foot of rentable floor space. In it there is no room for expensive fads which will not help to earn an adequate return.

It seems to be a popular theory at the present time that garage space combined with office space for the convenience of tenants is a wise investment. A careful analysis of high-class commercial property of this type indicates that in some cases this may prove an expensive type of advertising. Our engineers recently made an analysis of a proposed building of this type and found that losses due to the low earning power of the garage space more than offset the earnings from the balance of the building. Because of the high cost of land in the locality, use of the building must be confined to office, apartment or hotel occupancy in order to return a profit on the investment.

There are many costly buildings, portions of which are profitable while other sections are constantly taxing earnings because the project as a whole was poorly planned.

Great care is usually exercised in arranging the floor plans and the elevations of a building in order to achieve a satisfactory architectural result. Often, however, too little attention is given to the engineering details of the structure and to the lasting quality of the materials specified. All too soon in the life of a building the owner is called upon to spend large sums for repairs and maintenance which should be allotted to amortization.

Early disintegration occurs because materials were not selected which would stand the wear and tear of hard usage. The sharp-eyed engineer is quick to discover the things which contribute to early obsolescence when he is asked to report for a possible loan. A shoddy appearance also has its effect upon the reputations of the firms which the building houses, and unfortunately cannot be overcome except at unreasonable and unwarranted cost.

Many times the quality of a proposed building has been limited due to lack of appreciation on the part of the financial houses of the value of good construction. A mortgagor recently made the statement that without exception any and every office building in his estimation is valued at a certain standard and very definitely low price per cubic foot. In applying such limits the mortgagor makes it impossible for the sponsor to build into a structure the qualities that avoid high maintenance cost and easy obsolescence. He invites cheap construction and thereby decreases the possibility of maintaining the building on a high class rental standard. This practice invariably reacts unfavorably upon the value of the loan.

The protection of a good building requires that a sufficient sum of money be set aside as a depreciation fund to be invested in the building each year to safeguard the mortgage against "early rack and ruin of the plant." This will maintain the prosperous atmosphere of the property and protect the owners against the necessity of making a large lump sum expenditure at a future date which in most cases is considerably larger than the combined cost of a consistent maintenance program.

If the judgment of the sponsors of any construction project is faulty, on

whom shall the bond purchaser rely for safety?

Certainly the average layman cannot judge for himself the merits of a large bond issue in the same sense that he is able to judge a similar amount investment in a mortgage on his neighbor's house and lot.

He is obliged to place his trust in the house from which he purchases the bonds. He must accept their recommendations assuming that they are based on a full knowledge of all the factors which have entered into the preparation of the issue.

The bond distributor, like a banker, cannot be expected to have the combined knowledge of the architect, engineer, builder and building manager. He must depend to a great extent up-

on individuals of these professions for recommendation and approval of the details of the building plans. These statements he must coordinate and pass on to his clients.

Anticipating the growing need of service under one management to provide authentic, authoritative and co-ordinated information covering all phases of engineering and management preliminary to the development of a project, engineering organizations are extending the scope of their work for the preparation of all-inclusive reports for sponsors, bankers, and bond distributors. In this way they are able to assist in a practical way in the proper development of building projects so that the pitfalls which have been encountered on many occasions in the past may be avoided.

ECONOMIC DEVELOPMENT OF STRUCTURAL STEEL INDUSTRY

By James A. Farrell, President, United States Steel Corp

Address before the Eighth Annual Convention of the American Institute of Steel Construction at Pinehurst, N. C., October 29, 1930.

I have been asked to discuss tonight some of the economic conditions confronting the steel fabricating industry.

It was about fifty years ago that structural steel first began to be used in buildings and bridges. During this time there have been remarkable developments. In 1929 over 3,550,000 tons of steel were used in the construction of steel buildings, bridges and lesser structures.

In its continuous annual development, the industry has coped with many problems involving daring in engineering and ingenuity in fabrication, assisted by metallurgical research and effective rolling mill practice.

The American Institute of Steel Construction has become in the last decade a national institution. It has exerted a commendable co-operative effort in its program of standardization, simplification and the elimination of waste. The consequent reduction in cost of fabricated structural steel serves the public interest in promoting the building of modern steel structures at reasonable cost. This recognition of the fact that public welfare is of paramount importance ensures that the interests of the industry, while apparently subordinated, are nevertheless more surely advanced.

Your Institute recognizes that effective industrial development can best be accomplished through proper and legal co-operation.

Standard Specification

It is asserted that your Standard Specifications, generally adopted by the industry, have reduced the cost of building construction by millions of dollars annually by the employment of standard, uniform practices. The public is the principal beneficiary of this reduction, but the industry profits through the creation of broader markets.

Technical research is another activity of importance. The work in connection with wind bracing, welding, the proper fireproofing of structural steel, and other similar technical problems will lead to more intelligent and economical uses.

Recognition should likewise be accorded your work with technical schools and colleges, educational meetings and your Bureau of Technical Service and Standard Handbook,

as promoting a keener interest and wider understanding of structural steel and of the industry that is producing it.

Public opinion cannot be artificially manufactured. Advertising and publicity alone, no matter how skillfully manipulated, will not achieve anything of lasting value unless founded upon economic results. Public confidence can be maintained only if actual and authenticated achievement accompany announcements and claims.

Work of Engineers

The constructive work of your engineers, as shown by the record which they have established in promoting wider uses of structural steel, is commendable. No less important is the service extended to users and to those who prepare specifications.

Interest is being successfully stimulated in new and practical uses for steel. Steel dams, steel framed buildings, battlecreek steel plate floor construction, the steel hangar, and other similar enterprises result in a larger consumption of steel. Where excess plant capacities exist, increasing consumption will be found the only sure panacea.

Other research problems are important, such as the abatement of noise in construction, the use of alloy steels, the economic height of buildings, and the demand for greater speed in erection occasioned by the consideration of the high cost of land.

Keen Rivalry Cited

There is naturally keen rivalry between reinforced concrete and structural steel. This rivalry is wholesome as long as it is constructive. There is a legitimate market for both materials. Both fulfill a public need. Each can properly claim economy, durability and safety. Practicability and sound engineering practice can and should determine the limitations of each. It should be the aim of the producers to stimulate fair consideration of both types of construction. In all promotional effort, including advertising and selling, the presentation of all claims should be governed by facts free from misrepresentations or misleading statements. Honest competition is a business stimulant; destructive competition undermines business stability and retards national progress.

At the Spring Meeting of the American Iron and Steel Institute I called attention to the smaller manufacturers and to the importance of the smaller consumers, who in the aggregate account for a large tonnage. These

smaller concerns are working the highways and byways, and are entitled to full consideration and encouragement. They are educating new users who later may develop into large consumers. Many of these companies are equipped to render specialized service and are of importance to the steel industry.

Similar to other problems of standardization is that of structural shapes. Producing mills appreciate the intrinsic merit of the principle and are prepared to delve into the details. Any practical program of standardization and simplification is deserving scrutiny and collaboration.

Prices and Profits

You are all conversant with conditions that influence prices and profits. When one considers all the hazards involved in the erection of our modern skyscrapers and large bridges, it is difficult to understand why prices frequently are quoted which do not bring a return in the form of profit.

All industry throughout the world has been passing through a transition that has effected prices, largely due to the fall in values of basic commodities and to the underlying world causes for such decline. I am confident that in the end stabilization and recovery will develop from intelligent management. The "Spirit of Live and Let Live" is a necessary doctrine of modern business, and no satisfactory substitute has been found for the Golden Rule, whether in the field of economics or any other phase of existence.

During the past year there has been much talk of a depression. This was but a logical outcome following the period of activity during 1929. Steel production has declined very materially, but I am one of those who like to think that our business has been making for better times, considering the increase in the general and more widely spread demand for fabricated material which has developed during the last several years.

Plant Modernization

The millions spent in being expended in modernizing plants to reduce costs will be justified by the inevitable return of a period when demand will again overtake supply. This, however, can apply only to those lines in which capacity has not far outstripped the potential demand for some years to come.

While competition in industry may be termed euphemistically the life of trade, it must be healthy competition, because carried to the excess which leads to destruction of competitors, it is harmful to business and destructive of national prosperity. The middle ground must be found in legitimate co-operation combined with legitimate competition.

Expansion of capacity, without the realization of commensurate consumption, has forced upon us the present problem of promoting better distribution and enlarged markets.

Business exists for making profits. When profits disappear, business likewise disappears. The satisfaction of labor working for adequate wages, of the consuming public for an adequate supply of goods at reasonable prices, of the investor for a fair return on his money of the government for an unimpaired source of tax returns, are all dependent uniformly upon the profitable operation of business.

This problem of earning a profit, however, is properly left to the discretion of business management. Consequently management is in duty bound to apply scientific thinking and planning in effecting better methods

for the stabilizing of business prosperity.

Economies Effected

By co-operative effort we have effected economies through standardization, simplification and the elimination of waste. Inefficient plants and improper selling methods are not entirely extinct, and the latter will not serve to offset the failings of the former. Changing conditions and accelerated methods are forcing the transition to modernized plants and improved commercial practices.

Eventually business concerns throughout the country will see the need of determining accurate costs and of establishing their sales prices on a basis of total cost plus a reasonable profit. This is the only procedure by which business can permanently endure, and it is the first essential of sound, intelligent management.

As we look into the future we cannot fail to be imbued with optimism and a firm belief in the greater development of our industrial activities. We envision our buildings rising higher and higher and as demand for transportation increases we foresee the necessity for heavier and wider bridges.

We are extending the use of steel in the erection of all-steel office buildings and residences of all-steel frame with steel floor construction. The art of welding is improving.

Research, educational and sales effort, properly directed, will develop

our markets to the benefit of the fabricators and the steel mills. It behooves all to prepare for a greater future by modernizing our own business methods and by having a proper regard for the rights of others.

In conclusion I again wish to commend you for the constructive work that has been accomplished by the American Institute of Steel Construction. It should indicate very clearly the benefits to be derived through proper co-operative efforts. It should demonstrate that individual success and prosperity is based primarily upon the prosperity of the industry itself. No individual can possibly achieve permanent success if exclusive reliance is to be placed upon individual effort. The forces marshalled against him are altogether too great. This is a time in which the constructive, co-operative effort of all is essential if the industry is to profit from its full possibilities during the years ahead.

Fortunately for the structural steel industry its future, if judged by the progress made during the past nine years, offers much in the way of encouragement. It has made a commendable record during 1930. The shipments of fabricated structural steel during the first eight months have been in excess of 1929, a year which saw the largest tonnage consumption. The industry is confronted by greater possibilities which your Institute is designed to assist to its full achievement.

LUMBER, A SICK INDUSTRY, CHAFES UNDER SHERMAN ACT

The lumber industry is sick. The troubles of the business have been told and suggested remedies are to be put to the test by the National Timber Conservation Board.

The accompanying article published in the Business Week summarizes the troubles in the industry and the suggested remedies.—Editor.

Lumber prices are off \$5 per M on the average. No. 1 common boards, a fair example, sell at \$16, f.o.b. Chicago against \$21 a year ago.

Land covered with good timber, ripe for logging, is worth less an acre than it was 10 years ago when its trees were smaller.

There are 15,000 lumber mills; 2,500 of them make 60% of all the lumber; the other 12,500 make 60% of all the trouble. When the market is demoralized, the little mills close down, that is, after prices have been down for so long that even they, without any system of cost accounting, discover they are losing money. When prices perk up, they glut the market again. Just now, lumber production and consumption are in balance. It has taken 8 months of the severest depression of prices to accomplish this.

No lumberman is making any money just now. Of course, that isn't literally true, but it is truer than most sweeping statements.

In short, the lumber industry is another of the sick industries. All of which explains why the lumbermen asked President Hoover to appoint a National Timber Conservation Board to study lumber's sickness, suggest remedies. The Board has just been appointed. On it are the Secretaries of Commerce, Agriculture, Interior, 3 lumber manufacturers; a paper manufacturer; 4 forestry men; a farm leader; a railroad president.

Lumber, oil, coal—there is a close parallel. All three industries utilize natural resources. In each industry, wasteful overproduction with competi-

tion run wild loses money for all investors, wastes harm to labor, wastes the natural wealth of the nation. In his message to the Congress, the President suggests the anti-trust laws may need revision to cover such industries. He mentions only coal by name, but the lumbermen hail his words with joy. They frankly hope the Conservation Board will reach the same conclusion.

"Fundamentally the purpose of this movement," says Wilson Compton, secretary and manager of the National Lumber Manufacturers' Association, "is through cooperation with public agencies and relying upon frank public disclosure of economic facts to seek a sound economic basis upon which to build a permanent and profitable future for the lumber and wood-using industries. It is not a task for a day. It may be a vision but at least it is no dream."

The notion that our forests are disappearing, that it is an act of patriotic virtue not to use lumber because we must have our trees, has taken extraordinary hold upon the public mind. Probably because propaganda of forestry enthusiasts for years was much more aggressive than the lumberman's. Incidentally, that war is about over. Lumbermen and conservationists have made their peace, are in substantial agreement.

Forests Still Equal Farms

As a matter of fact, after 300 years of use and waste, 3 centuries of steady conquest by the axe and saw, the agricultural lands of the United States now are exactly equal to the forest lands—500 million acres each. Canada's forests cover somewhat more acreage than ours, but the stand is thinner; Canada probably has only half the potential lumber we have. The stand of wood in the United States has been estimated at 746 billion cubic (not board) feet. Of this, about 25 billion cubic feet are used, burned, or wasted annually. Fuel takes 40% of this; lumber, 35%; posts, piling, ties, etc., 10%; pulp, 4%; fire and tree diseases,

HOOVER DAM BID OPENING IS SCHEDULED FOR MARCH 4

10%. Annual growth once was estimated by the Federal Forest Service at 6 billion cubic feet annually. Lumbermen bitterly dispute this; are working hard to get a complete survey; offer to prove that in the South, for example, annual growth already substantially equals annual cut.

What no one disputes is that, given better economic conditions in the industry, our forests can be made to last forever. For example, it would pay to spend more money on fire prevention and fire destroyers more acres than are cut annually—though not as many board feet of lumber.

Third in Employment

The industry ranks third in number of employees, 600,000; eighth in value of annual product, two billion dollars. Investment is eight billion dollars. In five states, more than half of all employed persons are in lumber.

Annual use of lumber is declining rather steadily. Substitutes are still cutting in, although during the past two or three years lumber has been at least holding its own in competition. Yet we shall use 28 billions of board feet this year. The industry is big enough to be worth saving.

Besides some modification of the law to permit closer cooperation, the lumbermen suggest various other remedies. Most important of all is taxation reform. They insist it is outrageous to tax standing timber annually; that forces the lumbermen to cut his trees to raise money for present taxes, and to avoid future taxes. Taxes, they believe, should be based on annual yield. The forest is the problem is knotty for hundreds of counties in which taxes upon forests are virtually the only revenue for the support of schools and government. But they hope a formula can be found.

They suggest the industry needs huge mergers, to create in lumber something comparable to the great oil companies, or to U. S. Steel. Only corporations of such size, they point out, can afford to carry on the research in which, they are convinced, lies the future hope of the industry. So, with a sideways glance at the Sherman Act, they talk of bigger combinations.

Research may transform the industry. It is a physical industry now; it is likely one day to become a chemical industry. There are 200 possible by-products. Their possibilities need to be explored. The future of cellulose is not yet to be forecast. Plastics are in their infancy. It is not improbable that virtually all wood now wasted in lumbering some day will be made into products much more valuable than lumber. The chemicals derivable from wood are an imposing list. The possibilities of chemical treatment of wood to make it fireproof, waterproof, rotproof are just beginning to be sensed.

What Is Needed

Grading and trademarking are officially endorsed. The market extension work is being pushed aggressively. Lumber, its producers stoutly insist, is better and cheaper than iron or concrete in many of the places where it has been shoved aside by good salesmanship of the competing industries. Coordination of the work and of markets is badly needed. The average haul to market used to be 200 miles, now it is 1,000 miles.

And over the horizon is always Russia, with forests probably greater than ours in stand of saw timber; certainly greater than ours in area, but wasting horribly through the vastness of which this country cannot conceive. Russia has no costs, save freight paid foreign bottoms. Present tariff is called just big enough to irritate Canada, not big enough to keep out the Soviets.

These are lumber's troubles; these the suggested remedies. The National Timber Conservation Board has a job.

March 4 has been tentatively fixed as the date for opening bids for the construction of the Hoover Dam, and appurtenant tunnels and cofferdams, and the power plant building. Plans and specifications have been approved by the engineers of the Reclamation Bureau at Washington, D. C., and have been submitted to the Secretary of the Interior, whose approval may be announced within the next few days.

The first contract to be let will include the 727-ft. dam, the four 50-ft. diversion tunnels, the cofferdams, and the power plant (except installation of machinery). The principal items and approximate quantities are:

1,800,000 cu. yds. open cut excav. (all classes);
1,500,000 cu. yds. shaft and tunnel excavation;

1,200,000 cu. yds. earth and rock fill in cofferdams and river channel protection;

4,400,000 cu. yds. concrete;
228,000 cu. ft. of grout;
5,500,000 lbs. reinf. bars (placing);
190,000 ft. placing grout and drainage holes;

1,900,000 lbs. small metal pipe and fittings installed;

32,500,000 lbs. large metal conduits;
10,600,000 lbs. structural steel;
20,000,000 lbs. of gates, hoists and other metal work.

The proposed dam, originally known as the Boulder Dam, will be constructed in upper Black Canyon on the Colorado River about 30 miles southeast of Las Vegas, Nevada. The project embraces a dam, power house, and All-American Canal. The project has been planned for several purposes, among them flood control, river regulation, irrigation, silt control, power development, and domestic water supply.

According to the most recent figures the Act of Congress authorizing the construction appropriates \$165,000,000, to be expended as follows: \$70,000,000 for the dam and reservoir; \$38,200,000 for power development; \$17,700,000 for the All-American Canal, and \$17,700,000 for interest during construction.

Preliminary plans provide for a maximum height of 727 ft. above bed rock. The dam will be of the arch-gravity type, the load being carried by both gravity action and horizontal arch action. It will be about 950 ft. in length along the crest, with an up and down stream width of 45 ft. at the top and 650 ft. at the base.

The estimated quantities of concrete to be used are 3,500,000 cu. yds. in the dam, or 4,400,000 yards in the dam, power plant, and appurtenant works. The work will require 3,500,000 blbs. of cement and 19,000,000 lbs. reinforcing steel.

The foundation and abutment rock is reported to be of volcanic origin, known as andesite breccia. Borings and testings have been in progress for many months.

The department plans to complete the work in approximately seven years after the award of contract. It is not probable that the payroll will exceed 1000 men at any time during construction.

The construction of the dam will create a reservoir having a capacity of 30,500,000 acre feet. The arch of the reservoir will be about 227 square miles. The lake thus formed will extend 115 miles to Bridge Canyon and 35 miles up Virgin River. The maximum width of reservoir will be eight miles and the minimum several hundred feet. The length of the shoreline will be about 560 miles. Practically all of the lands on the reservoir site have been withdrawn from entry for construction purposes.

During construction, the river will be diverted by temporary earth and rock-fill cofferdams through four 50-ft. concrete lined tunnels, two on each side of the river. The four tunnels, which will be driven through rock, will have a total length of 16,300 lin. ft. After completion of the dam, the tunnels will be utilized for penstocks and spillways. Two of the tunnels will serve as main supply tunnels for forty 72-in. needle valve outlets located in the canyon walls. Water will be delivered to the valves through 28-ft. diameter power intake towers. The dam itself will have eight metal lined conduits, 7 ft. 9-in. in diameter, to carry the low flow of the river when the diversion plugs are being poured. Each of these sluiceways will be controlled by a pair of 6x6-ft. slide gates.

Plans for spillways include two glory-hole type spillways discharging through 50-ft. diameter shafts into the outside diversion tunnels. The spillways will have a capacity of 200,000 cu. ft. per second without overtopping the dam.

The power plant is to be located just below the dam, one-half on the Nevada side and one-half on the Arizona side, forming a U shaped structure. The water will be delivered to the turbines through four pressure tunnels, two on each side of the river, each provided with shut-off gates and trash racks. Tentative plans for the 1,000,000-horsepower installation, call for twelve 85,000 h. p. hydraulic turbines, twelve 11x10-foot balanced valves, twelve 75,000 K. V. A. generators with exciters, thirty-six 25,000 K. V. A., 220,000-volt transformers, four 250-ton cranes, switchboard, control apparatus, and a completely equipped machine shop. The turbines will operate under a maximum head of 582 ft. and a minimum of 422 ft., averaging 520 ft. The plant will be operated by the City of Los Angeles and the Southern California Edison Co., under the general supervision of a director appointed by the Secretary of the Interior. The machinery and equipment to be installed by the government will cost approximately \$17,700,000.

Establishment of a board of reference is contemplated by the Oregon Building Congress at an open forum meeting held in the Multnomah Hotel, Portland, last week. The board, which has already been established in parts of the East, will be for the purpose of settling differences between the general or sub-contractor and the architect or engineer. When the former, competitively bidding on plans and specifications, discovers therein any requirements which in his opinion are unfair as to general conditions and guarantees, or inadequate in their explanations, he is invited to submit the matter promptly to the board, before the competitive proposals are handed in.

An active Own Your Home campaign will be launched by the California Real Estate Association in cooperation with other state bodies beginning with the first of the year.

Watersheds under protection of the U. S. Forest Service serve 80 per cent of the irrigated farms in 87 per cent of the irrigation enterprises in the 12 western States. There are 782 municipalities dependent wholly or in part for their water supplies upon the national forests, and 335 water power projects are located wholly within these same Federal forests.

WESTERN METAL CONGRESS MEETS HERE IN FEBRUARY

Structural steel, builders' hardware and silent welding of steel frames for large structures are subjects listed throughout the programs now being outlined for the National Western Metal Congress and National Western Metal and Machinery Exposition, to be held February 16 to 20 in the Municipal Auditorium, San Francisco.

While the programs, as yet, are far from complete, they are being rushed to a finish by a San Francisco and Oakland committee, headed by Ivan L. Johnson, of the Best Steel Casting Company, Oakland. W. H. Eisenman, of Cleveland, secretary of the American Society for Steel Treating, already is on the ground, and has opened offices in the auditorium building, which he will occupy until the show and convention is finished.

One session of the meet, that sponsored by the American Chemical Society, largely will be devoted to resisting corrosion, one of the important subjects, now confronting the builder and hardware man.

F. N. Speller, of the National Tube Company, Pittsburgh, will give a thorough review of corrosion findings as ascertained during the past year. On the same program, a speaker from the Merco-Nordstrom Valve Co., San Francisco, is scheduled to talk on corrosion and lubrication of valves, showing how his theories may be applied to other items of industry, as well.

Chromium and Chrome-nickel steels are to be discussed by M. A. Grossman, of the Republic Steel Corporation, Canton, Ohio.

Fully two sessions have been assigned the American Welding Society, although dates for all the sessions are yet to be set.

On the programs devoted to welding will be heard J. C. Hodge, of the Babcock and Wilcox Company, Beaver Falls, Pa., whose subject is fusion welding. Linde Air Products Company is planning to assign one of their metallurgists to talk on carburizing flame and acetylene welding. Coated electrodes and coated welding rods will be the topic of A. B. Stroebel, of the Stoddy Company, Whittier, Calif., while another Stoddy speaker, M. C. Smith, will talk on welding of alloy overlays.

Welding of aluminum and its alloys is to be the topic of W. N. Dunnlap, of the Aluminum Research Laboratories of the Aluminum Company of America, Pittsburgh.

The societies, which are taking part in the sessions, in addition to those already mentioned, are American Institute of Electrical Engineers, American Institute of Mining and Metallurgical Engineers, American Society for Testing Materials, Institute of Metals, National Purchasing Agents' Association, Pacific Coast Electrical Association, Pacific Coast Gas Association, Society of Automotive Engineers, and National Association of Power Engineers.

Plans for the congress have been made on a scale of registering 5,000 delegates and interested persons, while 60,000 men, identified with the industrial end of the metal industry, are expected at the exposition.

Two years ago, the congress and exhibition was held in Los Angeles, where it achieved a distinct success to mark its first appearance in the west. The San Francisco event is expected to be planned on a considerably more comprehensive scale.

issues, said that the process of readjustment will show eventually that real estate is substantially the only form of investment that has come through with a reasonable degree of security and investment return. He pointed out especially two factors of the present long-time trend in the development of real estate practice which are bound to affect favorably the degree to which real estate securities can be safeguarded. They are the development of nationally accepted and detailed standards of practice in the appraisal of real estate, and the coming of a new realization that the management of an office building or apartment building is a specific business calling for the same kind of specific management ability and specialized experience as would be taken for granted as necessary in the management of any other business where a like capital was invested.

Adventures Blamed for Improperly Guarded Issues

Mr. Reaume said:

"The present situation in regard to real estate bonds has been brought about by the entrance in to the real estate field of adventurers without experience and without scruple. They have sold as a conservative investment bonds that were not even a half decent speculation. These adventurers represent a very small percentage of the men and firms in our field.

"The general prosperity of the last few years, with their rising real estate returns, has induced the entrance of these adventurers and has concealed from the public the fundamental unsoundness of their projects. Conditions prevailing over the last few months have tested the stability not only of real estate bonds, but of all business. Where, as has happened, either through actual chicanery or culpable ignorance the appraisal upon which a bond issue was sold did not fairly represent the income producing value of the security, where because of inexperience a bond issue was made without due regard to changes that might come in the general business situation and hence in the earning power of projected building, or where real estate securities have become involved because of losses sustained by the issuing house in other investment or business operations, real estate bonds have gone into default.

"The times are helping us to weed out the unfit operator. But in the meantime we must take action, or the public will permanently confuse the defaulted bonds with bonds based on valued projects and on conservative negotiations.

"We have had, and still have, a situation in which owners of real estate who have no knowledge or experience in the management of properties are undertaking the management of \$400,000 or \$500,000 properties. At the same time, these very owners would not invest \$40,000 in any ordinary business unless they were assured that someone who was recognized as able in that particular field would be in charge of the management of the business.

"But within recent years we have concurrently developed the business of property management, a highly specialized business, and we as realtors can now say to the world that there is no other investment which offers so great an element of security as does real estate where the project is developed after accurate survey of the market demand, protected against inflation by sound appraisal, and given that skilled direction that we take for granted is needed in every other major experience of capital, the advantage and guidance of experienced and competent property management."

GENERAL SOUNDNESS OF MORTGAGE BONDS CITED BY REAL ESTATE CHIEF

Holders of real estate bonds should be warned not to allow hysteria over the present business situation to lead them to part with their bonds at an unjustifiably low rate, Leonard P. Reaume, president of the National Association of Real Estate Boards, states in a letter sent out to the presidents of the Association's member boards in 25 larger cities.

The letter calls on real estate boards over the country to advise the holders of real estate bonds against acting upon mere rumor or upon misconception in relation to their bonds. It asks every member board of the Association in cities where real estate bonds as a valuable modern instrument of finance have come into general use, to set up a special committee or other machinery to give the public, owners of bonds and owners of equities alike, unbiased and informed advice.

Such machinery would act against forces reported to be at work to discourage real estate bond holders, buy up sound issues at abnormally low rates, induce foreclosures, and profit selfishly by the consequent loss to the original investors.

The Securities Division of the State of Illinois has already taken cognizance of the fact that certain persons in the state are finding it profitable to circulate adverse rumors as to the stability of real estate mortgage bonds and thereafter to pick up valuable bonds from uninformed invest-

ors in exchange for worthless securities or for entirely inadequate cash payment, and says:

"Land has always been the basis on which the wealth and prosperity of our country has been built and while other kinds of wealth change continuously, land throughout the ages has continued to be the greatest part of the world's wealth. There is no reason today why investors should lose confidence in securities based upon land at a conservative valuation.

"From information which has come to the Securities Department of the State, many investors are frightened, and their fear is being augmented and exploited by certain agencies who are trying to trade holders out of their mortgage bonds at low prices.

"Holders of real estate and real securities will do well to sit tight and hold their investments. Securities based on real estate, should pay out in full in practically all cases. The important thing at this time is that the owners of bonds and the owners of equities cooperate. The best way to make bonds worth a hundred cents on the dollar is to prove that real estate is worth more than the bonds, and this cannot be done by sacrificing the real estate at forced sales during hard times."

Emphasize Security

Mr. Reaume, in outlining the present need of emphasizing the very real degree of security behind real estate

Building News Section

APARTMENTS

Plans Being Figured.

APARTMENTS Cost, \$15,000
BURLINGAME, San Mateo Co., Cal.
 Broadway near California Drive.
 One-story and mezzanine floor reinforced concrete apts. and stores.
 Owner—Peter Lemperopolus.
 Architect—Russell Coleman, 1404 Broadway, Burlingame.

Bids To Be Taken Within a Few Days.
ALTERATIONS. Cost, \$—
SAN FRANCISCO. 499 Buena Vista Avenue.

Alter residence for apartments.
 Owner—Mrs. J. A. Wilcox, 499 Buena Vista Ave.
 Architect—Henry H. Guttererson, 626 Powell St.

Preparing Preliminary Plans.
ADDITION Cost, \$12,000
BERKELEY, Alameda Co., Cal. College Avenue.

Two-story brick addition to apartment.
 Owner—Withheld.
 Plans by Mr. Yerrick.
 Contractor—A. J. Yerrick, 5263 College Ave., Oakland.

Sub-Bids Wanted.
REMODELING Cost, \$6000
OAKLAND, Alameda Co., Calif.
 Remodel 2-story and basement frame and stucco store and apartments.
 Owner—A. Tulanian, 2998 College Ave. Berkeley.
 Plans by Mr. Yerrick.
 Contractor—A. J. Yerrick, 5263 College Ave., Oakland.

Excavation Contract Awarded.
APARTMENTS Cost approx. \$50,000
SAN JOSE, Santa Clara Co., Calif.
 Mariposa and Rice Sts.

Two-story and basement frame and stucco apartments (8 apts.)
 Owner—W. Hodges.
 Architect—Charles McKenzie, Twohy Bldg., San Jose.

Excavation—Dan Dorsey, San Jose.
 Mill Work and Lumber—Hubbard and Carmichael, 354 W Santa Clara, San Jose.

Bids wanted on plumbing, electric, plastering, painting, hot air heating system, etc.

To Be Done By Day's Work By Owner
APARTMENTS Cost, \$40,000
SAN FRANCISCO, NW Broderick St. and North Point St.
 Three-story and basement frame and stucco apartments (15 apts.)
 Owner—Robinson & Johnson, 871 31st Avenue.
 Architect—Irvine and Ebbets, 72 New Montgomery St.

Contract Awarded.
APARTMENTS Cost, \$200,000
LOS ANGELES, Cal. 445 S Gramercy Place.
 Seven-story and basement class A reinforced concrete apartments (60 apts.)
 Owner—W. G. J. Bentley.
 Architect—Arthur LeBrun, H. L. Booth, H. W. Charlton, Fay Bldg., Los Angeles.
 Contractor—Harris Bowers Const. Co., I. W. Hellman Bldg., Los Angeles.

Contract Awarded.

APARTMENTS Cost Approx. \$300,000
ALAMEDA, Alameda Co., Cal. NW Webster and Taylor Sts.
 Seven-story reinforced concrete and steel apartments (60 2, 3 and 4-room apts)

Owner—J. S. Bercovich, Actico Bldg., Oakland.

Plans by Thomas Keenan, 1440 Broadway, Oakland.

Contractor—G. P. W. Jensen, 320 Market St., San Francisco.

Financing arrangements are now being made.

Sub-Figures Being Taken.

APARTMENTS Cost, \$—
LOS ANGELES, Cal. No. 218 S. Kingsley Drive.

Five-story and basement Class B brick and steel apartments (75x138 feet).

Owner and Builder—Harry Feigenbaum, Union Bank Bldg., L. A.
 Architect—Max Maltzman, Union Bank Bldg., Los Angeles.

Construction Started.

APARTMENTS Cost, \$200,000
LOS ANGELES, Cal. No. 535 S. Gramercy Place.

Eight-story and basement Class A apartments (42x122 feet)

Owner and Builder—Peter Elvad, 535 S. Gramercy Place, Los Angeles.
 Architect—Thomas P. Barber and Paul Kingsbury, Union Insurance Bldg., Los Angeles.

Plans Being Figured—Bids Close Jan. 5th.

ALTERATIONS Cost, \$—
SAN FRANCISCO, No. 499 Buena Vista Avenue.

Alter residence for apartments.
 Owner—Mrs. J. A. Wilcox, Premisee.
 Architect—Henry H. Guttererson, 526 Powell St., San Francisco.

Sub-Bids Being Taken.

APARTMENTS Cost, \$30,000
SAN FRANCISCO, W Fillmore St N Beach St.

Three-story and basement frame and stucco apartments (8 apts.)

Owner and Builder—B. Lieberman, 1555 Francisco St., San Francisco.
 Architect—Irvine & Ebbets, Cal Bldg., San Francisco.

SKILSAW Portable Electric Hand Saws (4 models).

SKILSAW Portable Electric Sander Radial Arm Attachments.

SYNTRON Portable Electric Hammers (4 models, motorless).

MALL Flexible Shaft Machines (50 models).

Electric Drills, Grinders, Buffers, Routers, Lock Mortisers.

PETER H. NELSON

Labor Saving Portable Electric Tools.

1248 Mission St. Underhill
 San Francisco 7642
 SALES . SERVICE . RENTALS

BONDS

OXNARD, Ventura Co., Cal.—(Oxnard Union High School District affirmed bond issue on December 16, providing \$60,000 for construction of new buildings on the Oxnard High School site. Allison & Allison, 1005 California Reserve Bldg., Los Angeles, will be the architects.

SAUSALITO, Marin Co., Cal.—Election will be held January 10 in Sausalito School District to vote bonds of \$24,000 to finance miscellaneous school improvements including playground developments. Trustees of the district are Chas. W. Ellis, Grace Green and S. G. Ratto.

CHURCHES

Completing Plans.
AUDITORIUM Cost, \$100,000
TUCSON, Arizona.

Marble and stucco church auditorium (to seat 1000).
 Owner—Trinity Presbyterian Church.
 Architect—Robert H. Orr, Tucson.

Bids To Be Taken Shortly.
CHURCH Cost, \$100,000
LOS ANGELES, Cal. No. 4103 W. Adams Blvd.
 Class C reinforced concrete church (65x142-ft.)

Owner—Memorial Congregational Church (Dr. Isaac C. McCarty), 1264 W. Adams Blvd., Los Angeles
 Architect—Thos. P. Barber and Paul Kingsbury, Union Insurance Bldg., Los Angeles.

Preparing Working Drawings.
CHURCH Cost, \$75,000
BERKELEY, Alameda County, Calif.
 Scenic and Le Conte Avenues.
 One-story brick church (to seat 5000).
 Owner—University Christian Church.
 Architect—W. H. Ratcliff, Jr., Chamber of Commerce Bldg., Berkeley.
 Bids will be taken in about 30 days

Bids Wanted—To Close January 5, 12 Noon.
CHURCH Cost, \$40,000
SAN MATEO, San Mateo Co., Calif.
 San Mateo Drive.

One-story frame and stucco church with tile roof (auditorium to seat 350).

Owner—First Congregational Church.
 Architect—Kent & Hass, 525 Market St., San Francisco.

Present organ is to be used. Bids are being taken from a selected list of contractors for general contract, electrical work, heating and ventilating, seating and chancel fittings.

Concrete foundations, reinforcing bars, wood frame structure, stucco exterior, brush coat finish to cover old and new buildings, cast cement, brick and cement steps and walks. T. C. tile roof, wood wash and doors, cathedral glass.

Interior: Pine, hardwood and rubber floors, plaster walls, ceilings, acoustic plaster and celotex in main church, open truss and beam ceilings alternate bids on pine, Philippine mahogany and oak finish alternate bids on warm air and steam heating, gas and oil burners. Allowance for painting, hardware, fixtures and landscaping.

Plans Being Figured.
CHURCH Cost, \$70,000
OAKLAND, Alameda Co., Cal. Emer-
 son and Excelsior Avenues.
 Reinforced concrete church.
 Owner—Roman Catholic Archbishop of
 San Francisco, 1100 Franklin St.,
 San Francisco.
 Architect—W. E. Schirmer, 700 21st
 St., Oakland.

SAN FRANCISCO, Calif.—Dinwid-
 die Construction Co., Crocker Bldg
 awarded the lead roof contract to the
 Northwest Lead Co., Crocker Bldg.,
 and the acoustical tile and tinbrel
 vaulting to the Gustafson Co. Boston
 Mass., in connection with the con-
 struction of the Grace Cathedral, lo-
 cated on California and Mason Streets.
 Plans prepared by Architect Lewis P.
 Hobart, Crocker Bldg.

Plans Being Prepared.
CHURCH Cost, \$19,000
SAN FRANCISCO. Thirty-second Ave.
 and Ulloa
 One and two-story frame and stucco
 church with slate roof (to seat
 400).
 Owner—St. Stephens Protestant Epis-
 copal Church.
 Architect—Chas. Strothoff, 2274 15th
 St., San Francisco.
 Bids will be taken right after Janu-
 ary 1.

George Honore, San Jose... 9,367
 Sub-Contracts Awarded.
WAREHOUSE Cont. price, \$73,450
SAN FRANCISCO. Fifteenth and Har-
 rison Streets.
 First unit of two-story reinforced con-
 crete central storage warehouse
 (flat slab construction).
 Owner—City and County of San Fran-
 cisco.
 Architect—Dodge Reidy, Pacific Bldg.
 Contractor—Mahony Bros., Flood Bldg.
Ready Mix Concrete—Golden Gate At-
 las Co., 16th and Harrison Sts.
Reinforcing Steel—Truscon Steel Co.,
 Call Bldg.
Plastering—Peter Bradley, 639 Bran-
 nan Street.
Elevators—Spencer Elevator Co., 166
 7th Street.
Roofing—Malott & Petersen, 3221 20th
 Street.
Tile Work—Malott & Petersen, 3221
 20th Street.
Steel Doors—Kernerson Mfg. Co., 361
 Brannan St.
Glass—W. P. Fuller Co., 301 Mission
 Street.
Hardware—Marshall Newell Co., Spear
 and Mission Sts.
Painting—D. Zelinsky and Sons, 165
 Grove St.
Miscellaneous Iron and Sheet Metal—
 Conlin & Roberts, 410 Natoma St.
Brick Work—Mutual Const. Co.
Vault Doors—Hermann Safe Co., How-
 ard and Main Sts.

Construction Started.
LABORATORY Cost, \$200,000
CULVER CITY, Los Angeles Co., Cal.
 Reinforced concrete film laboratory.
 Owner—Metro-Goldwyn-Mayer Studios
 Plans by The Austin Co. of Calif., 777
 E Washington St., Los Angeles.
 Contractor—The Austin Co. of Calif.,
 777 E. Washington St., Los An-
 geles.

Contract Awarded.
WAREHOUSE Cost, \$125,000
GLENDAL, Los Angeles Co., Cal.
 Seven-story reinforced concrete stor-
 age warehouse.
 Owner—Bekins Van & Storage Co.,
 1335 S. Figueroa St., Los Angeles.
 Architect—F. Eugene Barton, Crocker
 Bldg., San Francisco.
 Contractor—John T. Bibb, 231 N. Cen-
 tral Ave., Glendale.

Construction to Start January 2.
FACTORY Cost, \$—
SAN LEANDRO, Alameda Co., Cal.
 Foothill Blvd. and 163rd Ave.
 One-story brick and steel factory (60x
 108 feet).
 Owner—Wurm Woven Hosiery Mills,
 J. W. Tilley, Mgr., 414 13th St.,
 Oakland.
 Plans by Owner
 Contractor—Drew Caminetti, 2212 21st
 Ave., Oakland.

FACTORIES AND WARE- HOUSES

Preparing Plans.
ADDITION Cost, \$—
LONG BEACH, Los Angeles Co., Cal.
 Long Beach Harbor.
 Precast reinforced concrete automo-
 bile factory addition (900 feet
 long).
 Owner—Ford Motor Company.
 Architect—Albert Kahn, Inc., Detroit,
 Michigan.

Bids To Be Taken January 2.
FACTORY Cost, \$70,000
OAKLAND, Alameda Co., Cal. Eigh-
 ty-first Avenue near 14th St.
 One-story reinforced concrete factory.
 Owner—Blue Bird Potato Chips, Inc.,
 68th Ave. and Beck St., Oakland.
 Architect—Charles W. McCall, 1404
 Franklin St., Oakland.

Plans Being Figured.
FACTORY Cost, \$200,000
OAKLAND, Alameda Co., Cal. 102nd
 Avenue.
 One-story Class C concrete factory (to
 cover area of 12,000 sq. ft.)
 Owner—Hammer Bray Co., 26th Ave.
 and E-12th St., Oakland.
 Architect—Clay N. Burrell, American
 Bank Bldg., Oakland.
 Consulting Engineer—W. W. Hanscom
 26th Ave. and E-12th St., Oakland.
 Bids are being taken for a general
 contract.

Contract Awarded.
HOG PENS & YARDS Cost, \$—
SAN JOSE, Santa Clara Co., Calif.
 County Almshouse grounds.
 Hog pens and yards.
 Owner—County of Santa Clara, H. A.
 Pfister, county clerk.
 Architect—Chas. S. McKenzie, Twohy
 Bldg., San Jose.
 Contractor—Thermotite Const. Co., 550
 Stockton Ave., San Jose.
 Following is a complete list of bids:
 Thermotite Const. Co., San Jose \$6,647
 Wm. Meyer, San Jose..... 7,340
 N. J. Neilson, San Jose..... 7,450
 B. J. Smith, San Jose..... 7,613
 J. Gorhamson, San Jose..... 7,816
 W. M. Cowell..... 7,970
 Sam. Sclarimo, San Jose..... 7,987
 R. O. Summers, San Jose..... 8,130
 Collins & Martin, San Jose..... 8,531
 Megna & Newell, San Jose..... 8,800

Terrazzo & Travertine—California Ter-
 razzo & Marble Co., 2085 San Bru-
 no Avenue.

Accoustical Work—Western Asbestos
 Co., 25 South Park St.
 As previously reported, electrical
 work awarded to Aetna Elec. Co., 1337
 Webster St., at \$3260; plumbing to
 Scott Co., 243 Minna St., at \$3637.

Bids Opened.
WAREHOUSE Cost, \$—
SAN FRANCISCO. Sansome and Val-
 lejo Streets.
 Three-story reinforced concrete ware-
 house.
 Owner—Poultry Producers of Central
 California, 700 Front St.
 Architect—H. C. Baumann, 251 Kear-
 ny Street.
 Following is a complete list of bids:
 Sommarstrom Eros., 2224 San
 Pablo Ave., Oakland..... \$89,000
 K. E. Parker, San Francisco..... 89,215
 Cahill Bros., San Francisco..... 90,471
 Barrett & Hill, San Francisco..... 93,893
 MacDonald & Kahn, S. F..... 94,380
 J. L. McLaughlin, S. F..... 94,828
 De Lucca & Son, S. F..... 95,380
 Larsen & Larsen, S. F..... 95,700
 Bids held under advisement.

GARAGES AND SERVICE STATIONS

To Be Done By Day's Work By Owner
GARAGE Cost, \$25,000
SAN FRANCISCO. Third and Eigh-
 teenth Sts
 One-story and basement reinforced
 concrete garage and storage tanks
 Owner—Gilmore Oil Co., Premises.
 Architect—Eng. Dept. of Owner.
 Construction is under way.

Contract Awarded.
GARAGE Cost, \$14,000
PALO ALTO, Santa Clara Co., Calif.
 2098 El Camino Real.
 One-story class C garage.
 Owner—P. Casuarang, 318 Emerson
 St., Palo Alto.
 Architect—Not Given.
 Contractor—George Moore, premises.

Plans To Be Prepared.
AUTO AGENCY Cost, \$40,000
SACRAMENTO, Sacramento Co., Cal.
 NE 22nd and Y Sts., (120x150-ft.)
 One-story Ford automobile agency.
 Owner—Ellsworth Harrold, 712 12th
 St., Sacramento.
 Architect—Not Selected.

ORNAMENTAL WIRE AND IRON WORK

IRON
WIRE

Fence and Gates

TENNIS COURT ENCLOSURES
 WIRE SCREENS AND GUARDS

WEST COAST WIRE & IRON WORKS

SAN FRANCISCO, CALIFORNIA

86-863 Howard Street * * * 'Phone SUtter 1136

Continuous Operation Since 1887

Sub-Contracts Awarded.

GARAGE Cost price, \$26,792
BERKLEY, Alameda Co., Cal. Oxford St.

Class C concrete garage and service station.

Owner—Regents of University of California, Berkeley.

Architect—W. H. Ratchiff, Jr., Chamber of Commerce Bldg., Berkeley.

Lessee—Richfield Oil Company.

Contractor—Barrett & Hilt, 918 Harrison St., San Francisco.

Excavation and Grading—Ariss Knapp, 961 41st St., Oakland.

Mill Work—Sunset Lumber Co., 400 High St., Oakland.

Brick Work—Victor Devight, 1828 Milvia St., Berkeley.

Glass—Cobbedick-Kibbe Glass Co., 301 Washington St., Oakland.

Painting—J. H. Devort, 912 Harrison St., San Francisco.

Plastering—A. J. Hillam, 354 Hobart St., Oakland.

Roofing—Western Roofing Co., 1737 Telegraph Ave., Oakland.

Sheet Metal—Superior Metal Products Co., 4400 Market St., Oakland.

Mis. Iron—Franneder Ornamental Iron Works, 335 8th St., Oakland.

Steel Sash—U. S. Metal Products Co., 354 Hobart St., Oakland.

Structural Steel—California Steel Co., Inc., Second and Harrison Sts., Oakland.

Acoustite Tile—Rigney Tile Co., 3012 Harrison St., Oakland.

Toilet Partitions—Dwan & Co., 534 Sixth St., San Francisco.

GOVERNMENT WORK AND SUPPLIES

RED BLUFF, Tehama Co., Cal.—Roy A. Brees, Red Bluff, at \$193 submitted low bid to Treasury Department for painting plaster interior of the post office. Complete list of bids follow:

R. A. Brees	.....\$1193
A. Olson Co., Chicago	.....1762
C. D. Lythe, Red Bluff	.....1985
Geo. Forbes, Red Bluff	.....2330

Taken under advisement.

PALO ALTO, Santa Clara Co., Cal.—Standard Fence Co., 432 Bryant St., San Francisco, at \$397 awarded contract by Supervising Superintendent of Construction, U. S. Veterans' Hospital, Palo Alto, for furnishing and installing ten window guard rails for Building No. 205, at the U. S. Veterans' Hospital, Palo Alto.

Bids To Be Asked Shortly.

BARRACKS Cost, \$195,000
MARE ISLAND, Cal. Submarine Repair Base
 Reinforced concrete barracks and mess hall (Spec. 6230).

Owner—U. S. Government.

Plans by Bureau of Yards and Docks, Navy Dept., Washington, D. C.

The work includes the construction of a barracks and mess hall building having reinforced concrete walls and slabs, concrete piles, cement mortar finish floors, tile floors, marble work, miscellaneous steel and iron work, hollow tile work, wood roof framing and sheathing, clay tile roofing and sheet metal work, metal studing and lathing, plaster and stucco work, artificial stone work, wood doors and windows, hollow metal doors, vault door, refrigeration, plumbing, heating, electrical work and painting.

Persons wishing to obtain bidding data should forward to the Bureau, or to the Commandant, Navy Yard, Mare Island, Calif., a check or postal money order for \$25.00, payable to the Chief of the Bureau of Yards and Docks, as security for the safe return

of the drawings and specifications, requesting a set of the same. Applications and deposits will be placed on file and the drawings and specifications mailed as soon as they are available.

Plans Being Figured—Bids Close Jan. 28, 3 P. M.
FEDERAL BLDG. Cost, \$160,000
POMONA, Los Angeles County, Calif.

Thomas St. bet. 4th and 5th.

Two-story fireproof federal building with terra cotta facing.

Owner—U. S. Government.

Architect—Supervising Architect, Treasury Dept., Washington, D. C.

See call for bids under official proposal section in this issue.

Bids To Be Asked Shortly.

PEARL HARBOR, T. H. Naval Operating Air Station.
 Seaplane Hangar (Spec. No. 6215).

Owner—U. S. Government.

Plans by Bureau of Yards and Docks, Navy Dept., Washington, D. C.

The work includes earthwork, concrete piling and foundations, concrete block partition, steel and iron work, steel windows, roofing, siding and sheet metal work, metal covered doors, timber work, glazing and painting.

Persons wishing to obtain bidding data should forward to the Bureau, to the Commandant, Naval Operating Base, Pearl Harbor, T. H., or to the Commandant, Navy Yard, Mare Island, Calif., a check or postal money order for \$10.00, payable to the Chief of the Bureau of Yards and Docks, as security for the safe return of the drawings and specification, requesting a set of same. Applications and deposits will be placed on file and the drawings and specifications mailed as soon as they are available.

SAN FRANCISCO—Until December 30, under Circular No. 41, bids will be received by Signal Supply Officer, Fort Mason, for 16 switchboard keys, 36 relays, 160 ringers, 400 transmitter heads, 100 sleeves and 25,000 tags. Further information obtainable from above.

COCO SOLO, C. Z.—Bids will be asked shortly by the Bureau of Yards and Docks, Navy Department, Washington, D. C., for 3-ton electric bridge crane, 1-ton hand operated bridge crane and 1½-ton trolley chain hoist at Coco Solo, C. Z. Specifications (No. 6357), obtainable from above office on deposit of \$10, returnable.

SAN FRANCISCO—Until December 23, 10 A. M., under Schedule No. 928-31-158, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver 650 condenser tubes; seamless Admiralty metal, not tinued, 10-ft.,

2½-in. long, ¾-in. outside diameter, number 18 Birmingham or Stuba wire knuge (¼-in. thick). To be packed in cases or crates suitable for domestic shipment.

1400 brass condenser tube ferrules, ¾-in. in. per sample on file in above office.

Further information obtainable from above.

SAN FRANCISCO—Kewahnee Boiler Co., 637 Minna St., at \$592 delivered, Fort Mason, and \$2982 delivered Fort McDowell, submitted only bid to Constructing Quartermaster, Fort Mason, to furnish three 100-h. p. boilers at Central Heating Plant at Fort McDowell.

SAN FRANCISCO—Until December 23, 10 A. M., under Schedule No. 928-31-158, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver hardwood lumber, 1st and 2nd grades, rough, as follows:

24 pcs. Oak, 1x12-in., 14-ft. long.

24 pcs. Ash, 1x12-in., 14-ft. long.

24 pcs. Apitong, 1x12-in., 14-ft. long.

24 pcs. Yang, 1x12-in., 14-ft. long.

(Lowest priced item of above four species only will be awarded.)

8 pcs. Oak, 3x12-in., 14-ft. long.

8 pcs. Oak, 2x12-in., 14-ft. long.

8 pcs. Apitong, 1x12-in., 14-ft. long.

8 pcs. Yang, 2x12-in., 14-ft. long.

(Lowest priced item of above four species only will be awarded.)

6 pcs. Oak, 3x12-in., 14-ft. long.

6 pcs. Oak, 3x12-in., 14-ft. long.

6 pcs. Apitong, 3x12-in., 14-ft. long.

6 pcs. Yang, 3x12-in., 14-ft. long.

(Lowest priced item of above four species only will be awarded.)

Further information obtainable from above.

12 pcs. O. P. or Douglas Fir lumber "B and Better," flat grain, 2x4-in., 14-ft. long.

4 pcs. Bay Poplar lumber, 1st and 2nd grades, rough, 1x16-in., 14-ft. long.

Further information obtainable from above.

Plans Completed.

RADIO BLDG. Cost, \$6500
FLYFIELD, Arizona Near Yuma.

One-story brick operation building (radio and meteorological observation work).

Owner—United States Government.

Architect—Const. Quartermaster, Fort Mason, San Francisco.

Steel sash, steel doors, electric heaters and stoves, plumbing, etc.

Work will be handled by Sargent at Flyfield, Arizona.

"Gold Medal" Safety Scaffolding

for use on steel and concrete frame buildings, saves lives, time and money

It pays to use the best Scaffolding Equipment whenever a Scaffold is required. The risk is always great.

The Patent Scaffolding Company

270—13th St., San Francisco

Phone Hemlock 4278

Lessor of Suspended and Swinging Safety "Gold Medal" Scaffolding.

Final Plans Approved.
GATES, ETC. \$17,000 Available
SAN FRANCISCO. Presidio (National Cemetery).
Granite and bronze gates, urns, etc., at entrance to National Cemetery. Owner—United States Government. Architect—Constructing Quartermaster, Fort Mason.
Bids will be advertised for in one week.

WASHINGTON, D. C.—Bids are being received by Bureau of Supplies & Accounts, Navy Department, Washington, D. C., to furnish and deliver miscellaneous supplies and equipment as noted in the following schedules, further information being available from the Navy Department Officer, 100 Harrison St., San Francisco:
Bids Open Jan. 6

Mare Island, gas inspirator sets, gate valves, and tunnel type burners, sch. 4727.

Mare Island, 1 testing machine, complete for compressed gas cylinders, sch. 4741.

San Francisco, 1 motor driven planer and jointer, sch. 4749.

Mare Island, 1 proof press and 1 motor driven paper cutter, sch. 4760.

San Diego, 1 motor driven air compressor, sch. 4765.

Mare Island, 1 motor generator set, sch. 4742.

Mare Island, 1 portable testing set, bridge generator, sch. 4768.

Western yards, bells and buzzers, vibrating horns and waterproof horns, sch. 4771.

Western yards, machinists' chisels, chisel blanks, sch. 4770.

Bids Open Jan. 13

Puget Sound, 1 motor driven precision lathe, sch. 4756.

Western yards, steel shapes, sch. 4757.

San Francisco, 1 motor driven drill press with tapping attachment, sch. 4755.

Mare Island, 1 portable gasoline engine driven arc welding set, sch. 4763.

Puget Sound, 3850 lbs. nickel, for remelting, sch. 4774.

Western yards, bar steel, sch. 4758.
San Francisco, 2 motor driven band saws, sch. 4767.

Western yards, iron and steel and brass welding rods, etc., sch. 4772.

Western yards, clamps, cutters, holders, punches, sockets, dies, spikes and dies, sch. 4778.

SAN FRANCISCO—Until January 15, under Circular No. 15, bids will be received by the Depot Quartermaster, Fort Mason for repairing certain roads at Fort Mason. Specifications obtainable from above.

SAN FRANCISCO—Until Jan. 2nd, 11 A. M., bids will be received by Constructing Quartermaster, Ft. Mason, for alterations to electric feeding system at Letterman General Hospital. Specifications obtainable from above.

STOCKTON, San Joaquin Co., Cal.—U. S. Treasury Department has purchased site 252 by 303 ft. in area bounded by Hunter, Lindsay, San Joaquin and Fremont streets, on which to erect new postoffice for which \$695,000 is available. Plans for the structure will probably be prepared by the Supervising Architect, Treasury Department, Washington, D. C.

QUARRY HEIGHTS, C. Z.—See "Reservoirs and Dams," this issue. Bids opened by Constructing Quartermaster, Quarry Heights, to construct reservoirs, etc.

SAN FRANCISCO—Congresswoman Florence Kahn will seek \$500,000 appropriation to finance construction of a sea wall at Crissy Field, San Francisco Presidio.

Preparing Working Drawings.
WARD BLDGS. \$115,000 Available.
SAN FRANCISCO. Presidio Reservation (Letterman General Hospital)
Two two- and three-story reinforced concrete ward buildings (Wards Nos. 10 and 11).
Owner—United States Government.
Architect—Constructing Quartermaster, Fort Mason, San Francisco.
Bids will be taken in about thirty days.

SAN DIEGO, Cal.—Fred F. Greenfield Co., 1308 W 7th St., Los Angeles, submitted the low bid of \$103,000 to Bureau of Yards and Docks, Navy Department, Washington, D. C., Dec. 17, for the construction of a shop building at the Naval Operating Base (Air Station), San Diego. Specification No. 6276. The work includes concrete, brick and hollow tile work, structural steel, metal doors, metal and wire mesh partitions, steel windows, dumb waiters, roofing and sheet metal work, wood block flooring, mastic flooring, plastering, gas and air piping and heating, plumbing and electrical work.

SAN FRANCISCO.—Constructing Quartermaster, Fort Mason, is preparing plans for remodeling the hot water heating plant at the Commanding General's quarters, involving installation of a new boiler, additional radiation and piping.

HALLS AND SOCIETY BUILDINGS

Bids Opened.
CLUB HOUSE Cost, \$—
SALADA BEACH, San Mateo Co., Cal.
Sharp's Beach.
One-story frame and stucco clubhouse (100x40 ft.)
Owner—City and County of San Francisco (Park Commission).
Architect—Willis Polk Co., 277 Pine St., San Francisco.
Following is a complete list of the bids received:
F. J. Reilly, 6350 Fulton St., San Francisco\$23,783
J. Harold Johnson, S. F.24,479
Sullivan & Sullivan, Oakland24,499
Henry Papenhause, S. F.24,800
C. C. & H. H. Haun, S. F.24,987
A. F. & C. W. Mattock, S. F.25,200
John Bjorkman, S. F.25,637
Clinton Stephensen Con. Co., S. F.25,763
Jacks & Irvine, S. F.26,546
H. L. Petersen, S. F.26,729
Meyer Bros., S. F.28,950
Two low bids held under advisement.

Contract Awarded.
MEMORIAL HALL Cost, \$10,000
LINCOLN, Elmer Co., Cal.
American Legion Memorial Hall.
Owner—County of Placer.
Architect—Starks & Flanders, Forum Bldg., Sacramento.
Azevedo & Sarmiento, Sacto.\$ 9,999
Contractor—Azevedo & Sarmiento, 920 O St., Sacramento.

Following is a complete list of bids received:
Lindgren & Swinerton, Inc., Sacramento10,487
J. M. Stoffel, Roseville10,907
Chas Unger, Sacramento10,926
H. J. Hopkinson, Sacramento10,997
P. F. Bender11,166
H. H. Feddicord, Lincoln12,745

To Be Done By Day's Work By Owner.
GATE LODGE Cost, \$—
HILLSBOROUGH, San Mateo Co., Cal.
One-story brick veneer and plaster gate lodge with reinforced concrete basement.

crete basement.
Owner—W. Cowgill.
Architect—Farr & Ward, 68 Post St., San Francisco.
Mill Work—J. A. Hart Mill & Lumber Co., Jerrold and Napoleon Sts., San Francisco.

Preliminary Plans Being Prepared.
CLUB BLDG. Cost, \$—
SAN FRANCISCO. S Clay St. 85 E Powell St.
Club building (height and type of structure not determined).
Owner—Y. W. C. A., 620 Sutter St.
Architect—Miss Julia Morgan, Merchants' Exchange Bldg.

HOSPITALS

Contract Awarded.
SERVICE BLDG. Cont. price, \$97,280
SAN JOSE, Santa Clara Co., Calif.
Two-story reinforced concrete service building.
Owner—County of Santa Clara.
Architect—Elder & Curtis, 35 W San Carlos St., San Jose.
Contractor—J. D. Carlsen, 1331 Sierra St., San Jose.

SAN FRANCISCO.—Dohrmann Hotel Supply Co., 972 Mission St., at \$2,301.62 awarded contract by City Purchasing Agent, under Quotation No. 1741, to furnish and deliver kitchen equipment for "Kitchen" at Laguna Honda Home Branch, northwest corner Clara and Ritch Sts.

Plans Being Figured—Bids Close Jan. 7, 8 P. M.
HEALTH CENTER Approx. \$10,000
SAN LEANDRO, Alameda Co., Cal.
One-story frame and stucco health center.
Owner—City of San Leandro.
Architect—James Narbett, 466 31st St. Richmond.

Plans To Be Prepared.
HOSPITAL Cost (first unit) \$83,500
RENO, Nevada.
First Unit of New County Hospital.
Owner—County Washoe, E. H. Beemer, county clerk.
Architect—Not Selected.

It is proposed to secure the necessary funds by bond issue or direct tax levy.

SAN FRANCISCO—Regents of the University of California will seek \$1,000,000 from the State Legislature for an expansion program in San Francisco. The fund will provide for the proposed \$1,000,000 out-patient building to be erected in Parnassus Ave. fronting the present University Hospital Buildings.

Contracts Awarded.
HOSPITAL Cost, \$114,000
STOCKTON, San Joaquin Co., Cal.
State Hospital Grounds.

Two-story and part basement reinforced concrete hospital and two-story reinforced concrete industrial building.

Owner—State of California.
Architect—State Department of Public Works, Division of Architecture, Geo. B. McDougall, State Architect, Public Works Bldg., Sacramento.

Hospital building will be of reinforced concrete with tile and solid plaster partitions, wood roof construction and tile roof and a total floor area of 14,500 square feet.

The industrial building will be of concrete construction, wood and concrete second floor construction, steel roof construction and a total floor area of approximately 6150 sq. ft.

General Work
Sorensen & Haggmark, 2652 Harrison St., San Francisco....\$69,223

Plumbing and Heating
J. C. Black, 721 W. Elm St.,
Stockton\$14,900
Electrical Work
Collins Electric Co., 708 E. Mar-
kot St., Stockton\$3,381

LOS ANGELES, Cal.—All bids for
turning the lighting fixtures at the
Acute Unit of the General Hospital
were rejected by the county super-
visors Dec. 15 and amended plans and
specifications ordered. New bids will
be called later.

HOTELS

Plans Being Figured.
HOTEL Cost, \$700,000
YAKIMA, Wash.
Thirteen-story and basement fireproof
hotel (200 rooms, private dining
rooms, coffee shop and several
stores).
Owner—Naches Hotel Co. (J. G. Van
Herberg, president), Seattle,
Washington.
Architect—Henry Bittman, Securities
Bldg., Seattle, Wash.

POWER PLANTS

ST. HELENA, Napa Co., Cal.—Pac-
ific Gas and Electric Co., 245 Mar-
ket St., San Francisco, has author-
ized an \$188,000 expenditure to finance
construction of 34 miles of 60,000-volt
transmission line between Cordelia,
Solano County and St. Helena, Napa
County, including reconstruction of
the St. Helena substation and other
projects.

HEALDSBURG, Sonoma Co., Cal.—
Pacific Gas and Electric Co., 245 Mar-
ket St., San Francisco, authorizes
\$29,200 expenditure to replace trans-
formers and regulators at Healds-
burg sub-station.

Prospective Bidders
POWER HOUSE Cost, \$40,000
SAN FRANCISCO. Third Avenue and
Parnassus Street.
One-story steel frame and concrete
power house.

Owner—University of California.
Architect—Wm. C. Hays, Crocker 1st
Nat'l Bank Bldg., San Francisco.
Following is a list of contractors
who have secured plans:

E. T. Lesure, 57 Ross Circle, Oak-
land.
Reavey & Spivock, Shell Oil Bldg.,
San Francisco.

Sjoberg & Son, Call Bldg., San
Francisco.

J. A. Bryant, 185 Stevenson St.,
San Francisco.

A. Nelson, 242 Ocean Ave., San
Francisco.

F. J. Reilly, 6350 Fulton St., San
Francisco.

Clinton-Stephenson Constr. Co., Mo-
nadnock Bldg., San Francisco.

J. S. Hannah, 263 Market St., San
Francisco.

Sullivan & Sullivan, 2653 Best Ave.,
Oakland.

C. Dudley De Velbiss, 369 Pine St.,
San Francisco.

Ralph McLeran, Hearst Bldg., San
Francisco.

Villadsen Bros., 417 Market St., San
Francisco.

J. W. Cobby & Son, 260 Tehama St.,
San Francisco.

Wm. Spivock, Hobart Bldg., San
Francisco.

Vogt & Davidson, 185 Stevenson
St., San Francisco.

Barrett & Hill, 918 Harrison St.,
San Francisco.

Jacks & Irvine, 74 New Montgomery
St., San Francisco.

Bids are to be opened January 2, at
11 A. M.

LOS ANGELES, Cal.—General Elec.
Supply Co. submitted low bid to the
city purchasing agent Dec. 18, for
transformers under Specifications No.
2239. The bids were:

General Electric Co.: (1) \$639.89
each for five 20-kw. subway type con-
stant current transformers, (2) \$779.30
each for five 30-kw. subway type
transformers.

Westinghouse Elec. & Mfg. Co.: (1)
\$686.45, (2) \$826.01.

Both bids were net.

Plans Being Prepared.

ADDITION Cost, \$—
ST. HELENA, Napa Co., Cal.
Addition to Sub-Station.
Owner—Pacific Gas & Electric Co.,
245 Market St., San Francisco.
Plans by Eng. Dept. of Owner.
Work will be handled by owners.

Plans Being Prepared.

ADDITION Cost, \$—
YOUNTVILLE, Napa Co., Cal.
Addition to Sub-Station.
Owner—Pacific Gas & Electric Co.,
245 Market St., San Francisco.
Plans by Eng. Dept. of Owner.
Work will be handled by owners.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

Bids to Be Asked About January 5.
JAIL COST \$100,000

SALINAS, Monterey Co., Cal.
Fireproof county jail (accommodation
for 100 prisoners; concrete or brick
construction).

Owner—County of Monterey.
Architect—Reed & Corlett, Oakland
Bank of Savings Bldg., Oakland.

Preliminary Plans Prepared.

ADDITION Cost, \$160,000
SAN MARINO, Los Angeles Co., Cal.
Huntington Library.
Reinforced concrete addition to library
and stack room addition.
Owner—City of San Marino.
Architect—Myron Hunt and H. C.
Chambers, California Reserve
Bldg., Los Angeles.

Sub-Contracts Awarded.

REMEDIATING CON- price, \$11,253
SAN CARLOS, San Mateo Co., Cal.
Remodel City Hall (frame and stucco
construction).
Owner—City of San Carlos.
Architect—E. L. Norberg, 580 Market
St., San Francisco.

Contractor—Moody J. Henry, 132 Ban-
croft St., Burlingame.

Concrete—J. W. Morey, Menlo Park.
Reinforcing Steel—W. C. Hauck, 280
San Bruno Ave., San Francisco.

Lumber—San Carlos Lbr. Co.
Mill Work—Progress Mill, Redwood
City.

Plumbing—Wm. Scott, San Carlos.
Sheet Metal and Roofing—Ismarian
Roofing Co., San Mateo.

Electric Work—M. E. Ryan, Redwood
City.

Plastering—N. S. McCartney, Burlin-
game.

Painting—H. L. Webb, San Carlos.

Miscellaneous Iron—Mortenson Const.
Co., 608 Indiana St., San Francisco.

Price is desired on 2400 ft. of maple
flooring and seventeen 8-inch bronze
letters.

Plans Being Figured—Bids Close Jan.
5, 11 A. M.

COURTHOUSE Cost, \$7000
SAN JOSE, Santa Clara Co., Cal.

Install elevator in courthouse.
Owner—County of Santa Clara, Henry
A. Pfister, County Clerk.

Architect—Blinder & Curtis, 35 San
Carlos St., San Jose.

Certified check 10% payable to
county clerk required with bid.
Specifications on file in office of clerk.

CITY HALL Cost, \$175,000
SAN BERNARDINO, San Bernardino
Co., Cal.
Four-story and basement reinforced
concrete city hall (60x100 feet).
Owner—Community Underwriters, Inc.
Architect—John M. Cooper, Ilyes-
Strong Bldg., Los Angeles.

RESIDENCE

Plans Being Figured.
RESIDENCE Cost Approx., \$20,000
SANTA CRUZ, Santa Cruz Co., Cal.
Two-story and basement frame and
stucco residence.
Owner—Dr. Percy Phillips, 286 Wal-
nut St., Santa Cruz.
Architect—W. H. Weeks, 111 Sutter
St., San Francisco.

Construction Postponed.
ALTERATIONS Cost, \$—
HILLSBOROUGH, San Mateo County,
Cal. 1005 Jacklin Drive.
Alterations and additions to residence.
Owner—John E. Manders, premises.
Architect—Henry H. Guttersen, 526
Powell St., San Francisco.

To Be Done By Day's Work.
RESIDENCE Cost, \$10,000
PALO ALTO, Santa Clara Co., Calif.
1875 Middlefield Road
Two-story and basement frame and
stucco residence.
Owner and Builder—L. E. Kingham,
432 College Ave., Palo Alto.
Architect—Chas. K. Sumner, 57 Post
St., San Francisco.

Bids Opened.
RESIDENCE Cost, \$7500
AGNEWS, Santa Clara Co., Cal. State
Hospital.
Two-story and basement frame and
stucco residence.
Owner—State of California.
Architect—Geo. B. McDougall, State
Architect, Public Works Bldg.,
Sacramento.

Following is a complete list of the
bids received:

The Minton Co., Mt. View	\$7,335
F. J. Nielsen, San Jose	7,784
N. S. Swensen, San Jose	7,829
J. F. Shepherd, Stockton	7,942
Megna & Newell, San Jose	7,954
Doyle Bldg. Co., Mt. View	7,998
G. N. Latta, San Jose	8,150
P. T. Edmans, San Jose	8,346
George L. Honore, San Jose	8,648

Bids held under advisement.

Plans Being Prepared.
RESIDENCE Cost, \$7000
PERKELEY, Alameda Co., Calif.
Two-story frame and stucco residence
(6 rooms).
Owner—H. Kingman.
Architect—Williams and Wastell, 374
17th St., Oakland.

To Be Done By Day's Work
RESIDENCE Cost, \$15,000
OAKLAND, Alameda Co., Cal. 5591
Country Club Drive.
Two-story and basement frame and
stucco residence (10 rooms and gar-
rage).
Owner and Builder—J. M. Olsen, 974
Park St., Oakland
Architect—Not Given

Sub-Bids Being Taken.
RESIDENCE Cost, \$10,000
SAN FRANCISCO 8 Marina Blvd W
Fillmore St.
Two-story and basement frame and
stucco residence.
Owner—A. Thurán.
Architect—Irvine & Ebbets Call Bldg.
Building
Contractor—M. P. Jorgensen, 2228 No.
Point St

Contract Awarded.

RESIDENCE Cost, \$12,000
SAN MATEO, San Mateo Co., Calif.
 628 Burlingame Ave.
 Two-story frame and stucco residence
 Owner—Mrs. Annie S. Houser, 50 Clark
 Drive, San Mateo.
 Architect—Not Given.
 Contractor—Albert M. Schulte, 120
 Bancroft Ave., San Mateo.

Preparing Plans.

FRATERNITY HOUSE Cost, \$50,000
WEST LOS ANGELES, Cal. No. 655
 S. Gayley Ave.
 Two-story and basement reinforced
 concrete fraternity house (35
 rooms).
 Owner—California Deta Bldg. Assn.,
 (Harry Weidner, President).
 Architect—Kemper Nomland, Archi-
 tects Bldg., Los Angeles.
 Lessee—Sigma Alpha Epsilon Frater-
 nity.

Contract Awarded.

ADDITION Cost, \$9000
BERKELEY, Alameda Co., Cal. No.
 9 Canyon Road.
 Addition to present two-story frame
 and stucco residence (add 4
 rooms).
 Owner—M. Lincoln Hutchinson.
 Architect—Wm. Hays, Crocker First
 National Bank Bldg., S. F.
 Contractor—W. Nagal, 1932 Haste St.,
 Berkeley.

Bids Wanted—To Be Opened Jan. 5.
RESIDENCE Cost Approx. \$20,000
SANTA CRUZ, Santa Cruz Co., Cal.
 Two-story and basement frame and
 stucco residence.
 Owner—Dr. Percy Phillips, 236 Wal-
 nut St., Santa Cruz.
 Architect—W. H. Weeks, 111 Sutter
 St., San Francisco.

Contracts Awarded.

ALTERATIONS Cont. Price \$4636
SAN FRANCISCO. No. 2645 Lake
 Street.
 Alterations to two-story frame and
 stucco residence (new library, sun
 room, kitchen, pantry room, etc.)
 Owner—D. S. Spector.
 Architect—Bertz, Winter & Maury,
 210 Post St., San Francisco.
 Contractor—Young & Horstmeier, 461
 Market St., San Francisco.
Painting—Baldacci & Gaddini, 1222
 Sutter St., San Francisco.

Sub-Bids Being Taken.

RESIDENCE Cost, \$8000
SAN FRANCISCO Denning Way and
 Lower Terrace.
 One-story and basement frame and
 stucco residence (5 rooms).
 Owner and Builder—Henry C. Mangels,
 1142 Naples St., San Francisco.
 Architect—Chas. Strothoff, 2274 15th
 St., San Francisco.

Plans Being Completed.

RESIDENCE Cost, \$6000
HOPLAND, Mendocino Co., Cal.
 One-story and basement frame resi-
 dence (7 rooms). Colonial type.
 Owner—T. J. Geary, Post Office
 Bldg., Hopland.
 Architect—Irvine & Ebbetts, Call Bldg.,
 San Francisco.
 Owner will take bids for a general
 contract in one week.

Plans Completed.

RESIDENCE Cost, \$5000
ALAMEDA, Alameda Co., Cal. No.
 808 Pacific Avenue.
 One-story and basement frame and
 stucco residence (5 rooms).
 Owner—Bernita Kopf, 845 Pacific Ave.,
 Alameda.
 Plans by B. F. Kopf, 845 Pacific Ave.,
 Alameda.
 Contractor—B. F. Kopf, 845 Pacific
 Ave., Alameda.

Preparing Preliminary Plans.

RESIDENCE Cost Approx. \$40,000
MONTEREY, Monterey Co., Cal.
 Two-story and basement frame and
 stucco residence (12 rooms).
 Owner—Withheld.
 Architect—Williams & Wastell, 374
 17th St., Oakland.

December 22, 1930

Contracts Awarded.

BUNGALOWS Cost, \$—
CAMPBELL, Santa Clara Co., Calif.
 Twelve one-story frame bungalows.
 Owner—Campbell Lumber Co. (Herold
 Morton, manager), Campbell.
Plans by Owner.
 Structures will contain five and six
 rooms and will be equipped with gas
 furnaces and electric refrigerators.
 Following contractors will handle
 the construction:
 Aluf Strom, Campbell, and G. W.
 Johnson, Campbell. All materials will
 be furnished locally.

Sub-Bids Wanted.

COTTAGE Cost, \$—
IONE, Amador Co., Cal. Preston
 School of Industry.
 Two-story and part basement brick
 and frame superintendent's cot-
 tage (10 rooms).
 Owner—State of California.
 Architect—State Department of Pub-
 lic Works, Division of Architec-
 ture, Public Works Bldg., Sacra-
 mento.

Contractor—Blitrite Constr. Co., 1203

Walnut St., Berkeley.
 Sub-bids are wanted on lumber, ag-
 gregates, roofing, painting, brick work,
 tiling and mill work.
Lathing and Plastering—H. E. Phin-
 ney, 3250 Sheffield St., Oakland.
Reinforcing Steel—W. S. Wetenhall
 Co., 7th and Wisconsin Sts., S. F.
Steel Windows and Glazing—Michel &
 Pfeffer Iron Works, Harrison and
 Tenth Sts., San Francisco.

As previously reported, electric work
 awarded to Luppitt & Hawley, 3128 J
 St., Sacramento, at \$1250; plumbing
 and heating to Scott Co., 243 Minna
 St., San Francisco, at \$5365.

Sub-Figures Being Taken.

RESIDENCE Cost, \$5500
CASA MATEO, San Mateo Co., Cal.
 One-story and basement frame and
 stucco residence (5 rooms).
 Owner and Builder—Castle Bldg. Co.,
 830 Market St., San Francisco.
 Architect—Not Given.

Plans Complete.

RESIDENCE Cost, \$5500
MILLBRAE HIGHLANDS, San Ma-
 teo Co., Cal.
 One-story and basement frame and
 stucco residence (5 rooms).
 Owner and Builder—Castle Bldg. Co.,
 830 Market St., San Francisco.
 Architect—Not Given.

Sub-Bids Wanted.

RESIDENCES Cost, \$140,000
LOS ANGELES, Cal. Ivanhoe Hills.
 Nineteen two-story frame and stucco
 residences (12 rooms and 2 baths
 each).
 Owner—Albert T. Ashworth, San
 Francisco.

Architect—Paul A. Needham, Petro-
 leum Securities Bldg., L. A.
 Contractor—Consolidated Bldg. Corp.,
 Wilshire Tower Bldg., L. A.

Preliminary Plans Being Prepared.

RESIDENCES Cost each, \$5000
BURLINGAME, San Mateo Co., Cal.
 Four 2-story frame and stucco resi-
 dences (Spanish type).
 Owner—Harry B. Allen.
 Architect—E. Geoffrey Bangs, 360 17th
 St., Oakland.

Plans Being Prepared.

RESIDENCE Cost, \$—
SAN FRANCISCO, Forest Hill.
 Two-story and basement frame and
 stucco residence.
 Owner—Dr. R. Gilbert, 2033 Turk St.
 Architect—Henry Smith and Albert
 Williams, Humboldt Bank Bldg.

Sub-Figures Being Taken.

RESIDENCE Cost, \$5000
SAN FRANCISCO, St. Mary's Park.
 One-story and basement frame and
 stucco residence (5 rooms).
 Owner—A. R. Johnson, 3901 Mission.
 Architect—Not Given.

Bids Wanted To Be Opened Dec. 29th.
RESIDENCE Cost, \$—
SANTA CRUZ, Santa Cruz Co., Cal.
 Pasiatempo.

One-story frame and stucco residence
 (3 rooms).

Owner—Dr. Alister MacKenzie.
 Architect—W. W. Wurster, 260 Cali-
 fornia St., San Francisco.

SCHOOLS

SAN FRANCISCO—Until January
 5, 3 p. m., under Proposal No. 673,
 bids will be received by Leonard S.
 Leavy, city purchasing agent, 270 City
 Hall, to furnish and deliver 124 opera
 chairs in choral room of the Francisco
 Junior High School. Specifications
 and further information obtainable
 from above.

Plans Complete.

GYMNASIUM Cost, \$50,000
 Gymnasium (wood frame, roof trusses
 over gymnasium proper carried on
 steel columns) planting lawns and
 shrubbery, etc., at college grounds.
 Owner—Marin Junior College Dist.
 Architect—A. A. Cantin, 544 Market
 St., San Francisco.
 Bids will be called for shortly.

Commissioned To Prepare Plans.

SCHOOL Cost, \$50,000
YUBA CITY, Sonoma Co., Cal.
 Two-story Class C brick elementary
 school.
 Owner—Yuba City Elementary School
 District.
 Architect—Davis-Pearce Co., Grant
 and Weber Sts., Stockton.

Commissioned to Prepare Plans.

SCHOOL Cost, \$250,000
SEBASTOPOLE, Sonoma Co., Cal.
 Two-story class C brick high school.
 Owner—Analay Union High School Dis-
 trict.
 Architect—Davis-Pearce Co., Grant
 and Weber Sts., Stockton.

Plans Completed.

SCHOOL Cost, \$400,000
LOS ANGELES, Cal. No. 2955 Robert-
 son Blvd.
 Three-story reinforced concrete class-
 room and library; two-story cafa-
 teria and one-story brick shop.
 Owner—City of Los Angeles School
 District.
 Architect—J. C. Austin and F. M.
 Ashley, Chamber of Commerce
 Bldg., Los Angeles.

Plans Being Figured—Bids Close Jan.
15, 8 P. M.

GYMNASIUM Cost, \$50,000
KENTFIELD, Marin Co., Cal.
 Gymnasium (wood frame, roof trusses
 over gymnasium proper carried on
 steel columns) planting lawns and
 shrubbery, etc., at college grounds.
 Owner—Marin Junior College District.
 Architect—A. A. Cantin, 544 Market
 St., San Francisco.
 Bids will be received at architect's
 office up to 5 P. M., and at the office
 of the college until 8 P. M.

ONTARIO, San Bernardino Co., Cal.—Parent-Teachers' Association announces that parents of school children favor the new school building program, involving the expenditure of \$108,000, as recently outlined by the superintendent of Ontario schools.

Preparing Working Drawings.

ADDITIONS. Cost, \$150,000
SAN FRANCISCO. E Scott St., bet. O'Farrell and Scott Sts.

Owner—City and County of San Francisco.

Architect—F. H. Meyer, 525 Market St., San Francisco.

Plans will be ready for bids in about six weeks.

Preparing Working Drawings.

SCHOOL BLDGS. Approx. \$300,000
OAKLAND, Alameda Co., Cal. Piedmont Highlands (Edith St. near Morphe).

Group of reinforced concrete high school buildings (academic building, auditorium and gymnasium; accommodate 500).

Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.

Architect—H. A. Minton, Bank of Italy Bldg., Eddy and Powell Sts., San Francisco.

Bids will be taken in about three weeks.

Buildings will be constructed for the Sister of The Holy Name.

Preparing Schemes.

SCHOOL. Cost, \$50,000
NORTH HOLLYWOOD, Los Angeles Co., Cal.

Two-story Class C brick parochial school.

Owner—Saint Ambrose Parish (Father O'Toole, Pastor).

Architect—Henry Carlton Newton & Robert Murray, Architects Bldg., Los Angeles.

EUREKA, Humboldt Co., Cal.—Board of Education has postponed action indefinitely in the matter of constructing a swimming pool at the Eureka High School. Preliminary drawings for the proposed pool have been prepared by Architect Newton Ackerman, 102 W-4th St., Eureka.

Construction Started Today.

SCHOOL BLDGS. Cost, \$—
NAPA, Napa Co., Cal. Napa Redwoods.

Three-story reinforced concrete school buildings (4 units and chapel).

Owner—La Salle Institute, Martinez.

Architect—H. A. Minton, 525 Market St., San Francisco.

Contractor—J. P. Brennan, 354 Hobart St., Oakland.

Two football fields, two baseball diamonds and a gym for both the juniors and the senior novices will be constructed. Minor sports will also be arranged for. A swimming pool is in the plans.

Preliminary Plans Being Prepared.

SCHOOL. Cost, \$600,000
SAN FRANCISCO. Appleton St. near Highland Avenue.

Owner—City and County of San Francisco.

Architect—G. Albert Lansburgh, 140 Montgomery St., San Francisco.

Will be known as Bernal Junior High School.

SANTA BARBARA, Cal.—Until 3 P. M., January 12 (tentative date), bids will be received by the Santa Barbara board of education for the erection of a new school building on the

McKinley school site in Santa Barbara. Soule, Murphy & Hastings, architects, 116 E. Solá St., Santa Barbara. The building will contain fifteen classrooms and be a masonry structure with stucco exterior and tile roof.

Plans Being Prepared.

SCHOOL. Cost, \$600
HURNEY, Shasta Co., Cal.

One-story frame and stucco school and community center (2 rooms).

Owner—Mt. Hurney Elementary School District.

Architect—Ralph Taylor, Alturas.

Siding or Shingle exterior finish, composition shingle roof, Oregon pine flooring, hot air heating system, wood furnace.

SAN FRANCISCO.—Following contracts awarded by Leonard S. Leavy, city purchasing agent, to furnish and deliver athletic goods for School Department and Playground Commission, under Proposal No. 640:

Athletic Goods

Part 1—For School Dept.

Item 1—For School Dept., 15 dozen baseballs, Spalding No. 00, at \$9.30 doz.; A. G. Spalding & Bros., contractor.

Item No. 2, 4 doz. bats, baseball: F. P. M., at \$13.20 doz.; McMullin & McNamara.

Item No. 3, 3 sets bases, outdoor: Reach No. E3, at \$3.85 set; Adolph Blalich, Inc.

Part 2—For Playground Commissioners: Item No. 4, 7 doz. bats, baseball; regulation (2 awards), Spalding No. 200, at \$15 doz.; A. G. Spalding & Bros.

8 doz. bats, baseball; regulation (2 awards), 40 L. G. ash, any length, at \$14.90 doz.; Baker, Hamilton & Pacific Co.

Item No. 5, 15 doz. bats, baseball; regulation; 40 L. G. hickory, any length, at \$15.50 doz.; Baker, Hamilton & Pacific Co.

Item No. 6, 45 doz. bats, indoor or playground, on City Sample, at \$4.75 doz.; McMullin & McNamara.

Item No. 7, 10 doz. baseballs; regulation, Reach No. 0, at \$12.37 doz.; Adolph Blalich, Inc.

Item No. 8, 170 doz. balls, indoor or playground, at \$3.45 doz.; Phil B. Rekart.

Item No. 9, 2 doz. sets bases, regulation hardbaseball bases, Spalding 2, at \$60 doz. sets; A. G. Spalding and Bros.

Item No. 10, 1 doz. gloves, catchers: No. 512, at \$33 doz.; McMullin & McNamara.

Item No. 11, 3 doz. tennis nets, double court, Spalding No. 2-0, at \$132 doz.; A. G. Spalding & Bros.

Item No. 12, basket balls (4 awards): 5 doz. basket balls, Spalding P. G. O., at \$4 doz.; A. G. Spalding & Bros.

1 doz. basket balls, Rawlings Special at \$73.78 doz.; C. F. Weber & Co.

2 doz. basket balls, 83 S Goldsmith, at \$60.30 doz.; Shreve & Barber, Ltd.

2 doz. basket balls, No. 48, at \$69.50 doz.; McMullin & McNamara.

Item No. 13, 3 doz. whistles, No. 315 at \$2.50 doz.; Baker, Hamilton & Pacific Co.

NOTE—All above awards are made to the lowest bidder, except when the award is made in consideration of deliveries or on account of the quality as determined or recommended by the Purchaser of Supplies.

SAN FRANCISCO.—Following contracts awarded by Leonard S. Leavy, city purchasing agent, under Proposal No. 659, to furnish manufactured furniture for the School Department:

70 lookingglass tables at \$15.40 each
C. F. Weber & Co., Inc.

175 cafeteria tables, at \$6.50 each, Home Mfg. Co.

30 mechanical drawing tables at \$79.50 each; Home Mfg. Co.

200 primary tables, 19-in., at \$2.75 each; R. Brandlin & Co.

250 primary tables, 21-in., at \$2.75 each; R. Brandlin & Co.

250 primary tables, 25-in., at \$2.75 each; R. Brandlin & Co.

250 primary tables, 29-in., at \$2.75 each; R. Brandlin & Co.

STOCKTON, San Joaquin Co., Cal.—Pacific Gas & Electric Co., Stockton branch, submitted only bid to August School District to furnish and install four floor type and seven central type Fraser furnaces in school taken under advisement.

Bids To Be Taken Dec. 29. To Be Opened Jan. 27, 4:15 P. M.

SCHOOL. Cost, Approx. \$400,000
OAKLAND, Alameda Co., Cal. 45th Ave. and Foothill Blvd (Fremont High School Site).

Three-story and basement steel frame and concrete high school with tile roof.

Owner—City of Oakland School Dist

Architect—Charles W. McCall, 1404 Franklin St., Oakland.

SAN FRANCISCO.—Following contracts awarded by city purchasing agent to furnish and deliver stock furniture for School Department, under Proposal No. 658:

Item No. 1, 1500 chairs, assembly folding on sample "A" at \$2.95 each; Fred E. Turner, Stockton, Cal.

Item No. 2, 500 chairs, primary, 12-inch, at \$1; H. S. Crocker Co., San Francisco.

BERKELEY, Alameda Co., Calif.—Pacific Heating & Ventilating Co., at \$2,230 awarded contract by Board of Education, 2325 Milvia St., to furnish and install heating equipment in Franklin School on San Pablo Avenue between Virginia and Francisco Sts.

BERKELEY, Alameda Co., Calif.—Worley & Co., 39 Natoma Street, San Francisco, at \$1,256.10 awarded contract by Board of Education, 2325 Milvia St., to furnish and install steel lockers in Burbank Junior High School in south side of Adson St. between Prown and Curtis Sts.

BANKS, STORES & OFFICES

Sub-Contracts Awarded

ALTERATIONS. Cost, \$—
SAN FRANCISCO. 209-229 Golden Gate Avenue.

Alterations to building for offices, etc. Owner—Warner Brothers, 245 Golden Gate Avenue.

Architect—G. Albert Lansburgh, 140 Montgomery St.

Contractor—Dinwiddie Const. Co., Crocker Bldg.

Electrical Work—Globe Electric Co., Mission and 15th Sts.

Plumbing—Higgins & Kraus, 730 Tehama Street.

Sprinkler System—Grinnell Co., Fifth and Prannan Sts.

Sheet Metal—Capitol Art Metal Co., 1129 Howard St.

Roofing—J. W. Bender, 18th and Bryant Streets.

Glass—Type Bros., 666 Townsend St.

Plans Being Completed.

BANK. Cost, \$60,000
LOS GATOS, Santa Clara Co., Cal. Main St. and Santa Cruz Avenue (52x100 feet)

One-story reinforced concrete bank with tile roof (ornamental stone and accoustical plaster).

Owner—Bank of Italy.

Architect—H. A. Minton, Bank of Italy Bldg., Eddy and Powell Sts., San Francisco.

There will be two stores, 20x12 feet in connection with building.

Bids will be taken in about ten days.

To Be Done By Day's Work By Owner
OFFICES Cost, \$100,000
INGLEWOOD, Los Angeles Co., Cal.
NE Commercial and Manchester
Blvd.

Two-story and basement Class A concrete offices (65x90 feet).
Owner—Los Angeles Gas & Electric Co., 810 S. Flower St., L. A.
Architect—Eng. Dept. of Owner.

Plans Being Completed.
BANK Cost, \$50,000
MONTEREY, Monterey Co., Cal. SE
Alvarado and Franklin Sts.

One-story and basement reinforced concrete bank and store building (2 stores).

Owner—B. F. Wright, Monterey.
Architect—W. H. Weeks, 111 Sutter St., San Francisco.

Lessee—Bank of Italy and Palace Drug Company.
Mr. H. A. Minton, Bank of Italy Bldg., San Francisco, will prepare plans for the interior bank fixtures, etc.

Bids will be taken in about two or three weeks.

Preparing Plans.
OFFICE BLDG. Cost, \$3,500,000
LOS ANGELES, Cal. SW First and Spring Streets.

Thirteen-story Class A reinforced concrete newspaper and office building (165x365 feet).

Owner—Los Angeles Times.
Architect—Gordon B. Kaufmann, Union Bank Bldg., L. A.

Preparing Plans.
PUBLISHING BLDG. Cost, \$500,000
LOS ANGELES, Cal. Broadway bet. First and Second Sts.

Three-story and basement reinforced concrete Class A publishing building (110x165 feet).

Owner—Times Mirror Co.
Architect—Gordon B. Kaufmann, Union Bank Bldg., Los Angeles.

Sketches Being Prepared.
BANK Cost, \$75,000
SAN MATEO, San Mateo Co., Cal. B St. and Third Ave (110 ft. frontage).

One-story concrete bank.
Owner—Bank of Italy.
Architect—H. A. Minton, Bank of Italy Bldg., Eddy and Powell Sts., San Francisco.

Plans Being Figured.
OFFICES Cost, \$—
SAN FRANCISCO. Post and Scott Streets.

Three-story brick offices.
Owner—Eureka Benevolent Society, 436 O'Farrell St., San Francisco.
Architect—Hyman & Appleton, 68 Post St., San Francisco.

Contract Awarded.
MARKET Cost, \$55,000
FRESNO, Fresno Co. Cal. Golden State Highway near Van Ness Ave.

One-story brick and steel drive-in market (U-shape, containing 16 stores).

Owner—E. Schmitz, 207 Broadway, Fresno.
Private plans.
Contractor—Clarence J. McIntyre, 774 Elizabeth St., Fresno.

Contract Awarded.
STORE Cost, \$30,000
PITTSBURG, Contra Costa Co., Calif. E 4th St. bet. Black Diamond and Fourth Sts.

One-story tile store.
Owner—K. E. Parker Co., 135 South Park St., San Francisco.
Contractor—Victor A. Kaufenberg, 80 E 5th St., Pittsburg.

Contract Awarded.
STORES Cost, \$110,000
LOS ANGELES, Cal. 801-803 Flower Street.

Five-story class A reinforced concrete stores and offices (45x152).

Owner—Ori Realty Company.
Architect—Edwin Bergstrom, Citizens National Bank Bldg., Los Angeles.

Contractor—A. V. Perkinson, Inc., 3977 S Vermont Ave., Los Angeles.

Preparing Working Drawings.
LOFT BLDG. Cost, \$50,000
SAN FRANCISCO. Location Withheld
Two-story steel frame and concrete loft building.

Owner—Withheld.
Architect—F. Eugene Barton, Crocker Bldg., San Francisco.

Bids will be taken about January 15. Steel sash, steel rolling doors, composition roofing, skylights, etc.

Plans Being Prepared.
REMODELING Cost, \$—
SAN FRANCISCO. S Post Street bet. Grant Ave. and Kearny St.
Remodel present building for sporting goods house.

Owner—A. Carlisle Co., Upland and Rutledge, 135 Post St.
Engineer—Fred Whitton, 369 Pine St.
Lessee—Shreve & Barber, 441 Kearny Street.

THEATRES

Planned.
REDECORATIONS Cost, \$—
SAN FRANCISCO. 1125 Market St. (Embassy Theatre).

Redecorate the theatre (new marquis, signs, etc.)
Owner—Warner Bros., Inc., 243 Golden Gate Ave.

Plans by Eng. Dept. of Owner.
Mgr. of Const.—J. Agnew, premises.

Bids in Under Advertisment.
ALTERATIONS Cost, \$50,000
OAKLAND, Alameda Co., Cal. 1445 23rd Avenue.

Alterations to class C steel frame and concrete theatre (wood joists).
Owner—Golden State Theatre & Realty Co., 25 Taylor St., San Francisco.

Architect—Reid Bros., 105 Montgomery St., San Francisco.

WHARVES AND DOCKS

LONG BEACH, Cal.—R. R. Bishop, 5017 East Broadway, Long Beach, at \$104,912.12 awarded contract by city council to furnish all plant and appliances for construction of a creosoted timber wharf and stone berm at timber wharf and stone berm at Berths Nos. 1, 2, 3 and 12 and for dredging and filling Outer Harbor.

MISCELLANEOUS CONSTRUCTION

Mechanical Bids Wanted.
UNDETRAINED FELLOWS \$40,000
SAN FRANCISCO. Sacramento Street bet. Van Ness Ave. and Polk St.
Three-story frame and stucco undertaking establishment and apartments.

Owner—Jos. Hagan, 178 Sacramento.
Architect—Henry C. Smith and A. R. Williams, Humboldt Bank Bldg.

Bids are being received on plumbing, electric, heating, etc. General bids are held under advisement.

UKIAH, Mendocino Co., Cal.—Until January 7, 8 P. M., bids will be received by Fred L. Bosworth, city clerk to furnish f.o.b. cars, Ukiah, two 5,000-cu. ft. riveted gas tanks, 6-ft. dia.

by 30-ft. long, ¾-in. shell and ¾-in. heads. Equipped with one 11x15-man hole in head, three 2-in. forged steel flanges, one 4½-in. dial pressure gauge, designed for 90 lb. per sq. in. working pressure and building in accordance with A. S. M. E. Code for Unfired Pressure Vessels.

Certified check 10% required with bid. Specifications obtainable from clerk.

LOS ANGELES, Cal.—The Los Angeles city council planning committee has under advisement recommendation of city planning commission for zoning of property in the vicinity of Gower and Waring Sts. to permit the R. K. O. Studios to erect a Class A film laboratory. The estimated cost of the building is \$1,000,000.

Plans Being Prepared.
GRANDSTAND Cost, \$—
POMONA, Los Angeles Co., Cal. County Fairgrounds.

Steel and concrete grandstand (to seat 10,000).

Owner—County of Los Angeles.
Architect—Karl Muck, County Architect, Hall of Records Bldg., Los Angeles.

Plans Being Completed.
CHAPEL Cost, \$18,000
SAN ANSELMO, Marin Co., Cal.

Two-story and basement frame and stucco chapel for undertaking establishment.

Owner—Withheld.
Architect—N. W. Sexton, deYoung Bldg., San Francisco.

Plans Being Prepared.
STAGE TERMINAL Approx. \$15,000
VALLEJO, Solano Co., Cal. Sonoma Street.

One-story hollow tile stage terminal (waiting room, rest rooms, ticket offices, baggage rooms, loading concourse and garage).

Owner—Pacific Greyhound Lines, 9 Main St., San Francisco.
Plans by Chas. Dawe, 2154 Vine St., Berkeley.

Bids Wanted—To Be Opened Jan. 2.
ALTERATIONS Cost, \$25,000
OAKLAND, Alameda Co., Cal. Telegraph Ave. near 29th St.

Alterations and additions to two-story and basement brick veneer residence for mortuary and chapel.

Owner—Grant D. Miller, 2368 E-14th St., Oakland.
Architect—Miller & Warnecke, Financial Center Bldg., Oakland.

Construction Postponed Indefinitely.
HOSPITAL Cost, \$10,000
BERESFORD, San Mateo Co., Cal.

One- and two-story frame and stucco animal hospital.

Owner—Dr. Harold H. Groth, El Camino, Beresford.
Architect—Harold Stoner, 220 Third Ave., San Mateo.

SAN FRANCISCO—Graybar Electric Co., 150 9th St., at \$7,000 submitted low bid to Leonard S. Leavy, city purchasing agent, to furnish and deliver apparatus required by the Department of Electricity for the equipment of a radio transmitting station for the Police and Fire Departments. Electric Lighting Co. only other bidder at \$8,269. Taken under advisement.

SAN FRANCISCO.—Pacific Coast Steel Co., 215 Market St., at \$1,785 submitted low bid to Leonard S. Leavy, city purchasing agent, to erect radio towers for the Department of Electricity. Federal Ornamental Iron & Bronze Co. only other bidder at \$2,830.

MISCELLANEOUS SUPPLIES AND MATERIALS

FRESNO, Fresno Co., Calif.—See "Streets and Highways," this issue; bids wanted by Fresno county supervisors to furnish and deliver not less than 125,000 bbls. or more than 175,000 bbls. road oil.

OAKLAND, Cal.—Until January 5, 8:30 A. M., bids will be received by J. J. Kimball, secretary, East Bay Municipal Utility District, 512 16th St., to furnish and deliver:
(a) 200,000 gals. of gasoline;
(b) 25,000 gals. kerosene;
(c) 10,000 gals. lubricating oil.
Specifications obtainable from above.

BUSINESS OPPORTUNITY

Names and addresses of persons or firms concerned in these opportunities will be furnished on request to Business Opportunity Department, Daily Pacific Builder, 547 Mission St., San Francisco, or phone GA 8744:

20708—Dishwashing Machines. San Francisco. French manufacturer of dishwashing machines would like to make connections with San Francisco importer.

20711—Metal Sheets—Duesseldorf, Germany. Manufacturer of refined metal sheets wishes local representation.

20712—Tools. Esslingen, Germany. Manufacturer of high-grade tools desires to contact importers in this vicinity.

20713—Tiles. Dresden, Germany. Manufacturer of tiles wishes representation here.

20721—Representative. Los Angeles, Calif. Party would like to act as manufacturers' representative for local manufacturers in Shanghai, China.

D-3636. Sales Representative. Buffalo, N. Y. Firm desires resident representative in San Francisco to handle the sale of an electric floor machine used for scrubbing, waxing, polishing, sanding and grinding of floors and for the floating of cement floors, on commission basis.

D-3637. Representation. Dayton, O. Firm manufacturing a che wing gum wishes to secure representation in San Francisco, someone in a position to sell the jobbing trade.

D-3638. Representation. Brooklyn, N. Y. Manufacturer of elevators and dumbwaiters desires to secure representation in San Francisco for the sale of his goods, to architects and contractors.

D-3639. Sales Outlet. Oakland, Cal. Manufacturers of gas heating appliances, maintaining sales forces and agencies, wish to secure additional lines to sell along with their own product. They have trained sales forces as well as trained mechanics.

D-3642. New England Distribution. Manchester, Conn. Firm in East has large warehouses connected by spur track, and would like to represent San Francisco firm in that territory in order to use these facilities.

D-3643. Eastern Representation. New York City. Firm in East who will stock merchandise in New York, carry all accounts and discount bills, wishes to secure representation of San Francisco firms, desiring this type of service.

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The Pacific Odorless Incinerator Company which has proposed to build and operate an incinerator in Portland, Oregon, on a site furnished by the city, and take payment out of the by-product obtained from garbage, take the opportunity opened by the protests of various communities over any site within their districts being considered for location of a new incinerator, to emphasize to the council that the system proposed to be employed by it is absolutely odorless.

ARCHITECTS FAIL IN DUTY TO PROMOTE BUILDING SAFETY

Architects are failing in their duty to promote building safety, it is charged in a report of the Committee on Health and Safety of the American Institute of Architects, of which Samuel R. Bishop of New York is chairman.

Though a safety code has been compiled by the committee and adopted by other groups, architects have accorded it scant consideration, it is asserted. "We are criticized by the U. S. Department of Labor for keeping it locked in our desks, and accused of hiding our light under a bushel," declares the committee in announcing plans to stir architects throughout the country to the need of "putting into practice what we preach."

"Construction accidents are a serious problem, and the building construction industry holds the unenviable distinction of being the cause of more deaths than occur in any other branch of work," the report says.

"The most serious accidents occur in the larger cities. In New York City last year the average cost per case was \$474 as compared with \$441 in the State as a whole. The State of New York made compensation awards on 104,848 accident cases last year, paying \$35,000,000, or \$3,000,000 more than in the previous year. The average cost per case each year was practically the same. The most costly accidents both in total cost and average cost per case were in the construction industry.

"Architects enjoy reciprocal relations with the master craftsman in many directions, yet they have refrained from participating in the movement to establish safe working conditions and to eliminate the greatest source of economic waste.

"Some contracting organizations have prepared manuals and have adopted rules of safety, but these measures affect only their own members, and consequently have little in-

fluence on the industry as a whole. By this attitude these organizations have been responsible in a measure for the legislation that has been forced upon them in various states.

"The code framed by the Committee on Health and Safety of the American Institute of Architects has been adopted by the Industrial Commission of the State of Arizona and New Jersey. It has become a section of the new building code of Cincinnati; paragraphs have been taken from it for insertion into the section on safety in the proposed new code for the City of New York, and it has been referred to by the committee engaged in revising the Industrial Safety Code of the State of New York.

"In fact, it is known as the architect's code, despite the meagre response it has awakened among architects. The architect does not advocate legislation. He is taking no part in the enactment of legislation. He need only encourage the erection and maintenance of appropriate safeguards for workers in operations under his supervision.

"The aid of the architect is necessary, for notwithstanding the educational methods employed by such organizations as the Associated General Contractors of America, and the existence of such safety codes as have become state laws, accidents are not decreasing."

Other members of the Health and Safety Committee of the Institute are:

Victor Abel, Philadelphia; Theodore I. Cne, New York; Albert Farr, San Francisco; Carl F. Gould, Seattle; Louis A. Walsh, Waterbury, Conn.; Carl E. Heimbrodt, Western Springs, Ill.; Joseph W. Holman, Nashville; Dnn A. McLaren, Minneapolis; E. C. Wachendorff, Atlanta.

A proposal to form the West San Joaquin Irrigation District, comprising 210,000 acres in Fresno, Merced and Stanislaus Counties, was defeated at a recent election.

Send for a Sample Copy
of the New

DAILY PACIFIC BUILDER

The only daily construction newspaper affording complete coverage of the construction activities in Central and Northern California — featuring work contemplated, bids wanted, bids opened, contracts awarded, sub-bids wanted and sub-contracts let on all types of building construction; bridges, dams and harbor works, irrigation projects; machinery and equipment; water works and supplies; business opportunities; building permits; building contracts, mechanics' liens; acceptances, etc., etc.

Keep informed on construction developments in Central and Northern California, and the major projects in Southern California, the states of Oregon, Washington, Nevada and Arizona.

Engineering News Section

BRIDGES

VENTURA. Ventura Co., Cal.—Until 10 A. M., Jan. 20, bids will be received by the county to construct bridge over Revolon Slough on E 5th St., east of Oxnard about four miles. Cash contract No. 711. L. E. Haulowell, county clerk. Chas. W. Pettit, county surveyor.

BERKELEY. Alameda Co., Cal.—Lee J. Immel, 1031 Evelyn St., Berkeley, at \$1691.60 awarded contract by city council to construct culvert in Codornices Creek at Glen Ave. Project involves: 60 lin. ft. 6-ft. by 6-ft. culvert.

SANTA ROSA. Sonoma Co., Cal.—Rocca & Coletti, San Rafael, at \$151,255 submitted low bid to Joint Highway District No. 16 to construct steel bridge over the Russian River, 1½ miles above Jenner, involving two 145 ft. steel deck truss spans and nine 60 ft. steel girder spans with concrete deck and steel H beam piling and two concrete abutments, one 40 ft. and another 30 ft. Project involves:

- (1) 58,000 cu. yds. roadway excav.
- (2) 27,000 sta. yds. overhaul;
- (3) 6,000 ft. property fence;
- (4) 10 gates;
- (5) 116 ft. 12-in. corr. pipe;
- (6) 70 ft. 24-in. do.;
- (7) 180 ft. 30-in. do.;
- (8) 17 cu. yds. "A" conc. (culverts);
- (9) tremie;
- (10) bridge complete.

Rocca and Coletti bid is approximately \$5,000 above estimate of J. B. Platt, engineer, Daugherty-Shea Bldg. Santa Rosa. Fred J. Maurer, Eureka, only other bidder at \$165,000. Unit bids follow:

Rocca & Coletti	F. J. Maurer
(1) 32c	32c
(2) 2c	3c
(3) 10c	10c
(4) 18.00	18.00
(5) 2.00	2.00
(6) 3.75	3.75
(7) 6.00	6.00
(8) 16.10	16.00
(9) 10.00	20.00
(10) \$151,255	\$165,000

Bids taken under advisement for 1 week.

DREDGING, HARBOR WORKS & EXCAVATIONS

PETALUMA. Sonoma Co., Cal.—Until January 6, 3 P. M., bids will be received by U. S. Engineering Office, Customhouse, San Francisco for dredging in Petaluma Creek. Project involves 73975 cu. yds. Specifications obtainable from above office.

SUISUN. Solano Co., Cal.—Until January 6, 3 P. M., bids will be received by U. S. Engineer Office, Customhouse, San Francisco, for dredging in Suisun Bay, involving 521,240 cu. yds. Specifications obtainable from above office.

SAN RAFAEL. Marin Co., Cal.—Until January 6, 3 P. M., bids will be received by U. S. Engineer Office, Customhouse, San Francisco, for dredging in San Rafael Creek. Project involves 42,115 cu. yds. Specifications obtainable from above office.

LONG BEACH. Cal.—R. R. Bishop, 5017 East Broadway, Long Beach, at \$104,912.12 awarded contract by city council to furnish all plant and appliances for construction of a cressonet timber wharf and stone berm at Berths Nos. 1, 2, 3 and 12 and for dredging and filling Outer Harbor.

MONTEREY. Monterey Co., Cal.—Bids will be called early in 1931 by the U. S. Engineer, San Francisco, for the construction of a rock mound breakwater at Monterey harbor, Monterey county, to provide a fishing boat anchorage. The proposed breakwater, for which plans are under way, will extend 1300 ft. north from a point near the west line of the Presidio of Monterey. The project involves over 150,000 tons of rock and a concrete cap. An appropriation of \$610,000 is available. Major E. H. Ropes, Corps of Engineers, U. S. Army, is district engineer at San Francisco.

LOS ANGELES. Calif.—Bids for dredging of Los Angeles and Long Beach harbor will be called by the office of the U. S. Engineer, 751 S. Figueroa St., soon after Dec. 31. These projects are included in the \$750,000 expenditure planned for Los Angeles, Long Beach and San Diego harbors. The two projects are: (1) removal of the shoal in the local port's east basin, entailing dredging of 782,000 cu. yds. of material; (2) dredging of both the Los Angeles and Long Beach sections of the Cerritos channel to a width of 400 ft. and a depth of 35 ft., thus giving both ports two points of egress.

VENTURA. Ventura Co., Cal.—Plans for a reinforced concrete seawall costing \$300,000 for Pierpont Bay District have been announced by D. A. Rizer, subdivision manager for Frank Melrose Co. at Pierpont Bay. The proposed construction will be about one mile in length and will be from 12 to 20 ft. in depth, extending 7 to 8 ft. above the high tide line. The west end will be located 500 feet east of the Pierpont Bay bathhouse.

VALE PROJECT. Oregon—W. H. Puckett Co., Boise, Idaho, was low bidder on Schedules 1, 3, 4, 5 and 6 of the Vale project at \$75,323. Bids for this project were opened Dec. 19 by the U. S. Bureau of Reclamation. Low bidders on other parts of the work were:

H. C. Boyer, Ontario, Ore., Schedule 2, \$5800.

Gabbey & McNeill, Boise, Schedules 7 to 11, inclusive, \$32,630.

The next lowest combination was E. T. Fisher, of Stockton and A. Ritchie Co., Baker, Ore., at \$139,927.

This work comprises the construction of sawwork and structures between stations 2060 plus 55 and 2450 of the Vale main canal and the Bully Creek east bench lateral system, Vale project, Oregon, involving:

- (1) 582,350 cu. yds. excav., all classes;
- (2) 25,000 station cu. yds. overhaul;
- (3) 8400 cu. yds. backfill about structures;
- (4) 1890 cu. yds. concrete;
- (5) 118,000 lbs. place reinforcement bars;
- (6) 5590 lin. ft. laying 12, 15, 18 and 24 in. concr. pipe;

- (7) 20,900 lbs. installing gates, gate lifts and structural steel;
 - (8) 22 M. ft. b. m. erecting bridges.
- Materials will be furnished by the government.

IRRIGATION PROJECTS

MERCED. Merced Co., Cal.—Proposal to organize the West San Joaquin Irrigation District, embracing 210,000 acres of land in Merced, Fresno and Stanislaus Counties, failed to carry by a vote of 1,256 in favor and 544 against. A two-thirds majority vote was necessary to carry.

YUMA. Ariz.—An election will be held in the Mohawk Municipal Water Conservation District Jan. 6, 1931, to vote on \$323,000 bond issue for irrigation purposes. Mrs. A. B. Bing is the secretary of the district.

STREET LIGHTING SYSTEMS

PORTERVILLE. Tulare Co., Cal.—City council plans to install ornamental street lighting system in S Main St. bet. Olive and Date Sts. Fred Pease, city engineer, is preparing estimates of cost.

SAN LEANDRO. Alameda Co., Cal.—Until January 7, 8 P. M., bids will be received by city trustees to install street lighting system in S Main St., involving 29 electricolier standards with underground system; estimated cost, \$7,000. Plans obtainable from office of city engineer, 1120 E 14th St., San Leandro.

MACHINERY AND EQUIPMENT

COCO SOLO. C. Z.—Bids will be asked shortly by the Bureau of Yards and Docks, Navy Department, Washington, D. C., for 3-ton electric bridge crane, 1-ton hand operated bridge crane and 1½-ton trolley chain hoist at Coco Solo, C. Z. Specifications (No. 6357), obtainable from above office on deposit of \$10, returnable.

OAKLAND. Cal.—Sherman Tractor & Equipment Co., at \$1695 awarded contract by City Port Commission to furnish and deliver industrial tractor.

SOUTH GATE. Los Angeles Co., Cal.—Until 7:30 P. M., Jan. 6, new bids will be received by the city council for furnishing:

- (1) One 21-passenger bus chassis;
 - (2) One 11-passenger bus body;
 - (3) E. R. Adams, bus superintendent.
- H. C. Peiffer, city clerk. Bids received Dec. 16 were rejected.

SACRAMENTO. Cal.—White Truck Co., at \$3,877 awarded contract by city council to furnish dump truck for city street department.

SACRAMENTO. Cal.—Until Dec. 29, 2 P. M., bids will be received by R. H. Stalnaker, equipment engineer, State Highway Commission, 1805 34th St., Sacramento, for the sale of the following equipment and other materials too numerous to itemize:

One only used White Truck with boom and hoist attachment.

One only used steam boiler, mounted on wheels.

One only used asphalt boiler, 700 gal. capacity, unmounted.

One lot (191) steel and wooden pulleys, solid and split.

Numerous auto and truck parts of several makes and designs.

Auto and truck motors, gas engines, pumps, transformers.

Hotel and camp ranges and stoves, tent heaters and many other articles too numerous to enumerate.

Arrangement for inspection of the above mentioned equipment and materials, which is stored at Mather Field, near Sacramento, should be made at the Department of Public Works, Division of Highways, Headquarters Shop, 1805 34th Street, Sacramento, Calif.

SAN MATEO, San Mateo Co., Cal.

—Until January 5, 8 P. M., bids will be received by E. W. Foster, city clerk, to furnish and deliver:

One 2-passenger coupe;

One 1½-ton truck.

Certified check 5% required with bid. Specifications and further information obtainable from clerk.

HUNTINGTON BEACH, Orange Co., Cal.

—Until 7:30 P. M., January 12, bids will be received by the Huntington Beach Union High School District for furnishing laundry equipment as follows:

ITEM 1.—One 36x62-in. No. 11 iron bearing standard wood washer, type "A" motor driven, cylinder to have one partition, two doors, shell and cylinder to be brass trimmed; equipped with 2½x3 two-way Chace floatless automatic valve.

ITEM 2.—One 30-in. Marathon extractor, vertical motor driven, with type "B" safety cover.

ITEM 3.—One 42x60-in. Premier drying tumbler type "A" M D, with lint retriever.

All the above to be Troy Laundry Machinery Company equipment, or equal, delivered f. o. b. Huntington Beach Union High School.

RAILROADS

HOOVER DAM RAILWAY—Approximate list of quantities as shown on the bid form for the construction of the Hoover Dam Railway for which bids will be received by the U. S. Bureau of Reclamation at Las Vegas, Nevada, 10 A. M., Jan. 12 (previously noted) are shown below. This project will involve 10.23 miles of track, using 90-lb. second-hand or relay rails, extending from Summit where a connection will be made with the Union Pacific Ry. from Las Vegas, to the site of the Hoover Dam. The work is located from 25 to 30 miles southeast of Las Vegas. The specifications (No. 515), state that unless otherwise fixed by the official invitation for bids, the performance bond shall be for not less than 20% of the amount of the bid. The items follow:

- (1) 270,00 cu. yds. excav. for roadbed, common;
- (2) 202,000 cu. yds. excav. for roadbed, rock;
- (3) 574,000 sta. cu. yds. overhaul;
- (4) 221,500 cu. yds. excav. and loading longhaul borrow;
- (5) 384,000 cu. yds. m. hauling and spreading long-haul borrow;
- (6) 26,000 cu. yds. excav. of tunnels;
- (7) 180 M. ft. b. m. erecting permanent timbering in tunnels;
- (8) 700 cu. yds. excav. for structures, common;

- (9) 1000 cu. yds. excav. for structures, rock;
- (10) 5500 cu. yds. backfill about structures;
- (11) 200 cu. yds. concrete;
- (12) 15,000 lbs. placing reinforcement bars;
- (13) 4500 sq. yds. dry rock paving;
- (14) 2500 cu. yds. furnishing, erecting and filling concrete crib walls;
- (15) 1400 lin. ft. laying 24-in. diam. corr metal pipe;
- (16) 100 lin. ft. laying 30-in. diam. corr metal pipe;
- (17) 160 lin. ft. laying 36-in. diam. corr metal pipe;
- (18) 260 lin. ft. laying 42-in. diam. corr metal pipe;
- (19) 180 lin. ft. laying 48-in. diam. corr. metal pipe;
- (20) 550 lin. ft. laying 60-in. diam. corr. metal pipe;
- (21) 25 M. ft. b. m. erecting timber in bridges or trestles;
- (22) 2000 lin. ft. driving piles;
- (10.23 track-miles of laying ties and track;
- (24) 6500 each, applying rail anchors;
- (25) 2 M. ft. b. m. placing crossing planks;
- (26) 20,400 cu. yds. ballasting.

VANCOUVER, B. C.—W. C. Arnett, Vancouver, B. C., awarded the contract at approximately \$260,000 for the construction of 8.5 miles of the Kettle Valley Railway to connect the Okanagan Falls—Oliver line with branch line from South Penticton to Skaha Lake for the Kettle Valley Railroad Co. The work involves the following approximate quantities: 120,000 cu. yds. solid rock excavation; 45,000 cu. yds. loose rock excavation; 155,000 cu. yds. hard-pan excavation; 20,000 lin. ft. of piling.

SUNNYVALE, Santa Clara Co., Cal.—Southern Pacific Railroad, 64 Market St., San Francisco, has advised Congressman Arthur M. Free that the company will construct a line 1½ miles long to the site of the Sunnyvale dirigible base at its own cost.

FIRE ALARM SYSTEMS

SOUTH SAN FRANCISCO, San Mateo Co., Cal.—Until January 19, 7:30 P. M., bids will be received by Daniel McSweeney, city clerk, to install traffic signals at intersection of Grand and Linden Aves., and at Grand Ave. and San Bruno Road. Certified check 10% payable to city required with bid. Work will be financed from Treasury. Specifications on file in office of clerk.

FIRE EQUIPMENT

SACRAMENTO, Cal.—Until Jan. 2, 8:15 P. M., bids will be received by H. G. Denton, city clerk, to furnish one Seagrave or equal Aerial Platform Ladder for use in tree trimming by

City Park Department. Specifications obtainable from above. Certified check 5% payable to City Controller required with bid.

RESERVOIRS AND DAMS

HOOVER DAM—See article on page one of this issue. Bids to be opened in March for construction of the Hoover dam, the appurtenant tunnels and cofferdams and the power plant building.

HOOVER DAM—The contract for the Hoover Dam will provide for completion of the work in 2565 days from April 4, the date tentatively fixed as the time for starting work. Bids for the construction of the dam tunnels, cofferdams and power plant will be opened March 4 as previously reported. Three separate time limits have been set, viz: 1600 days for the diversion of the Colorado river and completion of the foundations for the power plant; 1565 days to complete the main dam up to the elevation necessary for generating power, or 300 ft. from the top; 2565 days or approximately seven years, which will bring final completion in 1938. Under the first time limit, power must be ready to supply the Los Angeles water and power department under its contract, which calls for power by September, 1936. Generating of power will start when water of 495 ft. depth has been stored. Three thousand dollars per day has been set as the penalty for delay. The first mass concrete in the cofferdams must be placed not later than Dec. 1, 1933, and provisions of the specifications call for completion of five-sevenths of the dam must be ready for storage of water by June 15, 1935. As planned in the final drawings which have been approved by Ray Lyman Wilbur, Secretary of the Interior, the dam will be 727 ft. high from bedrock and 580 ft. above the present low water level as it exists today. It will be 650 feet thick at the bottom and 45 ft. at the top. The length is 1180 ft. Approximately 4,400,000 cu. yds. of concrete, 5,500,000 lbs. of reinforcement bars, 1,800,000 cu. yds. open cut excavation, 1,200,000 cu. yds. of earth and rock fill for cofferdams and channel protection will enter into the construction in addition to various other items of equal magnitude.

Congress has appropriated \$108,200,000 for the dam and power plant—\$70,000,000 for the dam and reservoir, and \$38,200,000 for construction to provide 1,000,000 horse-power generating capacity. The power plant, machinery, steel, cement and other materials will be purchased by the government and supplied to the contractor, S. C. Harner, acting chief engineer, Denver, is in charge of construction.

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QUARRY HEIGHTS, C. Z.—Following bids received by Constructing Quartermaster, Quarry Heights, for reservoirs, etc.:

Item 1, excavation for 3d 1,500,000-gal. concrete water reservoirs and to construct reservoir No. 2; 2, add for reservoir No. 3, including all necessary valves, pipe, etc.; 3, furnishing and installing 16-in. c. l. water main from existing main at Corozal to proposed reservoir on Engineer Hill, etc.; 4, do using 12-in. c. l. water main.

Grieblen & Martinez, Inc., Item 1, \$45,836; 2, \$41,317; 3, \$56,228; 4, \$41,812; 180 days.

Alfred Schaff, Item 1, \$6,616; 2, \$53,396; 3, \$62,479; 4, \$50,160; 360 days; W. P. Thurston Co., Inc., item 1, \$42,000; 2, \$34,000; 3, \$46,600; 7, \$35,000; 360 days.

H. B. Nelson Constr. Co., item 1, \$45,000; 2, \$35,000; 3, \$60,000; 4, \$45,000; 300 days.

SEWERS AND SEWAGE DISPOSAL PLANTS

LOS ANGELES, Cal.—Culjak & Zelko, 1358 Bonnie Brea Place, at \$209,530 submitted low bid to Board of Public Works to construct sanitary sewers in Oxnard St. and Van Nuys Blvd., Sunset District.

BEVERLY HILLS, Cal.—Westinghouse Electric & Mfg. Co., 420 S. San Pedro St., Los Angeles, submitted low bid to city council for furnishing 168 ornamental lighting posts to be installed on Santa Monica Blvd. The bids, which were taken under advisement, are as follows:

Westinghouse Electric & Mfg. Co., item (1) \$171.10; (2) \$139; (3) \$173.86; 4, \$228.85; alternate bid on item (1) is \$157.25.

Western Lighting Co. (1) \$218.45; (2) \$186.74; (3) \$281.65; 4, \$341.66; alternate bid on item (1) is \$198.89; (2) 167.17; (3) \$273.12; 4, \$333.18.

Newberry Electric Co. (1) \$217.50; (2) \$157.50; (3) \$211; 4, \$276.
Lalux Mfg. Co. (1) \$218.50; (2) \$178.90; (3) \$267.50; (4) \$416.50.

HILLSBOROUGH, San Mateo Co., Cal.—Town trustees declare intention (20-3) to construct storm sewer system, consisting of 12-in., 15-in., 18-in. and 24-in. concrete pipe sewers; brick manholes and catchbasins. 1911 Act. Hearing Jan. 6. John A. Hoey, town clerk. 33

OAKLAND, Cal.—Until Dec. 31, 12 noon, bids will be received by Frank C. Merritt, city clerk, to construct drainage structures in portions of E 8th St. and E 10th St., and certain streets and avenues adjacent thereto. Project involves:

- (1) 375 ft. 10-in. pipe conduit;
- (2) 352 ft. 12-in. do;
- (3) 536 ft. 15-in. do;
- (4) 320 ft. 18-in. do;
- (5) 930 ft. 24-in. do;
- (6) 300 ft. 15-in. pipe sewer;
- (7) 389 ft. 18-in. pipe sewer;
- (8) 6 manholes, standard tops;
- (9) 4 manholes, inlet top, 34-in.;
- (10) 4 catchbasins, 34-in.;
- (11) 2 catchbasins, 21-in.;
- (12) 4 storm water inlets, 34-in.;
- (13) 5 storm water inlets, 21-in.

Pond in the sum of one-quarter of the contract price required of successful bidder. Specifications on file in office of clerk. Walter N. Frickstad, city engineer.

OAKLAND, Cal.—Until Dec. 31, 12 noon, bids will be received by Frank C. Merritt, city clerk, to construct sewers in portions of Pothill Blvd., 84th Ave., Iris St., Dowling St. and Blanche St. Bond of one-fourth the amount of the contract price required of the successful bidder. Specifica-

tions on file in office of clerk. Walter N. Frickstad, city engineer.

OAKLAND, Cal.—John White, 3214 E 12th St., Oakland, at \$13,948 awarded contract by city council to construct sewer through the property of Mills College and certain highways adjacent thereto, involving:

- 2660 lin. ft. 18-in. pipe sewer, \$3.14;
- 1160 lin. ft. 21-in. do, \$3.53;
- 40 lin. ft. 18-in. pipe sewer with concrete jacket, \$3.64;
- 20 lin. ft. 21-in. do, \$4.03;
- 16 manholes, \$75;
- 3 8-in. drop lampholes, \$15;
- 30 Y branches, \$1.

OAKLAND, Calif.—Martin Murphy, 777 Eighth St., Oakland, at \$5,981 awarded contract by city council to construct sewer in Adeline Street bet. Eighth and 22nd Sts., involving:

- 200 lin. ft. 12-in. pipe sewer, \$2;
- 2164 lin. ft. 15-in. do, \$2.10;
- 1238 lin. ft. 18-in. do, \$3;
- 4 manholes, \$80.

MISCELLANEOUS CONSTRUCTION

SACRAMENTO, Cal.—City council has approved contract between the city and the Southern Pacific Railroad for construction of the proposed H Street Subway, the city agreeing to pay one-half of the cost of the project, estimated at \$90,000, exclusive of paving. The city's share of the project will be financed with funds to be appropriated in the 1932 budget.

SAN FRANCISCO.—February 6 is date set by Board of Supervisors to vote bonds of \$2,500,000 to finance miscellaneous improvements to relieve unemployment. Plans for improvements now being prepared by Bureau of Engineering, Department of Public Works, 3rd floor, City Hall, will provide the following:

Development of Meadows in Golden Gate Park;
Bridle path from Suto Heights to Sea Cliff;

Foot path from Suto Heights to 32nd Avenue;
Foot path around Telegraph Hill;
Driveway in McLaren Park;
Foot path through Sunset Square;
Improve existing roads in Golden Gate Park (widened Stow Lake Drive);
Planting and grading Telegraph Hill;
Improve Aquatic Park, Yacht Harbor and Balboa Park and roadways in Sharp Park in San Mateo County and improve structures, facilities, grounds and equipment of the following playgrounds: Potrero Hill, Ocean View, St. Mary's, Julius Kahn and Funston Annex.

Certain improved routes of road around the shores of Lake Merced, recondition streets and areas in Sunset District bounded by Lincoln Way, Sloat Blvd., 7th Ave. and Great Highway; extension over Clarendon Ave. to 7th Ave.; road around Blue Moun-

tain; Improve Slatley Street Parkway between Alameda and Junipero Serra Bldvs., Bernal Heights Blvd., roadways within and approach of Laguna Honda Home and all such readjustments to substructures, etc.

WATER WORKS

OAKLAND, Cal.—Until Jan. 5, 8:30 A. M., bids will be received by J. J. Kimball, secretary, East Bay Municipal Utility District, 512 16th St., to furnish and deliver:

- (a) 50,000 gals. grade E hot asphalt;
- (b) 4,000 concrete meter boxes;
- (c) 6,000 concrete water meter box covers.

Specifications obtainable from the above.

SACRAMENTO, Calif.—Sacramento Pipe Works, Sacramento, awarded contract by city council to furnish 31 water meters. Bid follows: eight ¾-in. meters, \$15.75 each; eleven 1-in. meters, \$23.10 each; seven 1½-in. meters, \$40 each; 52-in., \$60.

INGLEWOOD, Los Angeles Co., Cal.—Until 8 P. M., Dec. 29, bids will be received by the city council for bell and spigot cast iron pipe, class B, as follows:

- (1) 6000 ft. 4-inch;
- (2) 2000 ft. 6-inch;
- (3) 1000 ft. 8-inch;
- (4) 1000 ft. 10-inch.

Certified check or cashier's check, 10%. Bids to be f.o.b. trenchside or corporate yard, City of Inglewood. Otto Duelle, city clerk.

ST. HELENA, Napa Co., Cal.—Until January 13, 8 P. M., bids will be received by E. R. Palmer, town clerk, to furnish 4000 ft. of class 150, B & S McWane Pacific cast iron pipe and fittings.

SANTA BARBARA, Cal.—Grinnell Co., 520 Mateo St., Los Angeles, awarded contract by city council at \$1.10 per ft. for 1560 ft. 8-in. class B cast iron pipe.

ONTARIO, San Bernardino Co., Cal.—Until 8 P. M., Jan. 5, bids will be received by the city council for furnishing and installing a centrifugal booster pump in Pumping Plant No. 6. Specifications may be obtained from the water superintendent. Cert. check or cashier's check or approved surety company bond, 10%. D. B. Wynne, city clerk.

CARMICHAEL, Sacramento Co., Cal.—Until January 12, 8 P. M., bids will be received by Roy W. Sullivan, secretary, Carmichael Irrigation District, 2509 I St., Sacramento, to furnish and deliver f. o. b. Fair Oaks, Sacramento County, 4300 feet of welded steel pipe. Further information obtainable from above.

CONTRACTORS' MACHINE WORKS

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MADERA, Madera Co., Cal. — City council rejects bids to furnish and install sewage pump at Sewage Disposal Plant and new bids will be considered January 5, 8 P. M. Bids received under last call were:

Industrial & Municipal Supply Co., 7 First St., S. F. \$1812
Fairbanks-Morse Co., S. F. 1947
F. V. Martin, S. F. 2031
DeLaval Steam Turbine Co., San Francisco 2049

Water Works Supply Co., S. F. 2049
Specifications and further information obtainable from city clerk.

BOULDER CITY, Nevada — Pittsburgh-Des Moines Steel Co. (Los Angeles branch, 438 E. 3rd St., Los Angeles) apparently submitted the low bid to the U. S. Bureau of Reclamation at Denver Dec. 12 for the fabrication and erection of two arc-welded or riveted plate steel tanks for water supply, Boulder City, Nevada, Boulder Canyon Project. The bids were: (a) \$24,651, and (b) \$28,700. One tank (a) will be 100 feet in diameter and 34 feet high, with No. 10 gauge sheet steel roof of 2,000,000 gallons capacity, to be erected in Boulder City. The other tank (b) will be 40 feet in diameter and 25 feet high without roof, of 235,000 gallons capacity to be erected at the site of the filter plant about 4 miles east of Boulder City. The estimated quantities of metal work involved are: 2,000,000-gallon tank, 450,000 pounds; 235,001-gallon tank, 36,000 pounds. The tanks will be erected on oiled sand foundations constructed in advance by the government.

REEDLEY, Butte Co., Calif.—Sam Jorgensen, Reedley, awarded contract by city trustees to furnish 10,000 ft. pipe for water system. Contract for valves awarded to Rensselaer Co., San Francisco.

VALLEJO, Solano Co., Cal. — City Engineer T. D. Kilkenny preparing plans for 24-in. and 14-in. water mains connecting up with Fleming Hill reservoir. Estimated cost \$75,000.

BEVERLY HILLS, Cal.—International Filter Co., 108 W. Sixth St., Los Angeles, awarded contract at \$12,755 by city council for furnishing and installing equipment in water treatment plant No. 2.

BEVERLY HILLS, Cal. — Marko Matick, 1436 W. 51st St., Los Angeles, was awarded contract at \$14,700 by city council to install pipe line on Maple Dr., involving 5050 feet of 14-in. class A and B cast iron, or class 100 and 150 centrifugal cast iron pipe line or alternate using double asphaltum dipped and wrapped casing, together with all fittings.

Marko Matick awarded contract by city at \$10,800 for laying of pipe lines to Water Treatment Plant No. 2, involving 900 ft. of 16-in., 2360 ft. of 14-in. and 1125 ft. of 8-in. pipe lines, together with all fittings.

SAN FRANCISCO.—Byron Jackson Co., 55 New Montgomery St., at \$2,966 awarded contract by Board of Public Works to furnish and install electrically driven centrifugal pump with appurtenances at the Mills Field Municipal Airport.

SAN FRANCISCO.—Following contracts awarded by Leonard S. Leavy, city purchasing agent, under Proposal No. 661, to furnish and deliver cast iron pipe, bell and spigot type, tar coated (made in the U. S. A.): 30,000 ft. size 6-in. at \$0.50 per lineal foot. Awarded to American Cast Iron Pipe

Co., Ballou Bldg., 15,000 ft. size 8-in. at \$0.72 per lineal foot. Awarded to National Cast Iron Pipe Co., 671 Mission St.; 15,000 ft. size 8-in. at \$0.42 per lineal foot. Awarded to United States Pipe and Foundry Co., Monadnock Bldg.

STREETS AND HIGHWAYS

SAN FRANCISCO — Until January 15, under Circular No. 15, bids will be received by the Depot Quartermaster, Fort Mason for repairing certain roads at Fort Mason. Specifications obtainable from above.

MENLO PARK, San Mateo Co., Cal. — City council declares intention (20-3) to improve College Ave. and Cambridge Ave. from Arbor Road to El Camino Real; Harvard Ave. bet. University Drive and El Camino Real; University Drive from Middle Ave. to Stanford Ave.; Yale Road bet. Middle Avenue and Stanford Ave.; Princeton Road bet. College and Stanford Ave., including all street intersections. Project involves:

- (a) 30,000 cu. yds. grading;
 - (b) 670,400 sq. ft. 1½-inch emulsified asphalt surface pavement on 4-in. macadam base;
 - (c) 32,000 lin. ft. conc. curb;
 - (d) 220 water service connections.
- 1911 Act. Bond Act 1915. Hearing December 30. Fannie I. Kurtz, city clerk. Bert J. Mehl, city engineer.

OAKLAND, Calif.—M. J. Revanda, 319 Elks Bldg., Stockton, at \$119,633 awarded contract by city council to improve Foothill Blvd. bet. Parker Ave. and Hollywood Blvd. and portions of Jones and Truman Avenues, adjacent to Foothill Blvd. Project involves:

- 486,393 sq. ft. grading, \$0.15;
- 713 lin. ft. conc. curb with steel curb guard, \$60;
- 15,733 lin. ft. concrete curb, \$40;
- 475,428 sq. ft. conc. pave., \$20;
- 654 lin. ft. 2-ft. 3-in. by 3-in. concrete culvert, \$4;
- 200 lin. ft. 10-in. vit. pipe conduit, \$130;
- 96 lin. ft. 12-in. do, \$150;
- 1,114 lin. ft. 15-in. do, \$170;
- 59 lin. ft. 15-in. extra strength reinf. conc. pipe conduit, \$260;
- 67 lin. ft. 18-in. vit. pipe conduit, \$225;
- 202 lin. ft. 21-in. do, \$3;
- 318 lin. ft. 24-in. do, \$4;
- 6 concrete inlets with cast iron top (34-in. openings), \$50;
- 1 storm water inlet (Type A) \$50
- 3 storm water inlets (21-inch opening), \$40;
- 13 storm water inlets (34-inch opening), \$40;
- 5 manholes with standard top, \$60;
- 2 manholes with inlet top (34-in. opening), \$68.
- 1 15-inch lamphole, \$20.

NEVADA COUNTY, Calif.—Frederickson & Watson & Frederickson Bros., Oakland, at \$92,012, submitted low bid to State Highway Commission Dec. 23 to grade 7.4 miles bet 1 mile west of Washington Road and ½ mile east of Summit. Following are the three low bidders: Frederickson & Watson and Frederickson Bros., Oakland \$92,012
Hemstreet and Bell, Marysville 104,420
Morris Knudsen, Boise, Idaho 118,367

OAKLAND, Cal.—Hutchinson Co., 1450 Harrison St., Oakland, at \$24 sq. ft. awarded contract by city council to grade and pave a 30-ft. strip in center line of 14th Ave., bet. E-12th and E-14th Sts., involving 832 sq. ft. pavement, including grading

LAS VEGAS, Nev. — City Attorney F. A. Stevens has been authorized by the city commission to prepare notices of intention for street work included in eleven petitions which have been filed with the board. The petitions call for curb, gutter, grading, and 3 in. gravel surface. One street, Stewart St., must be surfaced with hard materials due to federal government requirements. Fremont St. will also be surfaced with a hard type pavement due to special requests of property owners. The list of streets follows: Sixth St. from Linden to Garces; Seventh St. from Linden to Garces; Eighth St. from Stewart to Clark; Ninth St. from Stewart to Bridger; Tenth St. from the south line of Grandview Addn. to Carson, Mesquite Ave. from Fifth St. to Ninth St.; Stewart St. from Main to Linden to Ogden St. from Fifth St. to Twelfth St.; Fremont St. from Eighth St. to Twelfth St.; Carson St. from Fifth to Tenth St.; Bridger St. from Fifth to Ninth St.; Lewis St. from Fifth to Seventh St.; Clark St. from Fifth to Eighth St.; Garces St. from Eighth to Seventh St.; Garces St. from Fifth to Seventh St.

RIVERSIDE, Riverside Co., Cal.—Inclusion of a total of 804 miles of secondary roads in the state highway system, including five highways in Riverside county, is provided in bills which Assemblyman Kline, of San Jacinto and Senator Nelson T. Edwards, of Orange, will introduce in the 1931 session of the California legislature.

The bills will embody the recommendations of the California highway commission. The 1929 legislature directed the highway commission to make a careful study of the state's roads and ascertain what roads, now maintained by the individual counties, should be included in the system of state maintained.

The Riverside county roads designated for inclusion in the state system would be:

Riverside, Orange and San Bernardino Counties—A 53 mile highway from the southern terminus, No. 43, from the San Bernardino mountains to Newport Beach, via Riverside, Corona and Santa Ana canyon.

A 19 mile highway from Riverside to Beaumont.

A 36 mile highway from Pomona to Temecula, extending through both Los Angeles and Riverside Counties.

A 95 mile highway from Riverside to San Diego, extending from Temecula to the southern city.

Four miles of road from Blythe to the California-Arizona line and 19 miles of the route from Indio to connect with Route 64.

Proposed for inclusion are 171 miles in the north and 633 miles in the southern part of the state, bringing the total mileage of secondary roads to 1949 in the north and 1155 miles in the south. The increase in mileage would adjust the present lack of balance and uneven development of the secondary system in the two ends of the state, the commission said.

OAKLAND, Cal. — City council declares intention to improve portions of E-5th St., E-10th St., 3rd Ave., 5th Ave., 6th Ave. and 7th Ave., involving grade, curbs, corr. iron and concrete culverts, conduits 1911 Act. City will pay 25% of cost from Treasury Hearing January 15. Frank C. Merritt, city clerk. Walter N. Fricstad, city engineer.

OAKLAND, Cal.—Until January 5, 1931 A. M. bids will be received by J. J. Knebel, secretary, East Bay Municipal Utility District, 312 16th St., to furnish labor and materials for repaving approximately 4000 sq. ft. bit street surface. Specifications obtainable from above

PACIFIC GROVE, Monterey Co., Calif.—City council starts proceedings to improve 1st St. from Lighthouse to Laurel; 2nd St. from Lighthouse to Laurel; 3rd, 4th, 5th and 6th Streets from Lighthouse to Mine.

SACRAMENTO, Cal.—Until Dec. 26, bids will be received by H. G. Denton, city clerk, to grade and level roadway, parking area and hangar space at the Municipal Airport. Specifications on file in office of clerk Fred J. Klaus, city engineer.

PACIFIC GROVE, Monterey Co., Calif.—City council declares intention (3316) to improve Evans Avenue bet. Eardley and Central Aves.; Dewey Ave. bet. Evans Ave. and Central Ave.; First St. bet. Lighthouse and Central Aves., and Second St. bet. Lighthouse and Evans Ave., involving cement concrete curbs and gutters; 2-in. asph. concrete pavement on existing base and on certain portions with 3-in. crushed rock base. 1911 Act. Hearing Jan. 2. Elgin C. Hurlbert, city clerk.

PACIFIC GROVE, Monterey Co., Calif.—City council declares intention (3315) to improve Ocean View Ave. bet. Eardley Ave. and Second St., involving cement concrete curbs and gutters; 4-in. asph. concrete pavement and portions with 2-in. asphalt concrete pavement. 1911 Act. Hearing Jan. 2. Elgin C. Hurlbert, city clerk.

OAKLAND, Cal.—Hutchinson Co., 1450 Harrison St., Oakland, at \$24 sq. ft. submitted low bid to city council to grade and pave a 30-ft. strip in center line of 14th Ave. bet. E-12th and E-14th Sts., involving \$392 sq. ft. pavement, including grading. L. D. Immel, Berkeley, only other bidder at \$32 sq. ft.

HAYWARD, Alameda Co., Calif.—Jack Casson, Hayward, at \$5,335.53 awarded contract by city clerk (826) to improve Prospect St. bet. Simon and Warren Sts., and Warren St. bet. Main and Prospect Sts., involving:

- (1) 700 sq. ft. concrete sidewalk;
- (2) 202 lin. ft. 4-in. vit. clay side sewer;
- (3) 34,923 lin. ft. 6-in. full penetration emulsified asph. macadam paving, including grading;
- (4) 54 lineal feet redwood header-board.

Jack Casson, Hayward, (1) \$20; (2) \$1.40; (3) \$1,399; (4) \$50; \$5,335.53.

M. J. Bevanda, Stockton, (1) \$19; (2) \$1.70; (3) \$1.42; (4) \$694; \$5,467.37.

VENTURA, Ventura Co., Cal.—Silveria & Robbins, 468 E. Main St., awarded contract by county at \$10,125 for surfacing approximately two miles of Eliseo Road in Wheeler Canyon with road oil, sand and gravel, 18 feet deep and 5 inches thick, involving 4500 tons of asphaltic surfacing mixture. The price per ton was \$2.25. Southwest Paving Co. bid \$2.35 per ton.

Silveria & Robbins awarded contract at \$9420 for constructing oil macadam shoulders on each side of existing paving on Ventura Ave., between the Ventura Ave. oil fields and La Cross, a distance of four miles, involving 120,000 sq. ft. of 5-inch oil macadam. The price per square foot was 7.85c. Other bids were: H. E. Cox & Son, 10c; Fred W. Nightbert, 10.75c; Southwest Paving Co., 11.6c; Western Motor Transfer Co., 11.9c; Geo. Gardner & Son, 12.5c.

FRESNO, Fresno Co., Cal.—City council declares intention (108-D) to improve Terrace Ave., bet. Palm and Wilson Aves., involving grading; ce-

SAN FRANCISCO.—L. J. Cohn, 1 De Haro St., at \$7,441.70 awarded contract by State Harbor Commission to pave Pier No. 1 and portions of the Embarcadero adjoining Pier No. 1, involving:

- (1) 93,750 sq. ft. 1½-in. Topeka wearing surface;
- (2) 14,000 sq. ft. 2-in. Topeka wearing surface;
- (3) 8,900 sq. ft. 1-in. minimum Topeka wearing surface on depressed track;
- (4) 1,300 sq. ft. 1½-in. Topeka wearing surface on 3½-in. base;
- (5) 150 cubic yards concrete base;
- (6) 3,720 square feet concrete sidewalk;
- (7) reset old curb and construct new curb;
- (8) reconstruct catchbasins.

Following is a complete list of bids, (state to furnish cement):

(a) L. J. Cohn.....	\$7,441.70	(e) Fay Improvement Co.....	\$1,955.76
(b) Eaton and Smith.....	7,887.50	(f) Meyer Rosenberg.....	\$2,229.70
(c) Union Paving Co.....	7,852.20	(g) A. J. Raisch.....	\$4,440.00
(d) Pacific States Const. Co.....	\$8,514.40		

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
(1) .....	.046	.05	.048	.048	.044	.045	.05
(2) .....	.06	.065	.057	.065	.073	.06	.07
(3) .....	.05	.05	.038	.06	.064	.06	.06
(4) .....	.20	.21	.12	.22	.274	.18	.20
(5)	4.50	6.00	8.00	7.00	7.00	5.00	9.00
(6) .....	.11	.10	.15	.12	.168	.11	.10
(7)	150.00	100.00	250.00	200.00	231.00	200.00	151.00
(8)	350.00	200.00	152.00	125.00	217.00	200.00	79.50

OAKLAND, Cal.—John White, 3214 East 12th St., Oakland, at \$13,948 submitted low bid to the city council to construct sewer through the property of Mills College and certain highways adjacent thereto, involving:

- (1) 2600 lin. ft. 18-in. pipe sewer;
- (2) 1160 lin. ft. 21-in. pipe sewer;
- (3) 40 lin. ft. 18-in. pipe sewer with concrete jacket;
- (4) 20 lin. ft. 21-in. do;
- (5) 16 manholes;
- (6) 3 8-in. drop lampholes;
- (7) 30 Y branches.

Complete list of unit bids follows:

(a) John White.....	\$13,948(f)	R. H. Downer.....	\$13,936
(b) R. B. McNair.....	15,964(g)	Martin Murphy.....	18,986
(c) W. J. Tobin.....	17,691(h)	Frederickson & Watson.....	19,197
(d) Oakland Sewer Const. Co.....	18,554(i)	W. J. Schmidt.....	19,967
(e) P. & H. Const. Co.....	18,949		

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
(1)	\$ 3.14	\$3.45	\$4.00	\$4.39	\$4.25	\$3.45	\$3.20	\$4.10	\$3.20
(2)	3.53	4.15	4.60	4.63	4.65	3.85	5.40	5.60	5.30
(3)	3.64	4.50	5.00	5.00	7.00	4.50	6.00	6.00	6.00
(4)	4.03	5.00	5.00	5.50	8.00	5.40	8.00	8.00	7.00
(5)	75.00	94.00	80.00	80.00	100.00	1.20	100.00	75.00	100.00
(6)	15.00	30.00	25.00	25.00	20.00	20.00	40.00	15.00	25.00
(7)	1.00	3.30	2.00	2.70	5.00	2.50	3.00	2.00	2.00

OAKLAND, Cal.—M. J. Bevanda, 319 Elks Bldg., Stockton, at \$119,638 submitted low bid to city council to improve Foothill Blvd. bet. Parker Avenue and Hollywood Boulevard, and portions of Jones and Truman Avenues, adjacent to Foothill Boulevard. Project involves:

- (1) 486,393 sq. ft. grading;
- (2) 713 lin. ft. conc. curb with steel (21) 202 lin. ft. 21-in. do;
- (3) 475,423 sq. ft. conc. pavement;
- (4) 6 concrete inlets with cast iron curb guard;
- (5) 654 lin. ft. 2-ft. 3-in. by 3-in. con-crete culvert;
- (6) 200 lin. ft. 10-in. vit. pipe conduit;
- (7) 96 lin. ft. 12-in. do;
- (8) 1114 lin. ft. 15-in. do;
- (9) 59 lin. ft. 15-in. extra strength re-11½ conc. pipe conduit;
- (10) 67 lin. ft. 18-in. vit. pipe conduit;
- (11) 202 lin. ft. 21-in. do;
- (12) 818 lin. ft. 24-in. do;
- (13) 6 concrete inlets with cast iron top (24-in. openings);
- (14) 1 storm water inlet (Type A);
- (15) 3 storm water inlets (21-inch opening);
- (16) 13 storm water inlets (34-inch opening);
- (17) 5 manholes with standard top;
- (18) 2 manholes with inlet top (34-in. opening);
- (19) 1 15-inch lampole.

1911 Act. City will pay 41% of the total cost from Treasury. Following is a complete list of unit bids received:

(a) M. J. Bevanda, Stockton.....	\$119,638(d)	A. J. Raisch, S. F.....	\$127,827
(b) Central Calif. Roads Co.....		(e) N. M. Ball, Berkeley.....	128,104
(c) Oakland.....	119,900(f)	J. F. Knapp, Oakland.....	128,441
(d) Heafey-Moore, Oakland.....	125,700(g)	J. H. Fitzmaurice, Oakland.....	140,743

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
(1) .....	.015	.03	.037	.03	.025	.025	.035
(2) .....	.60	.53	.60	.60	.60	.60	.80
(3) .....	.40	.30	.40	.40	.35	.40	.50
(4) .....	.20	.19	.186	.20	.21	.21	.22
(5)	4.00	3.83	5.55	5.00	4.60	4.00	5.80
(6)	1.30	1.26	2.00	1.40	1.00	1.25	1.50
(7)	1.50	1.42	2.25	1.60	1.30	1.80	1.75
(8)	1.70	1.68	2.50	2.00	2.00	1.75	2.00
(9)	2.60	2.10	3.25	2.50	2.20	3.00	2.50
(10)	2.25	2.10	2.95	3.00	3.00	2.25	2.50
(11)	3.00	2.73	3.25	3.50	2.40	2.75	2.00
(12)	4.00	3.30	3.75	4.00	3.00	3.25	2.25
(13)	50.00	52.00	40.00	40.00	40.00	30.00	60.00
(14)	50.00	49.00	70.00	35.00	50.00	40.00	60.00
(15)	40.00	42.00	40.00	30.00	40.00	25.00	50.00
(16)	40.00	53.00	50.00	40.00	50.00	40.00	60.00
(17)	60.00	53.00	60.00	50.00	55.00	60.00	50.00
(18)	68.00	69.00	60.00	55.00	30.00	75.00	60.00
(19)	20.00	21.00	20.00	15.00	20.00	30.00	35.00

OAKLAND, Cal.—Martin Murphy, 777 Eighth St., Oakland, at \$8,951 submitted low bid to city council to construct sewer in Adeline Street between Eighth and 22nd Streets, involving:

- (1) 200 lin. ft. 12-in. pipe sewer; (3) 1238 lin. ft. 18-in. pipe sewer;
(2) 2164 lin. ft. 15-in. pipe sewer; (4) 4 manholes.

Complete list of unit bids follows:

(a) Martin Murphy.....																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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ment conc. curbs, gutters and walks; corr. metal culverts with manholes; 24-in. asph. conc. base with 1½-in. asph. conc. surface and liquid asphalt and rock screening surface coat. 1911 Act. Hearing January 8, H. S. Foster, City Clerk. C. C. Van Valkenburg, city engineer.

FRESNO, Fresno Co., Cal.—City Council declares intention (107-D) to improve alley in Block 85 and a portion of Fresno St., involving grading; pave and repave with 4-in. asph. conc. base and 2-in. asph. conc. surface, said surface to consist of binder course 1½-in. thick and sheet asphalt finishing course ½-in. thick, 1911 Act. Hearing Jan. 8, H. S. Foster, city clerk. C. C. Valkenburg, city eng.

SAN FRANCISCO.—Until December 26, 2 P. M., informal bids will be received by State Harbor Commission, Ferry Bldg., to lay asphaltic wearing surface on basalt block pavement in 16th St.; estimated cost, \$2500. Specifications obtainable from Frank G. White, chief engineer, Ferry Bldg.

FRESNO, Fresno Co., Cal.—Until January 2, 2 P. M., bids will be received by D. M. Barnwell, county clerk, to furnish during the calendar year of 1931 not less than 125,000 or more than 175,000 barrels of road oil processed or unprocessed, the pure asphalt bitumen content to be not less than 58 per cent or more than 70 per cent. Bids shall be per barrel in carload lots f. o. b. shipping point same to be designated in all bids, freight to be prepared to all points in Fresno County and to be billed by adding freight to contract price at shipping point. Factors to be considered in awarding bid are the quality of the oil as shown by the bid and the total cost of the oil as ultimately delivered f. o. b. Fresno.

Deliveries shall be made between the first day of June and the first day of November, 1931, at such time as the same are requisitioned by the said Board of Supervisors, provided that contractor shall not be required to deliver more than 40,000 barrels of oil in any one calendar month, nor more than 2400 barrels any one day. One barrel hereunder shall be understood to contain forty-two gallons.

Certified check \$1000, payable to county required with bid. Further information obtainable from Chris P. Jensen, county surveyor.

IMPERIAL-SAN DIEGO COUNTIES Cal.—Until January 7, bids will be received by Imperial-San Diego County Joint Highway District No. 17 for the construction of the first unit of the Julian-Kane Springs Road. The total length is 25.41 miles, of which 13.17 miles are located in Imperial County and 12.24 miles in San Diego County.

The former section will cost \$164,126.58 and the latter \$124,405.60, or a total of \$288,532.18 for this contract. The State will pay one-third and the counties each one-third. The proposed work will consist of grading to a width of 32 ft. and filling to a width of 20 ft., with construction of overflow sections and drainage structures. A permanent pavement is planned as a later improvement. Ernest R. Childs, San Diego County surveyor is engineer for the district, George E. Krueger is secretary and L. H. Aul is chairman. The approximate quantities follow:

- (1) 74,077 cu. yds. excavation;
(2) 128,077 sta. yds. overhaul;
(3) 1725 lin. ft. type A dykes;
(4) 68,131 lin. ft. type B dykes;
(5) 2075 lin. ft. type C dykes;
(6) 2500 lin. ft. type D dykes;
(7) 95,400 lb. B. M. in bridges;
(8) 3000 lin. ft. pilling;
(9) 218 ft. 18-in. corr. iron culvert;
(10) 164 ft. 30-in. corr. iron culvert;
(11) 132 ft. 26-in. corr. iron culvert;
(12) 2800 cu. yds. concrete headwall,
(13) 5500 sq. ft. rock mat

Election of Bancroft Gherardi, vice-president and chief engineer of the American Telephone and Telegraph Company, to the presidency of the American Standards Association was announced at the annual meeting of the Association at the Hotel Astor, New York, December 11. Mr. Gherardi who has been a member of the Association's Board of Directors, will assume the direction of the national and international standardization activities of the organization, a task in which over 2,000 representatives of about 500 national trade, technical, and governmental bodies are engaged under American Standards Association auspices. Mr. Gherardi has been affiliated with the American Telephone and Telegraph Company since 1907, and has been vice-president and chief engineer since 1920. He is past president of the American Institute of Electrical Engineers, and has also served as president of the United Engineering Society.

Cloyd M. Chapman, an engineering specialist of New York City, was re-elected to the vice-presidency of the Association for the year 1931. Mr. Chapman entered the employ of Thos. A. Edison in 1899 as assistant in his private laboratory on experimental work. He has been engineer for Westinghouse, Church, Kerr and Company in the line of design and construction work and as engineer of tests. His work has included the design and construction of a number of important central stations and industrial plants.

The Board of Directors of the Association for the next year will include Quincy Bent, vice-president, Bethlehem Steel Co.; George K. Burgess, director, U. S. Bureau of Standards; Cloyd M. Chapman, Consulting Engineer; C. L. Collins, president, Reliance Electric & Engineering Co.

Howard Conley, president, Walworth Company, L. A. Edging, president, Illinois Central Railroad, R. E. MacKoy, president, Improved Products Corporation, W. J. Scerril, United Gas Improvement Company, M. S. Sloan, president, New York Edison Co. and Affiliated Companies, R. J. Sullivan, vice-president, Travelers Insurance Company.

Cloyd M. Chapman will, it was announced, also be chairman, and John C. Parker, vice-president of engineering of the Brooklyn Edison Company, will be vice chairman of the ASA Standards Council, the body in charge of the technical work of the Association.

Mr. Gherardi succeeds in the presidency, William J. Scerril of the United Gas Improvement Company of Philadelphia, who has held this office since 1928.

Hollow columns and floor girders designed to accommodate all pipes and wire services, which are thus concealed but are readily accessible for inspection, alteration or repair constitute a strikingly novel structural feature in the new steel-frame building for the engineering and research department of the A. G. Smith Corp. plant at Milwaukee, Wis. Unobstructed floor areas, walls composed largely of glass, easy connection to any utility service at any part of a floor, and provision for future alterations and interior rearrangement of rooms or laboratories to suit changing requirements are other important features. The glass frontage is also an architectural feature, arranged as a triangular bay window in each panel. For the vertical spaces between the windows and for the shallow spandrels the exterior finish is of aluminum, the only masonry being buff stone for the corners and a base course of black stone.

Directors of Gladding, McBean & Co. have voted the regular quarterly dividend of 75 cents per share on the company's stock, payable January 1, to stockholders of record December 30.

The opening gun in an organized war on obsolete ordinances has been touched off by the Oil Heating Institute with the announcement that American home owners are carrying an annual burden of more than \$10,000,000 imposed by obsolete restrictions on household heating equipment alone. At the same time it was revealed at the Institute's headquarters that leaders of many other lines of industry which are similarly affected had joined with the Institute in a drive for the modernization of these regulations.

The home owner's burden on heating equipment, says the Institute, is imposed by well meaning but obsolete ordinances requiring certain methods of installation and certain added equipment both of which are made unnecessary by improvements in domestic heating equipment. Ordinances have failed to keep step with the progress of the industry.

The Institute announces that other building and household equipment industries supporting the movement had taken canvasses for detailed information which could be turned over to the Federal authorities as a basis for concrete action.

In future two instead of three conventions will be held by the M. W. Work Institute of California. The annual meeting will be held in the north in November and a mid-year meeting will be held in the south in May. Additions to the Institute staff will be made as finances permit.

Contracts Awarded

Liens, Acceptances, Etc.

BUILDING PERMITS

San Francisco County

No.	Owner	Contractor	Amt.
1620	Lardner	Moore	1000
1621	Edwards	McCarthy	6500
1622	Lemmon	Mooney	1400
1623	Morris	Owner	6000
1624	Robinson	Owner	30000
1625	Stoneson	Owner	10500
1626	Christensen	Owner	4000
1627	Connor	Coburn	3200
1628	Cattenolle	De Velbiss	1500
1629	O'Brien	Irwin	6500
1630	Finegan	Owner	7000
1631	Meyer	Owner	5000
1632	Mikusik	Castle	3000

ALTERATIONS

(1620) 2640 LARKIN ST.; alterations for baths and kitchens in flats.
Owner—J. Lardner, 58 Sutter St.
Architect—Not Given.
Contractor—Moore and Madsen, 557 Market St. \$1000

FLATS

(1621) W 14th AVE, 120 S Judah St.; two-story and basement frame (2) flats.
Owner—Dr. Edwards, 919 Judah St.
Plans by Mr. McCarthy.
Contractor—J. E. McCarthy, 1342 Funston Ave. \$6500

REPAIRS

(1622) 867 CAPP ST.; repair fire damage (re-roof).
Owner—A. T. Lemmon, 867 Capp St.
Architect—Not Given.
Contractor—W. J. Mooney, 867 Capp Street. \$1400

DWELLINGS

(1623) N MANGLES 200 W Forester; two 1-story and basement frame dwellings.
Owner—G. H. Morris, 95 Pinehurst.
Architect—Not Given. each \$3000

APARTMENTS

(1624) NW BRODERICK and North Point Sts.; three-story and basement frame (15) apts.
Owner—Robinson & Johnson, 871 31st Avenue.
Architect—Irvine and Ebbetts, 72 New Montgomery St. \$30,000

DWELLINGS

(1625) S NAVAJO 50 E Delano; three 1-story and basement frame dwellings.
Owner—Stoneson Bros & Thorinson, 279 Yerba Buena Ave.
Architect—Not Given. each \$3500

DWELLING

(1626) E 22nd AVE, 315 N Judah St.; one-story and basement frame dwelling.
Owner and Builder—H. Christensen, 1422 27th Ave.
Architect—Not Given. \$4000

REPAIRS

(1627) 330-334 FIFTH AVE.; repair fire damages to flats.
Owner—F. and A. Connor, 2048 Market Street.
Architect—Not Given.
Contractor—I. W. Coburn, 2048 Market Street. \$3200

REPAIRS

(1628) 889 to 899 VALLEJO ST.; repair fire damages.
Owner—M. Cattenolle, 899 Vallejo St.
Architect—Not Given.

Contractor—C. D. De Velbiss, 369 Pine Street. \$1500

ALTERATIONS

(1629) 216 STANYAN ST.; alterations to dwelling for bath, oil burner, etc.
Owner—M. F. O'Brien, 216 Stanyan St.
Architect—Not Given.
Contractor—J. J. Irwin, 1040 Oak St. \$6500

DWELLINGS

(1630) W EXETER 325 S Paul; two one-story and basement frame dwelling.
Owner and Builder—J. Finegan, 3344 Ary St.
Architect—Not Given. each \$3500

DWELLING

(1631) S PORTOLA DRIVE 172 W Miraloma; one-story and basement frame dwelling.
Owner and Builder—Meyer Bros., 727 Portola Drive.
Plans by D. T. Burks, 727 Portola Dr. \$5000

DWELLING

(1632) E LOEHR 25 N Visitacion; one-story and basement frame dwelling.
Owner—H. & A. Mikusik, % builder.
Architect—Not Given.
Contractor—Castle Bldg. Co., 830 Market Street. \$3000

BUILDING CONTRACTS

San Francisco County

No.	Owner	Contractor	Amt.
256	McCarthy	Meyer	7224

RESIDENCES

(256) SW ROCKDALE DRIVE 69 SE line Lot 41 Blk 2947A map Sub No 6 Miraloma Park SE 69 SW 100 NW 58-956 NE 100; all work on two 1-story & basement frame residences.
Owner—The McCarthy Co., 46 Kearny.
Architect—Not Given.
Contractor—Meyer Bros., 727 Portola Drive.
Filed Dec. 18, '30. Dated Oct. 24, '30.
Side and roof sheathing on.....\$1806
Brown coated.....1806
Completed.....1806
Usual 35 days.....1806
TOTAL COST, \$7224
Limit, 90 days. Plans and Spec. filed.

CAPITAL CITY TILE COMPANY

J. C. PALEN

Manager

914 Seventh Street

Sacramento - - - California

COMPLETION NOTICES

San Francisco County

Recorded	Accepted
Dec 19, 1930—E STEINER 79-84 N California St, 2120 Steiner St. A L and Margaret M Marsh to Henry Erickson.....	December 17, 1930
Dec 19, 1930—S PALOU AVE 300 m or 1 E Newhall E 25 x S 100 m or L Richard Godfrey to L H Stevenson.....	December 19, 1930
Dec 17, 1930—N McALLISTER and E Laguna Sts N 100 x E 30. Skelly Estate Co to J J O'Connor.....	December 16, 1930
Dec 17, 1930—S ULLOA ST 32-6 W 14th Ave W 25x100. G O Stalin to whom it may concern.....	December 15, 1930
Dec 16, 1930—LOT 15 ELK 15 Railroad Ave Hd Assn. Wm F Rell to whom it may concern.....	December 15, 1930
Dec 16, 1930—E 25th AVE 175 South Taraval S 25 x E 120. Meyer Bros to whom it may concern.....	December 10, 1930
Dec 16, 1930—NE OAKDALE AVE 150 NW Phelps NW 25 x NE 100 blk 292, O'Neil & Haley Tract. Robert and Agnes Hanlon to Ernest Lombardi.....	December 11, 1930
Dec 16, 1930—730 IRVING ST. Martin Stelling Jr to Y Phillips.....	December 11, 1930
Dec 20, 1930—W STOCKTON 27 N Jackson 37-6 x 68-9. George W Mensor to De Lucca & Son.....	December 19, 1930
Dec 20, 1930—S MAGNOLIA AVE 65 E Webster 27-6x120. Ezio Petri G Perroni & Sons Dec 20, 1930	
Dec 20, 1930—BLOCK bounded by 18th, 19th, Folsom and Shotwell Sts. Pacific Gas & Electric Co to Aristo Painting Co, D N & E Walter & Co, H Bosch, J W Bender Roofing & Paving Co, Otis Elevator Co, Gilley-Schmidt Co, J Michel and W A Pfeiffer, S F Bowser Co, F W Minkel, Jr and W W Lucas, Wise Mfg Co, Monson Bros, H H Larson Co, J O Shea, Inc. United Commercial Co, OH Mann & Co, Calif Steel Prod So, Cyclops Iron Works, Fred W Snook & Co, Ace Sheet Metal Works.....	December 10, 1930
Dec 19, 1930—LOT 25 BLK 2957A map Sub No 3, Miraloma Park W 33rd Ave N 5 N Vicente N 75 x W 120. Meyer Bros to whom it may concern.....	December 17, 1930
Dec 19, 1930—N McALLISTER 100 E Octavia E 100 x N 137-6 L Hoffman to Spivock & Spivock.....	December 19, 1930
Dec 19, 1930—LOT 16 BLK 22, map Crocker Amazon Tract. John Dall to whom it may concern.....	December 18, 1930
Dec 22, 1930—S VICENTE ST 57-6 and 82-6 W 16th Ave 25x100 Carl and Fred Gellert to whom it may concern (two completions).....	December 22, 1930
Dec 22, 1930—N FRANCE AVE 125 E Athens 25x100. Gus G Johnson to whom it may concern.....	December 25, 1930
Dec 22, 1930—N NORTH POINT ST 85 E Broderick St N 52-6, 2270 North Point St. Robinson and Johnston to whom it may concern.....	December 22, 1930
Dec 22, 1930—LOTS 1 and 2 BLK 3278, map Mt Davidson Manor. G W Morris to whom it may concern.....	December 18, 1930

Dec 22, 1930—NE WESTGATE DR and Darien Way 119 or Westgate Drive x 70 S and 90 W to Darien Way, S H Anderson to whom it may concern. December 20, 1930
Dec 20, 1930—E THIRID AVE 200 N Clement St 25x120. A and R H Branch to whom it may concernDecember 20, 1930

LIENS FILED

San Francisco County

Dec. 15, 1930—S FILBERT 115 E Taylor E 22-6x8 \$5 Fred Howard vs Emanuel V Maggio.....\$200
Dec 17, 1930—100 on OCEAN AVE 100 from Alission St SW to Ruth St 135 NE th S Ocean Avenue. H J De Vries vs F Murphy and G Logarmarsino.....\$31.67
Dec 19, 1930—W FIFTH AVE 355 N Lake 30x120. A Cook vs M A Birdsall and W Knickerbocker.....\$327.90
Dec 19, 1930—525 MARKET Street. Robt Fleanor, \$72; F Morse, \$100; 50; J Wallace, \$72, vs Crocker Estate and J D Tucker.....\$244.50
Dec 19, 1930—W DE HARO 191 S of inter NW 20th and De Haro S 25 x W 100. Hanson Bros vs John Rud Anna Rud Romethin.....\$300
Dec 18, 1930—E NINTH AVE N Noriega N 25 x E 120. S P Glass Co, \$89.21; O G Windell, \$133; California Concrete Co, \$185, vs II S Klingspor

RELEASE OF LIENS

San Francisco County

Recorded	Amount
Dec 19, 1930—E GILBERT 180 N Erannan N 25 x E 80. Golden Gate Atlas Materials Co to J M Piconi	

BUILDING PERMITS

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
1520	Diener	Owner	1100
1521	Hoskins	Bertel	3200
1522	Fullock	D e Velbiss	5500
1523	Dalkey	Owner	4000
1524	Devey	Henderson	5500
1525	Flagg	Watson	2750
1526	Graves	Rose	1000
1527	Hutchinson	Nagal	4000
1528	White	Owner	2000
1529	Olsen	Owner	12200
1530	Minney	Lyon	2900
1531	City of Alameda	Owner	1400
1532	Dowling	Owner	3500
1533	Hayes	Haulman	5000
1534	Havens	Shnaldor	1000
1535	Koft	Koft	3500
1536	Mehrtens	Thelle	3850
1537	Texas	Owner	5000
1538	Milton	Sconyers	3000

RESIDENCE

(1520) NO. 1123 PAGE ST., BERKELEY. One-story 3-room one-family frame residence. Owner—C. W. Diener, 1131 Page St., Berkeley. Architect—Not Given. \$1100

RESIDENCE

(1521) NO. 2813 PARK AVE., BERKELEY. One-story 5-room 1-family frame residence. Owner—J. R. Hoskins, 3012 Acton St., Berkeley. Architect—Not Given. Contractor—W. E. Bertel, 1400 Ashby Ave., Berkeley. \$3200

SERVICE STATIONS

(1522) SIX COR. MOSS AVENUE and Vernon St. OAKLAND; two 1-story brick and tile service stations.

Owner—W. J. Lullook. Architect—Not Given. Contractor—C. D. DeVelbiss, 354 Hobart St., Oakland. \$5500

ADDITION

(1523) 8 E 14th ST., 100 E 41st Ave. OAKLAND; bulk addition. Owner and Builder—F. H. Dailey, 411 E 14th St., Oakland. Architect—Not Given. \$4000

FACTORY

(1524) 4000 E EIGHTH ST. OAKLAND; two-story factory. Owner—Dewey & Almy Chemical Co., 4000 E 8th St., Oakland. Architect—Not Given. Contractor—H. K. Henderson, 393 40th St., Oakland. \$5500

DWELLING

(1525) W MOUNTAIN BLVD. 60 S Bennett Place, OAKLAND; one-story 5-room dwelling. Owner—J. S. Flagg. Architect—Not Given. Contractor—Wm. Watson. \$2750

REPAIRS

(1526) 1019-33 BROADWAY, OAKLAND; fire repairs. Owner—Alma R. Graves, 623 Beverly Drive, Oakland. Architect—Not Given. Contractor—A. H. Rose, 478 25th St., Oakland. \$1000

(1527) NO. 9 CANYON ST., BERKELEY. Alterations. Owner—Lincoln Hutchinson, 1235 Bolina Ave., Berkeley. Architect—Not Given. Contractor—W. Nagal, 1932 Haste St., Berkeley. \$4000

RESTAURANT

(1528) SE COR. 20th and San Pablo Ave., OAKLAND; one-story concrete restaurant. Owner—White Cabin Lunch Co., 12th and Franklin Sts., Oakland. Architect—Edw. T. Foulkes, 357 12th St., Oakland. \$2000

DWELLING

(1529) 5591 COUNTRY CLUB DR., OAKLAND; two-story ten-room dwelling and 1-story garage. Owner and Builder—J. M. Olsen, 974 Park St., Oakland. Architect—Not Given. \$12,200

DWELLING

(1530) 345 FRUITVALE AVENUE, OAKLAND; one-story five-room dwelling and 1-story garage. Owner—The Minney Company. Architect—Not Given. Contractor—C. D. Lyon, 6501 Buena Ventura Ave., Oakland. \$2900

ALTERATIONS

(1531) CENTRAL AVE AND MOUND St. (Lincoln School), ALAMEDA. Alterations and additions. Owner—City of Alameda. Architect—Not Given. \$1400

DWELLING

(1532) NO. 2803 OTIS DRIVE., ALAMEDA. One-story 5-room frame and stucco dwelling

Owner—S. J. Dowling, 2801 Clay St., Alameda. Architect—Not Given. \$3500

DWELLING

(1533) NO. 575 OAKS BLVD., SAN LEANDRO. One-story six-room dwelling. Owner—J. Hayes, 2156 Vicksburg, Oakland. Architect—Not Given. Contractor—P. H. Haulman, 1213 Broadway, Alameda. \$5000

ALTERATIONS

(1534) NO. 2815 ASHBY AVE., BERKELEY. Alterations. Owner—E. Havens. Architect—Not Given. Contractor—F. J. Shnaldor, 581 El Dorado Ave., Oakland. \$1000

DWELLING

(1535) NO. 808 PACIFIC AVE., ALAMEDA. One-story 5-room frame and stucco dwelling. Owner—Bernita Kopf, 845 Pacific Ave., Alameda. Architect—Ben. F. Kopf, 845 Pacific Ave., Alameda. Contractor—Ben. F. Kopf, 845 Pacific Ave., Alameda. \$3500

DWELLING

(1536) NO. 2438 OTIS DRIVE., ALAMEDA. One-story 5-room frame and stucco dwelling. Owner—H. G. Mehrtens, 1536 Webster St., Alameda. Architect—Not Given. Contractor—E. G. Thelle, 1546 Fourth St., Alameda. \$3850

STATION

(1537) NW PARK AND ENCINAL Aves., ALAMEDA. One-story brick service station. Owner—The Texas Co., 329 S-Broadway, Los Angeles. Architect—Not Given. \$5000

DWELLING

(1538) W MONTICELLO AVE., 175 N Virginia Ave., OAKLAND; one-story 5-room dwelling. Owner—C. E. Milton, 3124 Knowland Ave., Oakland. Architect—Not Given. Contractor—Geo. Sconyers, 74th Ave. and Ney St., Oakland. \$3000

COMPLETION NOTICES

Alameda County

Dec 19, 1930—LOT 20 and pin Lot 19 Blk 654, Boulevard Terrace, Oakland. Grand - Webster Building Corp to Jacobs & Pattianl
December 18, 1930
Dec 20, 1930—1635 BLAKE STREET Berkeley. Henry M and Barbara Takahashi to The Globe Corp
December 13, 1930
Dec 20, 1930—LOT 17 BLK 4, Thousand Oaks Heights, Berkeley. Earle R and Fraye M Converse to whom it may concern. December 17, 1930
Dec 20, 1930—PTN LOTS 3 and 4 Blk 2, Hayward Acres, Eden Twp.

Member Insurance Brokers' Exchange

FRED H. BOGGS
INSURANCE
490 GEARY STREET

Phone FRanklin 9400

San Francisco

William Pruner to Self
 December 19, 1930
 Dec 20, 1930—ITN LOT 15 BLK 16,
 Rockridge Terrace, Oakland. Samuel
 L. Rogers to Clarence D. Rich.
 December 20, 1930
 Dec 19, 1930—3202-64 SCHOOL ST.,
 Oakland. Nick Martino to John
 Passarino.
 December 1, 1930
 Dec 19, 1930—601 EUCLID Avenue,
 Berkeley. J. M. Walker to whom it
 may concern.
 December 15, 1930
 Dec 19, 1930—LOT 12 BLK F, map
 of Mastick Park, Alameda. E. L.
 Layton to Ben T. Kopf.
 Dec 13, 1930
 Dec 19, 1930—729 CENTRAL AVE.,
 Alameda. J. M. Kinley to whom it
 may concern.
 December 11, 1930
 Dec 19, 1930—LOTS 20 and 21 BLK
 2, Brower Tract, Alameda. J. M.
 Kinley to whom it may concern.
 December 10, 1930
 Dec 18, 1930—5514 80th AVE., Oak-
 land. George and Eleanor Dun-
 can, and Folke and Alice Wallin
 to whom it may concern.
 December 17, 1930
 Dec 18, 1930—CROSS CAMPUS Rd.,
 University of California, Berke-
 ley. The Regents of the Univer-
 sity of California to Oakland Pav-
 ing Co.
 December 13, 1930
 Dec 18, 1930—E 40 ft LOT 16 BLK
 12, Thousand Oaks Tract, Berke-
 ley. A. L. Dennison to A. B. Rein-
 ertsen.
 December 15, 1930
 Dec 17, 1930—PPTY known as the
 Wiegman Home Ranch, Alvarado.
 Frederick H. Wiegman to Irwin H.
 Reimers.
 December 10, 1930
 Dec 17, 1930—LOT 168 BLK 182,
 Best Manor Tract, San Leandro.
 May Rezendes to John Young.
 December 13, 1930

LIENS FILED

Alameda County

Recorded	Amount
Dec 19, 1930—N LINE E 14th ST 181-21 E of E 13th Ave, Oakland. M. Winkentbach vs J. R. L. Jones, Melrose Steel Co, Inc.	\$435
Dec 19, 1930—LOTS 29 and 30 BLK 13, map No. 6 Regents Park, Al- bany. J. A. Davis \$425.58; H. C. Hunter, \$359.20, vs J. A. Cantrani.	
Dec 18, 1930—SE APGAR and WEST Sts, Oakland. Wade Hollings- worth vs Sam Brenner, L. Weiss Prenner, Melrose Steel Co Inc.	\$290.50
Dec 18, 1930—S 15th PT LOT 1 BLK 1, Pioneer Homestead Assn, Ala- ameda. Melrose Lumber & Supply Co Inc vs Marques Wiepcke, A. H. Johnson	\$120.99
Dec 18, 1930—LOT 15 BLK 4, Berke- ley Square, Berkeley. Edw. W. Brodrick vs A. E. Longmate aka Arthur E. Longmate, Jessie J. Longmate, J. Harry Smith	\$130.55
Dec 18, 1930—LOT 27 BLK 11, Amended map of Central Park, Berkeley. Herman C. Orth vs C. G. Coates aka Clifford G. Coates, Myrta C. Coates, Robert J. Hale	\$351
Dec 18, 1930—LOT C BLK 55, Ala- ameda Homestead, Alameda. W. F. Colborn doing business as Pacific Coast Roofing Co vs A. A. Arada and Fillmore Arada	\$50
Dec 18, 1930—LOT C BLK 55, Ala- ameda Homestead, Alameda. Tilden Lumber & Mill Co vs B. and Fill- more Arada and A. W. Schneck	\$37.70
Dec 17, 1930—5452 BOND ST., Oak- land. C. F. Olson vs Chas and An- na Blais, Pauline Pellerin, Mrs. L. O. Clark	\$82.55
Dec 17, 1930—LOT C BLK 55, Ala- ameda Park Homestead, Alameda. Jessie Bray vs Anna and Fillmore Arada, A. Schneck	\$394.25
Dec 17, 1930—LOT C BLK 55, Ala- ameda Park Homestead, Alameda. A. W. Schneck vs A. and F. Arada and A. Auslin	\$1700
Dec 17, 1930—LOT C BLK 55, Ala-	

ameda Park Homestead, Alameda.
 E. Wangan, \$123; K. Miller, \$260,
 vs A. and F. Arada

RELEASE OF LIENS

Recorded	Amount
Dec 19, 1930—E VALDEZ ST 220 ft N of 24th St, Oakland. Maxwell Hardware Co, \$35.20; B. Simon Hardware Co, \$267.75, to E. Flen- er, Tillie R. Spear	
Dec 19, 1930—INTER SW FLEM- ING Ave and SE line of High St. Oakland, F. W. Parkhurst to Mabel B. and Walter S. Johnson	\$549.19
Dec 18, 1930—PTN LOTS 29 and 30 Blk 2, Thousand Oaks Heights, Berkeley. Al. M. Pearey to E. R. Converse	\$323

BUILDING CONTRACTS

SAN MATEO COUNTY

SERVICE STATION
 STATE HIGHWAY & OAK GROVE
 Ave., Menlo Park. Move, rebuild,
 grade etc., service station.
 Owner—Associated Oil Co., 74 New
 Montgomery St., San Francisco.
 Architect—Not Given
 Contractor—Dyer Constr. Co., Ray
 Bldg., Oakland.
 Filed Dec. 12, '30. Dated Dec. 5, '30.
 As work progresses..... 75%
 Usual 35 days..... Balance
 TOTAL COST, \$5400
 Bond, \$5400. Surety, Globe Indemnity
 Co. Limit, 15 days. Forfeit, none
 Plans and specifications filed.

LIBRARY

PUBLIC LIBRARY, Burlingame All
 work for heating.
 Owner—City of Burlingame.
 Architect—E. L. Norberg, 580 Market
 St., San Francisco.
 Contractor—James A. Nelson, Inc.,
 10th and Howard Sts., S. F.
 Filed Dec. 16, '30. Dated Sept. 19, '30.
 As work progresses..... 75%
 Usual 35 days..... 25%
 TOTAL COST, \$4180
 Bond, none. Limit, 100 working days.
 Forfeit, \$10. Plans and specifications
 filed.

RESIDENCE

CARALANDS, Hillsborough. All work
 for two-story frame, plaster or
 stucco residence.
 Owner—Charles C. Cherry, 111 Sutter
 St., San Francisco.
 Architect—John Knox Balantine Jr.,
 137 Harlan Place, San Francisco
 Contractor—D. E. Gladstone, 557
 Market St., San Francisco.
 Filed Dec. 17, '30. Dated Dec. 15, '30.
 Roof framed \$124.37
 Interior plastered \$124.38
 Completed \$124.37
 Usual 35 days \$124.38
 TOTAL COST, \$32,497.50
 Bond, none. Limit, May, 1931. For-
 feit, none. Plans and specifications
 filed.

BUILDING PERMITS

SAN MATEO

RESIDENCE, \$10,000; N 100 Lot 66,
 No. 628 Hurlingham St., San Mateo
 owner, Mrs. Annie S. Hanser, 50
 Clark Dr., San Mateo; contractor,
 Albert M. Schutte, 120 Bancroft
 St., San Mateo.
 BUNGALOW, \$7000; Lot 5 Blk 8, No.
 1949 Palm, San Mateo; owner,
 & contractor, Peter Baccelli, 1957
 Palm, Burlingame.

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded	Accepted
Dec. 13, 1930—LOT 19 BLK 27, Mil- brae Highlands. E. J. Hargrave to whom it may concern.	Dec. 12, 1930
Dec. 13, 1930—RAILROAD AVE, San Mateo. Southern Pacific Co to Union Paving Co.	Dec. 10, 1930
Dec. 13, 1930—LOTS 6 AND 23 BLK 1, Jefferson Park. Castle Bldg Co to Henry Horn.	Dec. 10, 1930
Dec. 13, 1930—LOT 12 BLK 1, Easton Jeremiah Kellher to Charles Ham- mer.	Dec. 12, 1930
Dec. 13, 1930—PART LOT 3 BLK 236 Central Park, San Mateo. William E. Griffin to S. B. Goss.	Nov. 28, 1930
Dec. 15, 1930—LOT 68, Husing Sub, San Mateo. Carl R. Davidson to E. Petersen.	Dec. 11, 1930
Dec. 16, 1930—LOT 23 BLK 3, Hunt- ington Park, San Mateo. Frank L. Yost to whom it may concern.	Dec. 25, 1930
Dec. 16, 1930—LOT 46, Brown Tract, San Mateo. J. H. Hahn to Ruben A. White.	Dec. 15, 1930
Dec. 17, 1930—LOT 4 BLK 9, Burlin- game Hills No. 3. W. O. Woodlades to whom it may concern.	Dec. 17, '30
Dec. 17, 1930—PART LOT 20, San Mateo Park. Pacific Mfg Co to Thomas A. Cavanaugh et al.	Dec. 1, 1930
Dec. 18, 1930—PART LOT 4 BLK 4, Questa La Honda. Harriett A. Young to J. J. Connelly.	Dec. 15, 1930
Dec. 18, 1930—LOTS 2 AND 3, Mezes Ranch, Belmont. College of Notre Dame to H. H. MacDonald.	Dec. 17, 1930
Dec. 18, 1930—LOT 19, Woodstock Sub, Hillsborough. G. W. Williams Co to whom it may concern.	Dec. 15, 1930
Dec. 18, 1930—S SAN PEDRO AVE 150 S. S. P. R. right-of-way, Colma. Enrico Bieglio to Carl Carlson.	Dec. 15, 1930
Dec. 19, 1930—PART LOTS 6 AND 7 Brewer Tract, Hillsborough. Geo. G. Montgomery et al to Oswald & Rucker.	Dec. 9, 1930
Dec. 19, 1930—LOT 7 BLK 35, Red- wood Highlands. Thomas Nelson to whom it may concern.	Dec. 19, 1930
Dec. 19, 1930—LOT 46, Brewer Tract, San Mateo. J. H. Hahn to Ruben A. White.	Dec. 15, 1930
Dec. 19, 1930—LOT 7 BLK 10, Dingee Park. T. B. Lanman to Loyde, Jones & Follow.	Dec. 19, 1930
Dec. 19, 1930—LOT 3 BLK 16, Lo- mita Park. L. R. Milne to whom it may concern.	Dec. 17, 1930
Dec. 19, 1930—LOT 29 BLK 5, Hunt- ington Park. Charles W. Chase to whom it may concern.	Dec. 18, 1930
Dec. 19, 1930—SERVICE STATION No. 318. Associated Oil Co to W. L. Hickey & Son.	Dec. 13, 1930
Dec. 19, 1930—LOTS 24, 28 AND 31 Blk 2, Jefferson Park. Castle Bldg Co to Henry Horn.	Dec. 17, 1930

LIENS FILED

SAN MATEO COUNTY

Recorded	Amount
Dec. 13, 1930—LOT 5 BLK 18, Lo- mita Park. W. A. Helman Alias, \$79.55; Colma Mill & Lumber Co, \$194.20 vs A. C. Brandt.	
Dec. 15, 1930—LOT 3 BLK 10, Uni- versity Heights. Progress Lum- ber Co, \$564.25; Merner Lumber Co, \$391.86 vs Albert Bell et al.	
Dec. 15, 1930—LOT 2 BLK 15, Bay View Heights. Progress Lumber Co, \$452; Merner Lumber Co, \$272.25 vs Martin Peterson.	

Dec. 15, 1930—LOT 2 BLK 15, Hay View Heights, San Carlos Lumber Co vs Peterson & Smoot et al\$106.22
Dec. 16, 1930—LOT 3 BLK 10, University Heights, B Bjornson vs Albert W Bell\$175
Dec. 17, 1930—LOT 2 BLK 2, Wooster, Whittion & Montgomery, P E Brand vs Della Clements et al\$132
Dec. 17, 1930—LOT 2 BLK 15, Bayview Heights, San Carlos Feed & Fuel Co vs Peterson & Smoot\$490.44
Dec. 17, 1930—LOTS 20 AND 21 Elk 4, San Bruno Park, Keystone Lumber & Supply Co vs B J Rodondi et al\$507.22
Dec. 18, 1930—LOTS 24 AND 25 BLK 4, Central Park, Marshall Shingle Co vs C W Hinds et al\$175.50
Dec. 18, 1930—LOTS 20 and 21 BLK 4, San Bruno, San Francisco Hardware Co alias vs B J Rodondi et al\$111.31
Dec. 18, 1930—LOTS 14 AND 15 BLK 2, Bayview Heights, Paul Geissler assigned to San Carlos Lumber Co vs Martin Peterson et al\$90
Dec. 19, 1930—LOT 38 BLK 14, Central Park, Edward Selva vs John A Manning et al\$121.15

RELEASE OF LIENS

SAN MATEO COUNTY
Recorded Amount
Dec. 13, 1930 — LOCATION NOT Given, San Mateo Feed & Fuel Co to A C Brandt
Dec. 15, 1930 — LOCATION NOT Given, San Mateo Planing Mill Co to A C Brandt et al
Dec. 16, 1930 — LOCATION NOT Given, United States Radiator Corp to Randle & Diggs
Dec. 19, 1930—LOCATION NOT Given, Marshall Shingle Co to Charlotte Paul Bauer,
BUILDING PERMITS
PALO ALTO
GARAGE, Class C, \$11,000; No. 2098 El Camino Real, Palo Alto; owner, P. Casaurang, 318 Emerson St., Palo Alto; contractor, Geo. Moore.
RESIDENCE, stucco, \$7700; No. 1875 Middlefield Road, Palo Alto; owner and contractor, L. E. Kingham, 432 College Ave., Palo Alto; architect, C. K. Sumner, 760 University Ave., Palo Alto.
RESIDENCE, stucco, \$7700; No. 1880 Fulton St., Palo Alto; owner, E. M. Brickey, 124 Dana St., Palo Alto; architect, C. K. Sumner, 760 University Ave., Palo Alto; contractor, E. M. Brickey, 124 Dana St., Palo Alto.

BUILDING PERMITS

BURLINGAME

RESIDENCE, \$6500; Lot 8 Blk 1, Columbus St., Burlingame; owner, C. A. Dibble, 1114 Broadway, Burlingame; contractor, Jas. Horne, 569 California Drive, Burlingame.

BUILDING PERMITS

SAN JOSE

ALTER frame business building, \$1000; Delmas and Willow Sts., San Jose; owner, Josephine Eschaltler, Premises; contractor, T. H. Herschbach, Twoby Bldg., San Jose
RESIDENCE, 7-room frame, \$7000;

McKendrie St. near Chapman, San Jose; owner, Chas. S. McKenzie, 90 S-Eleventh St., San Jose; architect, Chas. S. McKenzie, 90 S-Eleventh St., San Jose.
RESIDENCE, \$14,000; Sixteenth St. near William, San Jose; owner and contractor, B. H. Walder, Gordon Ave., H. F. D., San Jose.
RESIDENCE, 5-room frame, \$3400; Main St. near Goodyear; owner, Philip Toramino, General Delivery, San Jose; contractor, S. Geracel, 121 Hollywood Ave., San Jose.

BUILDING PERMITS

REDWOOD CITY

APARTMENTS, three-story and basement frame and concrete, \$45,000; No. 141 Whipple Ave., Redwood City; owner and contractor, Bernard J. McCarron.

LIENS FILED

SANTA CLARA COUNTY

Recorded Amount
Dec. 8, 1930—S 30 FT. LOT 5 and N 17 2 1/2 ft. Lot 6 Blks 3 and 4 NR 1 E. Gilroy, H P Atkinson vs Lawrence Vicino\$661.67
Dec. 11, 1930—LOT 5 BLK W, Los Altos Country Club Properties, Sunset Lumber Co vs Jessie R Grant et al\$254.85
Dec. 12, 1930—LOT 5 BLK W, Los Altos Country Club Properties G W Wilson vs Kathryn Nielson\$225
Dec. 12, 1930—LOT 5 BLK W, Los Altos Country Club Properties, Peninsular Roofing Co vs Kathryn Nielson\$437
Dec. 12, 1930—E THIRD ST. 172 N Santa Clara St., San Jose, Phoenix-Simpson Co vs Joseph Newman et al\$562.40
Dec. 15, 1930—LOT 5 BLK W, Los Altos Country Club Properties, D & S Lumber Co vs Jessie R Grant et al\$48.25
Dec. 15, 1930—LOT 5 BLK W, Los Altos Country Club Properties D & S Lumber Co, Inc vs Jessie R Grant and Katharine Nielson\$60.49
Dec. 18, 1930—LOTS 10 AND 11 BLK 25, Palo Alto, C E Ashworth vs Francis E Wagner; Richard Smith and W H Guernsey\$28

RELEASE OF LIENS

SANTA CLARA COUNTY

Recorded Amount
Dec. 17, 1930—LOT 35 BLK 1, Conkling & Co. Subd., San Jose, Wm F Serpa to C V Brown et al.

BUILDING CONTRACTS

CONTRA COSTA COUNTY

GARAGE
N WARD ST. at SW Cor. telephone company's property at Cor. Ferry and Ward Sts. and rmg N 32° 31' W 99.96 ft S 57° 35' W 92° S 19° 02' E 101' to N Ward St. N 57° 31' W 90° E 105' to com. Martinez. All work for one-story steel and brick garage and salesroom.
Owner — E. W. Merrithew, 736 Main St., Martinez.
Architect—Not Given.
Contractor—Wallace Snelgrove, 24th and Esmond Sts., Richmond.
Filed Dec. 16, '30. Dated Dec. 15, '30.
Foundations completed and steel frame up\$4000
Brick work completed\$500
Building completed\$4300

Usual 35 days\$500
TOTAL COST, \$17,200
Bond, 18650 Surety, Indemnity Insurance Co. of North America. Limit, forfeit, none. Plans and specifications filed.

ALTERATIONS
NE EL PORTAL ROAD & COUNTY Highway, being 1 1/2 mi of Rancho San Ramon, Danville. All work for remodeling home.
Owner—L. L. Henricks, Premises.
Architect—Not Given.
Contractor—Beckett & Wright.
Filed Dec. 17, '30 Dated Dec. 13, '30.
TOTAL COST, \$850
Bond, limit, forfeit, none. Specifications only filed.

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded Accepted
Dec. 13, 1930—LOTS 23 AND 24, Purinton Tract, San Jose, Joe Cunei et al to whom it may concern Dec. 11, 1930
Dec. 13, 1930—LOT 12 BLK 63, ReSubd of Seale Addition No. 2, Palo Alto, Andrew W Hoy to whom it may concern Dec. 12, 1930
Dec. 15, 1930—10 ACRES ON N Homestead Road, San Jose, John Perry Camacho et al to whom it may concern Dec. 11, 1930
Dec. 15, 1930—SE CHANNING AND NE Alma St. NE 105 by SE 50 ft. Pt Lot 1 Plk 4, Hard Subd., Palo Alto, J D Campbell to whom it may concern Dec. 12, 1930
Dec. 16, 1930—LOTS 3 AND 4 BLK 4 Hannah Sackett's Twin Oaks Trct Los Gatos, Walter T. Colbath et al to whom it may concern Dec. 6, 1930
Dec. 17, 1930—E VENDOME ST. 100 S Seymour St., San Jose Giuseppe Capurso to whom it may concern Dec. 13, 1930
Dec. 17, 1930—W 50 FT. LOTS 40 & 41, McCreery Subd., San Jose, Frank G Klein to whom it may concern Dec. 16, 1930
Dec. 17, 1930—NE JOHNSON AVE 60 SE line bet. lands of Davis and Swan, Los Gatos, William J Craig to whom it may concern Dec. 15, 1930
Dec. 18, 1930—LOT 14, Alfred James Addition to Naglee Park, Walter M Stevens to whom it may concern Dec. 8, 1930

COMPLETION NOTICES

SONOMA COUNTY

Recorded Accepted
Dec. 10, 1930—LOT 288 BLK 9, Wheeler's 2nd Addition to Santa Rosa, Ida B L and Roland S Solender to W J Lindsay Dec. 6, 1930
Dec. 18, 1930—WHITE-O-RANCHO, about 5 miles SW of Healdsburg F L Dowsett to A M Hildebrandt Dec. 18, 1930

RELEASE OF LIENS

SONOMA COUNTY

Recorded Amount
Dec. 11, 1930—LOTS 2, 3, 4, 5 AND 6 Blk C, McBeth, Turner & Welch's Addition to Santa Rosa, Garnet Rowman to Frank Sealer and Agnes L McCarthy\$57.60
Dec. 12, 1930—51 FT. S BENTON ST. near Morgan St. Santa Rosa, Crestor and Wesson D J Wilson and O R Wilson to John and Alice Arrington and C L Donovon\$500
Dec. 15, 1930—LOTS 2, 3, 1, 5 AND 6 Blk C, McBeth, Turner & Welch's

Addn to Santa Rosa. Santa Rosa Department Sotro to Agnes L McCarthy and Frank Scaler.....\$87.33
Dec. 19, 1930—LOTS 2, 3, 4, 5 AND 6 Blk C, McBeth, Turner & Welch's Addition to Santa Rosa. Pacific Lumber Co to Frank Scaler and Agnes L McCarthy.....\$138.57

COMPLETION NOTICES

SAN JOAQUIN COUNTY

Recorded	Accepted
Dec. 18, 1930—LOT 9 BLK 3, Bjornson Addition, Township of Escalon. F S. Thornton and Albert Peterson, Trustees Masonic Lodge, to John J Cavanaugh.....	Dec. 17, 1930
Dec. 19, 1930—SECTION OF STATE Highway bet Camp and Stockton. C C Carleton (Chief) Dept of Public Works to Larsen Brothers.....	December 16, 1930

COMPLETION NOTICES

MARIN COUNTY

Recorded	Accepted
Dec 15, 1930—LARKSPUR. Geraldo Granucci to E W Ruhl.....	December 13, 1930
Dec. 1930—SAN ANSELMO. K D Traub to Siemer & Kendall.....	December 15, 1930

LIENS FILED

MARIN COUNTY

Recorded	Amount
Dec 15, 1930—FAIRFAX. G M Hyams vs S J Evans, Victor & Paul Bresson, A Wells and Louis Bailey.....	\$430
Dec 18, 1930—SAN RAFAEL. T W Tinkler vs Florence M Rodgers.....	\$164

COMPLETION NOTICES

MONTEREY COUNTY

Recorded	Accepted
Dec 17, 1930—NW BOUNDARY of Lot 1 Block 15, map Homestead Addn. Lowell A Marcus to whom it may concern.....	December 16, 1930
Dec 18, 1930—LOT 5 XLY 15 ft of lot 7 block 101, map of Pacific Grove Retreat. Ralph D Horton to whom it may concern.....	December 17, 1930

LIENS FILED

MONTEREY COUNTY

Recorded	Amount
Co vs Frank Natoli.....	\$285.58
of Villa Del Monte. Tynan Lbr	
Dec 15, 1930—LOT 12 BLK 2, map	

BUILDING PERMITS

MARTINEZ

GARAGE, brick and steel frame, \$17,000; Ward St. E Alhambra St. Martinez; owner, Dr. E. W. Merrihew, 736 Main St., Martinez; contractor, Wallace Snellgrove, 24th and Esmond Sts., Richmond.

BUILDING PERMITS

SACRAMENTO

RESIDENCE, 6-room, \$5000; No. 917 47th St., Sacramento; owner, I. J. Elliott, 3106 2nd Ave., Sacramento; contractor, F. C. Stabshaw, 5210 6th Ave., Sacramento.

RESIDENCE, 13-room, \$8000; No. 4316 H St., Sacramento; owner, John Simmons, 4301 T St., Sacramento.
CHURCH, \$99,000; No. 3842 J St., Sacramento; owner, Roman Catholic Bishop, Premises.
RAISE building, \$2000 ; No. 1000 G St., Sacramento; owner, Fred Relfenberg, 609 11th St., Sacramento
RESIDENCE, 7-room, \$4500; No. 5109 J St., Sacramento; owner, and contractor, Jos. Pesce, 5122 J St., Sacramento.
RESIDENCE, 5-room and garage, \$4000; No. 3948 K St., Sacramento; owner, Thomas A. Scott, 3849 K St., Sacramento; contractor., Madison constr. Co.

COMPLETION NOTICES

SACRAMENTO COUNTY

Recorded	Accepted
Dec. 17, 1930—LOT 412, Elmhurst. John and Gertrude Simmons to whom it may concern.....	Dec. 15, 1930

BUILDING PERMITS

FRESNO

DWELLING and garage, \$3650; No. owner, Taylor - Wheeler, Inc., Power Co. Building, Fresno.
DWELLING, \$2000; No. 3345 El Monte Ave., Fresno; owner, A. E. Callahan; contractor, W. H. Crowley, 429 Elizabeth St., Fresno.
ALTERATIONS and additions, \$1282; No. 1812 Tulare St., Fresno; contractor, Kennedy & Foster Sign Company.
STORE, \$5000; F and California St.-Fresno; owner, Henry Mertz, 810 Archie St., Fresno.
DWELLING, \$1800; No. 2319 Washington Ave., Fresno; owner, H. M. Ruth, 404 Thesta St., Fresno.

COMPLETION NOTICES

FRESNO COUNTY

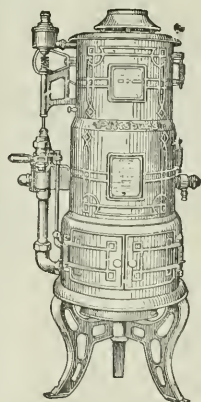
Recorded	Accepted
Dec. 13, 1930—LOTS 19 AND 20 BLK 6, Richmond Center. Fresno, James and Catherine Collins to David Dryden and J B Corbis.....	Dec. 4, 1930
Dec. 15, 1930—RANCHO CANADA del Hambre a tract of land bounded NE Pearce, SE Geary; SW Dias (8 acres), Fresno. E Fordon to whom it may concern.....	Dec. 6, 1930
Dec. 15, 1930—TOWN OF VALONA. James Firpo to Karl S Koller.....	Dec. 10, 1930
Dec. 16, 1930—LOT 18, N ½ LOT 19 Blk 24, Wall's Harbor Center Tract, Fresno. Peter Kanuk to Hugh Cothoudt.....	Dec. 10, 1930
Dec. 19, 1930—LOT 10, Weldon Terrace, Fresno. Anita M Stockton to whom it may concern.....	Dec. 17, 1930

LIENS FILED

FRESNO COUNTY

Recorded	Accepted
Dec. 20, 1930—LOT 6 BLK 34, Sierra Vista Addition No. 2, Fresno. J R Wright, \$65; F H Beavers, \$96; Dolan Co, \$735 vs R H and Katharine Paterson.....	

A total of 92 municipalities throughout the United States have now incorporated sections in their building codes allowing the use of welding in building construction. The most recent was New Orleans which on September 2 adopted its own ordinance for that purpose. New Orleans, with a population of approximately 500,000 is the most populous city to take this action.



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